

2010-2011
GRADUATE CATALOG



BAYLOR
UNIVERSITY

The Graduate School



2010 - 2011 Bulletin • Volume 113 • May 2010



BAYLOR
UNIVERSITY

PURPOSE OF THIS PUBLICATION

This publication provides a description of those programs and activities of Baylor University which are indicated in the title and text. It is not an offer to make a contract.

The administration and faculty of Baylor University believe that the educational and other programs of Baylor University, including those described herein, are effective and valuable, and that they provide skills and/or understanding in keeping with the subject matter of the program.

The ultimate results of programs offered, however, in terms of achievement, employment, professional licensing, or other measure, are also dependent on factors outside the programs, such as the personality and energy of the students, governmental or institutional regulations, and market conditions. Therefore, except as specifically stated herein, Baylor University makes no representation or contract that following a particular course or curriculum will result in specific achievement, employment or qualification for employment, admission to degree programs, or licensing for particular professions or occupations.

It is sometimes necessary or appropriate to change the programs offered. Baylor University retains the right to terminate or change any and all other aspects of its educational and other programs at any time without prior notice.

NOTICE OF NONDISCRIMINATORY POLICY

Baylor University complies with all applicable federal and state nondiscrimination laws, and does not engage in prohibited discrimination on the basis of race, color, nationality or ethnic origin, gender, age, or disability in either employment or the provision of services. The University is controlled by an all-Baptist Board of Regents and is operated within the Christian-oriented aims and ideals of Baptists. Baylor is also affiliated with the Baptist General Convention of Texas, a cooperative association of autonomous Texas Baptist churches. As a religiously-controlled institution of higher education, Baylor University is exempted from compliance with some provisions of certain civil rights laws, including some provisions of Title IX of the Education Amendments of 1972.

EQUAL ACCESS TO UNIVERSITY EDUCATIONAL PROGRAMS

Baylor University provides equal access to all University educational programs to every qualified student. However, if any student requires special personal services or equipment, the student will be responsible for the expenses thereof. This policy includes the expense of providing personal tutors, personal attendants, medical technicians, and so forth. The Office of Access and Learning Accommodation will assist such student in communicating with the proper community or governmental agency to secure any available financial assistance to meet his or her needs.

DIRECTORY INFORMATION

Directory information is that information that is customarily made public without the written consent of the student. However, under the provisions of the Family Educational Rights and Privacy Act of 1974, a student may ask Baylor University not to disclose directory information by making written notice to the Registration and Academic Records Office. Request for nondisclosure will be honored by the University until notified in writing that information should no longer be withheld. **Directory information includes: name, address, telephone number, e-mail address, dates of attendance, classification, University ID card photograph, previous institution(s) attended, major field of study, awards, honors, degree(s) conferred and date(s), full-time/part-time status, earned hours, expected graduation date or degree candidacy, thesis and dissertation titles and advisors, past and present participation in officially recognized sports and activities, physical factors of athletes (age, height, weight), and date and place of birth.**

STUDENT AID INFORMATION

Baylor's student financial aid program of grants, educational loans, and part-time employment is designed to help deserving students meet college expenses.

Students interested in consideration for financial aid should complete the Free Application for Federal Student Aid (FAFSA) online at www.fafsa.ed.gov. Visit the Student Financial Aid Office website at www.baylor.edu/sfs for additional information regarding the financial aid application process.

The provisions of this catalog do not constitute a contract, expressed or implied, between Baylor University and any applicant, student, student's family, faculty, or staff member. Baylor University reserves the right to withdraw courses at any time, or change fees, tuition, rules, calendar, curricula, degree programs, degree requirements, graduation procedures, and any other requirement affecting students. Changes will become effective at the time the proper authorities so determine, and the changes will apply to both prospective students and those already enrolled. This catalog is a general information publication only, and it is not intended to, nor does it contain all regulations that relate to students.

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Mission Statement

(Adopted October 28, 1994)

The mission of Baylor University is to educate men and women for worldwide leadership and service by integrating academic excellence and Christian commitment within a caring community.

Chartered in 1845 by the Republic of Texas and affiliated with the Baptist General Convention of Texas, Baylor is both the state's oldest institution of higher learning and the world's largest Baptist university. Established to be a servant of the church and of society, Baylor seeks to fulfill its calling through excellence in teaching and research, in scholarship and publication, and in service to the community, both local and global. The vision of its founders and the ongoing commitment of generations of students and scholars are reflected in the motto inscribed on the Baylor seal: *Pro Ecclesia, Pro Texana* – For Church, For Texas.

Pro Ecclesia. Baylor is founded on the belief that God's nature is made known through both revealed and discovered truth. Thus, the University derives its understanding of God, humanity, and nature from many sources: the person and work of Jesus Christ, the biblical record, and Christian history and tradition, as well as scholarly and artistic endeavors. In its service to the church, Baylor's pursuit of knowledge is strengthened by the conviction that truth has its ultimate source in God and by a Baptist heritage that champions religious liberty and freedom of conscience. Without imposing religious conformity, Baylor expects the members of its community to support its mission. Affirming the value of intellectually informed faith and religiously informed education, the University seeks to provide an environment that fosters spiritual maturity, strength of character, and moral virtue.

Pro Texana. Integral to its commitment to God and to the church is Baylor's commitment to society. Whereas that society in the mid 1800s was limited to Texas, today Baylor's sphere of influence is indeed the world. The University remains dedicated to the traditional responsibilities of higher education — dissemination of knowledge, transmission of culture, search for new knowledge, and application of knowledge — while recognizing the global proportions these responsibilities have assumed. Moreover, within the context of an ethnically and culturally diverse community, Baylor strives to develop responsible citizens, educated leaders, dedicated scholars, and skilled professionals who are sensitive to the needs of a pluralistic society. To those ends, Baylor provides expanded opportunities for civic education and for church and community service at home and abroad.

Pro Ecclesia, Pro Texana. Baylor University is committed to excellence at the undergraduate, graduate, and professional levels. Within the undergraduate programs, the University seeks to familiarize students with the principal bodies of knowledge, cultural viewpoints, belief systems, and aesthetic perspectives that affect the world in which they live. Within the graduate and the professional programs, the University provides advanced educational opportunities to develop ethical and capable scholars and practitioners who contribute to their academic disciplines, professional fields, and society. Baylor encourages all of its students to cultivate their capacity to think critically, to assess information from a Christian perspective, to arrive at informed and reasoned conclusions, and to become lifelong learners. Beyond the intellectual life, the University pursues the social, physical, ethical, and spiritual development of each student.

Aware of its responsibility as the largest Baptist educational institution in the world and as a member of the international community of higher learning, Baylor promotes exemplary teaching, encourages innovative and original research, and supports professional excellence in various specialized disciplines. Advancing the frontiers of knowledge while cultivating a Christian world-view, Baylor holds fast to its original commitment — to build a university that is *Pro Ecclesia, Pro Texana*.

Historical Highlights Of Baylor University

Baylor University was founded under the leadership of Judge R.E.B. Baylor, Reverend James Huckins, and Reverend William Milton Tryon, three farsighted pioneer missionaries working through the Texas Baptist Education Society. They, along with other associations, sent representatives in 1848 to create the Baptist State Association, which later became the Baptist State Convention.

1845—Baylor chartered on February 1 by the Republic of Texas.

1849—Instruction in law began.

1857—School of Law organized.

1883—School of Law closed.

1920—School of Law reorganized.

1886—Baylor merged with Waco University and moved to Waco.

1903—College of Medicine organized in Dallas by assuming responsibility for operations of the University of Dallas Medical Department.

1943—Moved to Houston.

1969—Given independent status.

1903—College of Pharmacy organized in Dallas.

1930—College of Pharmacy terminated.

1905—Theological Seminary organized in Waco.

1907—Separated from Baylor University.

1910—Moved to Fort Worth.

1918—College of Dentistry organized in Dallas by taking over the State Dental College, founded in 1905.

1971—The College was separately incorporated in 1971, although Graduate programs continued to be offered through Baylor University.

1996—The College became a part of the Texas A&M System on September 1.

1919—Baylor Hospital organized in Dallas, now Baylor University Medical Center.

1919—College of Arts and Sciences organized.

1919—College of Fine Arts organized, which consisted of offerings in music and in expression.

1921—Terminated in favor of the present School of Music.

1919—School of Education organized.

1921—Training School of the Texas Baptist Memorial Sanitarium, originally organized as a diploma-granting program in 1909, incorporated into Baylor University as Baylor Hospital School of Nursing.

1950—The School of Nursing reorganized as an academic unit of Baylor University offering a Bachelor of Science in Nursing degree.

2000—Renamed Louise Herrington School of Nursing in honor of Louise Herrington Ornelas.

1921—School of Music organized.

1923—School of Business organized.

1959—Renamed Hankamer School of Business in honor of Mr. and Mrs. Earl Hankamer of Houston.

1947—Graduate School organized.

Graduate study and degrees have been offered since 1894.

1951—Graduate program in hospital administration established in conjunction with the Army Medical Field Service School, Fort Sam Houston.

1972—Army Medical Field Service School renamed Academy of Health Sciences of the U.S. Army.

2001—Doctor of Science Program in Orthopaedic Manual Physical Therapy added at Brooke Army Medical Center, Fort Sam Houston TX & Doctor of Science Program in Sports Physical Therapy added at the United States Military Academy, West Point NY.

1987—University School organized. Responsibilities reassigned to other academic units in 1992.

1993—George W. Truett Theological Seminary organized in Waco. Seminary classes began in 1994.

1995—School of Engineering and Computer Science organized.

2002—Honors College organized.

2005—School of Social Work granted independent status from the College of Arts and Sciences.

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Martha Lou Scott, B.S., M.P.A., Ed.D. Associate Vice President for Student Life
Vacant.....Dean for Student Learning and Engagement

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James Doak, B.S. Chief of Police

THE GRADUATE SCHOOL

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Sherry G. Sims, B.S.Ed.	Director of Graduate School Office
Uj gmf 'T 0Cf co u' (00000000)	Assistant to the Assistant Dean, Office Manager
Kay Eubank	Assistant to the Associate Dean, Graduate Studies and Professional Development
Sandra B. Harman, B.S.Ed.	Assistant to the Associate Dean, Graduate Studies and Research
Anna Henderson, B.A.	Assistant to the Dean
Jan Nelson	Administrative Assistant
Lori McNamara	Graduate Admissions Coordinator
Loretta Volcik	Graduate Admissions Coordinator

For General Information

One Bear Place # 97264, Waco, TX 76798-7264

Graduate School Applications: (254) 710-3588

Graduate Admissions: (254) 710-3584

Graduate Records: (254) 710-4610

Graduate_School@baylor.edu

OTHER SCHOOLS, COLLEGES, AND INSTITUTES WACO, TEXAS

College of Arts and Sciences

Lee C. Nordt, B.S., M.S., Ph.D.	Dean
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Hankamer School of Business

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Gary R. Carini, B.S., M.P.A., Ph.D.	Associate Dean, Graduate Programs
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Faculty Deveopment
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Michael W. Thompson, B.S.E.E., M.S.E.E., Ph.D.Graduate Director for Engineering

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WACO AND DALLAS, TEXAS

Institute of Biomedical Studies

Robert R. Kane, B.S., Ph.D.Director

DALLAS, TEXAS

Louise Herrington School of Nursing

Judy Wright Lott, D.S.N.Dean
Mary C. Brucker, Ph.D.Associate Dean for Academic Affairs and
Interim Graduate Program Director
Susan Gerding Bader, M.L.S., A.H.I.P.Director of the Learning Resource Center

SAN ANTONIO, TEXAS

U.S. Army Medical Department Center and School

Academy of Health Sciences

Russell J. Czerw, Major General, DCCommanding General,
U.S. Army Medical Department Center and School
Donna S. Whittaker, Colonel, MSDean, Academy of Health Sciences
Josef H. Moore, Colonel, Ph.D. Director, Doctor of Physical Therapy, Entry-Level Program
Lee W. Bewley, Lieutenant Colonel, Ph.D., FACHEDirector,
Health and Business Administration Program

Brooke Army Medical Center

Norman W. Gill III, Major, D.Sc.P.T. Director,
Doctor of Science in Physical Therapy, Orthopaedics

WEST POINT, NEW YORK

U.S. Military Academy

Keller Army Community Hospital

Parry Gerber, Lieutenant Colonel, D.Sc.P.T. Director,
Doctor of Science in Physical Therapy, Sports Medicine

ACCREDITATIONS AND MEMBERSHIPS

Baylor University consists of 11 colleges and schools located in Waco, Dallas, and San Antonio. Baylor University is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award bachelor's, master's, specialist, and doctoral degrees. Individuals who wish to contact the Commission on Colleges pertaining to the accreditation status of the University may write the Commission at 1886 Southern Lane, Decatur, GA 30033-4097, or call (404) 679-4501. In addition, the University and its schools and departments are accredited by, and/or hold membership in, the following organizations:

GENERAL

- The Association of Texas Colleges and Universities
- The Association of American Colleges and Universities
- The American Council on Education
- The Southern University Conference
- The American Council of Learned Societies
- The Texas Council of Church-Related Colleges
- The Association of Southern Baptist Colleges and Schools
- The Lilly Fellows National Network of Church-Related Colleges and Universities
- The American Association of University Women
- The American Society of Allied Health Professions

THE GRADUATE SCHOOL

- The Council of Graduate Schools
- The Association of Texas Graduate Schools
- The Conference of Southern Graduate Schools

COLLEGES AND SCHOOLS

College of Arts and Sciences

- Phi Beta Kappa

Hankamer School of Business

- AACSB International – The Association to Advance Collegiate Schools of Business

- Beta Gamma Sigma

School of Education

- The American Association of Colleges for Teacher Education

- Commission on Accreditation of Allied Health Education Programs

- Holmes Partnership

- National Council for Accreditation of Teacher Education

- Program Accreditation by the State Board for Educator Certification

- Society for Public Health Education-American Association for Health Education

- Kappa Delta Pi

School of Law

- The Association of American Law Schools

- Accredited by the American Bar Association

School of Music

- The National Association of Schools of Music

- The Texas Association of Music Schools

- Pi Kappa Lambda

Louise Herrington School of Nursing

- Accredited by the Commission on Collegiate Nursing Education and the Texas State Board of

- Nurse Examiners

- The Southern Regional Education Board, Council on Collegiate Education for Nursing

- The American Association of Colleges of Nursing

George W. Truett Theological Seminary

- The Association of Theological Schools

DEPARTMENTS AND PROGRAMS

College of Arts and Sciences

American Studies: Member, The American Studies Association and The American Studies Association of Texas

Aviation Sciences: Member, The University Aviation Association

Chemistry: Approved by the American Chemical Society

Communication Sciences and Disorders: Accredited by the Council on Academic Accreditation in Audiology and Speech-Language Pathology of the American Speech-Language-Hearing Association

Communication Studies: Program in Radio—The Association for Professional Broadcast Education; Associate Member, National Association of Educational Broadcasters

Dietetics: Approved by the American Dietetic Association

Family and Consumer Sciences: Accredited by the American Association of Family and Consumer Sciences

Journalism: Member of the Association of Education in Journalism and Mass Communication

Political Science: American Political Science Association

Psychology, Clinical Psychology (Psy.D. Degree): Accredited by American Psychological Association

Mayborn Museum: Accredited by the American Association of Museums

Theater Arts: National Association of Schools of Theater

School of Engineering and Computer Science

Computer Science and Engineering programs may be accredited by the appropriate Commission of the Accreditation Board for Engineering and Technology (ABET) at either the bachelor's or graduate level.

Computer Science: The B.S.C.S. degree is accredited by the Computing Accrediting Commission of ABET.

Engineering: The B.S. programs in Engineering, Electrical and Computer Engineering, and Mechanical Engineering are accredited under the general and respective program criteria by the Engineering Accreditation Commission of ABET.

Graduate School

Health Administration: Accredited by the Commission on Accreditation of Healthcare Management Education (CAHME)

Physical Therapy: Approved by the Commission on Accreditation in Physical Therapy Education of the American Physical Therapy Association

2010-2011 ACADEMIC CALENDAR

SUMMER SEMESTER 2010

Minimester May 17-June 4

Full Summer Session, June 1–August 10

Session I, June 1–July 3

Session II, July 7–August 10

- April 17 - June 2—Registration/schedule changes through BearWeb for Session I and Full Summer.
- April 17 - July 8—Registration/schedule changes through BearWeb for Session II.
- May 2—Summer invoices available online at www.baylor.edu/sfs.
Summer Financial Settlement begins. Pay and confirm attendance online at www.baylor.edu/sfs.
- 16—Last day to register for minimester on Bearweb.
- 17—Class sessions begin for minimester.
- 17—Last day to register for minimester in Registration and Academic Records Office, Robinson Tower, Suite 370.
- 17—Summer bill payment and confirmation due date. (Session I & II) and Full Summer Session.
- 19—Beginning today, students that withdraw from the University for the minimester will receive a grade of WP (Withdraw Passing) in all minimester classes.
- 20—Course dropped after this date for the minimester will be recorded as DP (drop passing) or DF (drop failing), according to the report of the professor.
- 21—Beginning today, students that withdraw from the University for the minimester will receive a grade of WP (Withdraw Passing) or WF (Withdraw Failing), according to the report of the professor of record.
- 27—Courses dropped after this date for the minimester will be recorded as failed.
- 28—Deadline for Summer Financial Settlement. Classes will be cancelled for students that registered prior to May 26 for either Session I, II or Full Summer Session and have not paid and/or confirmed attendance by 5 p.m. If allowed to re-register, a \$100 re-registration fee will be assessed.
- 31—Memorial Day Holiday.
- June 31—Residence halls open at 1 p.m. for Session I.
- 1—Classes begin for Session I and Full Session.
- 1—Late registration begins.
- 3—Last day to register or add courses for Session I.
- 4—End of minimester; final examinations for minimester.
- 5—Students withdrawing from University from Session I beginning this date will receive grades of WP (Withdraw Passing) in all Session I courses.
- 8—Last day to register or add courses running through the full Summer session.
- 8—Last day for graduate students to file for August 2010 Commencement.
- 9—Courses dropped after this date for Session I will be recorded as DP (drop passing) or DF (drop failing), according to the report of the professor.
- 11—Last day to satisfy graduate foreign language requirement for August 2010 Commencement. Refer to baylor.edu/MFL for details.
- 12—Students withdrawing from the Full Summer Session beginning this date will receive grades of WP (withdraw Passing) in all Full Summer Session courses.
- 12—Students withdrawing from Session I beginning this date will receive grades of WP or WF, according to the report of the professor of record.
- 18—Courses dropped after this date for Session I will be recorded as failed.
- 18—Courses dropped after this date for the *full Summer session* will be recorded as DP (drop passing) or DF (drop failing), according to the report of the professor.
- 18—Deadline for *purchasing* doctoral regalia for August 2010 Commencement.
- 19—Students withdrawing from Session I beginning this date will receive grades of WF (withdraw failing).

- July
- 19—Students withdrawing from full summer session beginning this date will receive grades of WP or WF, according to the report of the professor of record.
 - 2—Deadline for Financial Settlement for those that registered for Session II only after May 25. Classes will be cancelled if not settled by 5 p.m. If allowed to re-register, a \$100 re-registration fee will be assessed.
 - 3—End of Session I; final examinations for Session I.
 - 5—Independence Day Holiday
 - 5—Residence halls close at 6 p.m. for Session I residents.
 - 6—Residence halls open at 1 p.m. for Session II residents.
 - 6—Advisement and registration for new students attending Session II. Registration and schedule changes through BearWeb or in the Registration and Academic Records Office, third floor, Suite 370, Robinson Tower.
 - 7—Classes begin for Session II.
 - 8—Last day to take the oral examination (oral defense) for dissertation/thesis candidates for August 2010 Commencement. (All incompletes for course work other than dissertation/thesis hours must be cleared before the oral examination can be taken.) The Preliminary Technical Review is required and must be scheduled at least 2 weeks before the oral examination. Refer to the Guidelines: www.baylor.edu/graduate/edt.
 - 9—Courses dropped after this date for *Full Summer session* will be recorded as failed.
 - 9—Last day to register or add courses for Session II.
 - 10—Students withdrawing from full summer session beginning this date will receive grades of WF.
 - 12—Last day for submission of the Record of Oral Examination form to Graduate School for dissertation/thesis students.
 - 13—Students withdrawing from Session II beginning this date will receive grades of WP.
 - 15—Courses dropped after this date for Session II will be recorded as DP (drop passing) or DF (drop failing), according to the report of the professor.
 - 16—Last day for electronic submission of the departmentally defended and approved copy of the dissertation/thesis to the Graduate School for August 2010 Commencement.
 - 17—Students withdrawing from Session II beginning this date will receive grades of WP or WF, according to the report of the professor of record.
 - 23—Deadline for *renting* doctoral regalia for August 2010 Commencement.
 - 23—Change-of-Grade form to remove incompletes and petitions for transfer of credit for all students and all course work must be received by the Graduate School by this date for August graduation candidates.
 - 26—Courses dropped after this date for Session II will be recorded as failed.
 - 27—Students withdrawing from Session II beginning this date will receive grades of WF.

August

 - 10—End of Session II; final examinations for Session II.
 - 10—Last day for students in non-thesis programs to take the oral or comprehensive examination for August 2010 Commencement. The Record of Oral Examination form, or results from comprehensive exams, must be delivered to the Graduate School by this date (*do not put in campus mail*).
 - 11-13—Administrative check on candidates for graduation.
 - 12—Residence halls close at 6 p.m. for summer session II residents.
 - 13—Doctoral Dinner, 7 p.m., Barfield Drawing Room, Bill Daniel Student Center
 - 14—Residence halls close at 2 p.m. for summer graduating seniors.
 - 14—Commencement, Ferrell Center, 10 a.m. Commencement information is available online at www.baylor.edu/commencement.

July

 - 8—Fall invoices available online at www.baylor.edu/sfs.

FALL SEMESTER 2010, August 23–December 6

April 16 - August 27—BearWeb will be open to all eligible students for registration and schedule changes.

- Fall Financial Settlement begins. Pay and confirm attendance online at www.baylor.edu/sfs.
- August
- 31—Fall invoice payment and confirmation due date.
 - 17—Deadline for Fall Financial Settlement. Classes will be cancelled for students that have not paid and/or confirmed attendance by 5 p.m. If allowed to re-register, a \$100 re-registration fee will be assessed if before class begins; \$150 if after class begins.
 - 18—Graduate School/GSA Orientation in Hooper-Schaefer Fine Arts Center. All day event, watch for details.
 - 19-20—Residence halls and apartments open for fall semester. Move in times to be announced.
 - 23—Class sessions begin.
 - 23—Assessment of \$50 late registration fee begins.
 - 23-27—BearWeb will be open for late registration and schedule changes. After August 27, BearWeb registration will be closed for the Fall 2010 term.
 - 30—Beginning August 30, late registration and schedule changes can be made in the Registration and Academic Records Office, third floor, Suite 370, Robinson Tower, Monday - Friday from 8 a.m. – 5 p.m. (excluding holidays).
 - 31—Last day to register or add a class.
 - 31—Last day for graduate students to file for December 2010 Commencement.
- September
- 1—Assessment of \$20 change in schedule fee begins.
 - 6—Labor Day Holiday. Residence halls open.
 - 9—Students withdrawing beginning this date will receive grades of WP.
 - 17-18—Parents Weekend
 - 20—Courses dropped after this date will be recorded as DP (drop passing) or DF (drop failing), according to the report of the professor of record.
 - 21—Students withdrawing beginning this date will receive grades of WP or WF, according to the report of the professor of record.
- October
- 15-17—Fall break. Residence halls and apartments open.
 - 19—Students withdrawing beginning this date will receive grades of WF.
 - 19—Courses dropped after this date will be recorded as failed.
 - 22—Deadline for *purchasing* doctoral regalia for December 2010 Commencement.
 - 22-24—Homecoming
- November
- 1—Last day to take the oral examination (oral defense) for dissertation/thesis candidates for December 2010 Commencement. (All incompletes for course work other than dissertation/thesis hours must be cleared before the oral examination can be taken.) The Preliminary Technical Review is required and must be scheduled at least 2 weeks before the oral examination. Refer to the Guidelines: www.baylor.edu/graduate/edt.
 - 2-19—BearWeb open for Spring 2011 Early Registration. (tentative)
 - 5—Last day for submission of the Record of Oral Examination form to Graduate School for dissertation/thesis students.
 - 12—Last day to satisfy the Graduate School foreign language requirement for December 2010 Commencement. Refer to www.baylor.edu/MFL for details.
 - 15—Last day for electronic submission of the departmentally defended and approved copy of the dissertation/thesis for December 2010 Commencement.
 - 19—Deadline for *renting* doctoral regalia for December 2010 Commencement.
 - 24—Residence halls close at 9 a.m. for Thanksgiving Holidays.
 - 24-28—Thanksgiving holidays, (Wednesday through Sunday). Residence halls open at 1 p.m. on the 28th.
- December
- 1—Change of Grade form to remove incompletes and petitions for transfer of credit for all students and all course work must be received by the Graduate School by this date.
 - 6—Last day of classes for the semester. Last day for students in non-thesis programs to take the oral or comprehensive examination for December 2010 Commencement. The Record of Oral Examination form or results from comprehensive exams must be delivered to the Graduate School by this date (*do not put in campus mail*).
 - 7-8—Study days.
 - 9-15—Final examinations (includes Saturday, December 11).

- 16—Residence halls close at 6 p.m. for fall residents. The Arbors, East Arbors, Brooks, Brooks Flats, the North Village Residential Community, and Speight-Jenkins will remain open.
- 16-17—Administrative check on candidates for graduation.
- 17—Doctoral Dinner, 7:00 p.m., Barfield Drawing Room, Bill Daniel Student Center
- 18—Commencement at Ferrell Center. Commencement information is available online at www.baylor.edu/commencement.
- 18—Residence halls close for graduating students at 2 p.m.

SPRING SEMESTER 2011, January 10–April 29

- November 20, 2010-January, 14 (tentative)—BearWeb open for registration and schedule changes.
- December
- 2—Spring invoices available online at www.baylor.edu/sfs.
Spring Financial Settlement begins. Pay and confirm attendance online at www.baylor.edu/sfs.
- January
- 21—Spring invoice payment and confirmation due date. (Baylor University will be closed December 24–December 31 for the holidays.)
 - 4—Deadline for Spring Financial Settlement. Classes will be cancelled for students that have not paid and/or confirmed attendance by 5 p.m. If allowed to re-register, a \$100 re-registration fee will be assessed if before class begins; \$150 if after class begins.
 - 5—Residence halls open at 9 a.m. for students participating in sorority recruitment.
 - 7—Residence halls open at 8 a.m.
 - 10—Class sessions begin.
 - 11—Assessment of \$75 late registration fee begins.
 - 10-14—BearWeb will be open for late registration and schedule changes. After January 14, BearWeb registration will be closed for the Spring 2011 term.
 - 17—Martin Luther King, Jr. Holiday.
 - 19—Last day to register or add courses.
 - 20—Assessment of \$20 change in schedule fee begins.
 - 20—Last day for graduate students to file for May 2011 Commencement.
- February
- 27—Students withdrawing beginning this date will receive grades of WP.
 - 7—Courses dropped after this date will be recorded as DP (drop passing) or DF (drop failing), according to the report of the professor of record.
 - 8—Students withdrawing beginning this date will receive grades of WP or WF, according to the report of the professor of record.
- March
- 5—Residence halls close at 6 p.m. The Arbors, Brooks Residential Village, Gables, Fairmont, the North Village Residential Community, and Speight-Jenkins will remain open.
 - 5-13—Spring break.
 - 8—Students withdrawing beginning this date will receive grades of WF.
 - 13—Residence halls open at 1 p.m. after Spring Break.
 - 15—Courses dropped after this date will be recorded as failed.
 - 16—Last day to take the oral examination (oral defense) for dissertation thesis candidates for May 2011 Commencement. (All incompletes for course work other than dissertation/thesis hours must be cleared before the oral examination can be taken.) ***The Preliminary Technical Review is required and must be scheduled at least 2 weeks before the oral examination. Refer to the Guidelines: www.baylor.edu/graduate/edt.***
 - 18—Deadline for *purchasing* doctoral regalia for May 2011 Commencement
 - 22—Last day to submit Record of Oral Examination form for dissertation/thesis candidates.
 - 30—Last day for electronic submission of the departmentally defended and approved copy of the dissertation/thesis for May 2011 Commencement.
 - 31—Last day to satisfy the graduate foreign language requirement and report the results to the Graduate School.
- March 30–April
- 15—Summer and Fall 2011 early registration on BearWeb (tentative).
- April
- 14—Diadeloso.
 - 22-25—Easter holidays. Residence halls remain open during Easter Break

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- 26—Deadline for *renting* doctoral regalia for May 2011 Commencement.
- 29—Last day of classes. Last day for non-thesis candidates to take the oral or comprehensive examination for May 2011 Commencement. The Record of Oral Examination form, or results from comprehensive exams, must be received in the Graduate School by this date (*do not put in campus mail*).
- 29—Change of Grade form to remove incompletes and petitions for transfer of credit for all students and all coursework must be received by the Graduate School by this date.
- May 2-3—Study days.
- 4-10—Final examinations (includes Saturday, May 7).
- 11—Residence halls close at 6 p.m. for spring residents.
- 11-12—Administrative check on candidates for graduation.
- 13—Doctoral Dinner, 7:30 p.m., Barfield Drawing Room, Bill Daniel Student Center
- 13-14—Commencement, Ferrell Center. Specific times will be determined prior to the Spring semester, 2011; please refer to the commencement website at www.baylor.edu/commencement for times and other commencement information.
- 14—Residence halls close at 2 p.m. for spring graduating students.
- 30—Residence hall open for Summer I.

Note: Deadlines subject to change. Please refer to the Web calendar for Spring 2011 for most current dates.

GENERAL INFORMATION

Graduate Student Association

The Graduate Student Association (GSA) is an organization concerned with the intellectual and social growth of graduate students at Baylor University. The GSA sponsors activities and programs that facilitate an exchange of ideas, promotion of scholarly development, cultivation of social support systems, and dissemination of other information concerning graduate student life. All students currently enrolled for one or more semester hours of graduate course work toward an advanced degree and with a graduate GPA of 3.0 or greater are automatically members of the GSA. Students desiring further information about the GSA should review the website at www.baylor.edu/gsa or contact the Associate Dean for Graduate Studies and Professional Development, 254-710-4487.

Housing

Limited housing for graduate students is available through the University. Interested students should contact: Speight-Jenkins Apartments: Office for Campus Living & Learning, One Bear Place #97076, Baylor University, Waco, TX 76798-7076; telephone 254-710-3642, fax 254-710-3667. The Graduate School operates two housing communities: Graduate Student Housing Community at the Quadrangle and Graduate Student Housing Community at Browning Square. Go to [Graduate Housing](#) to apply.

Health Insurance

Information about health insurance may be secured through [Baylor Health Services](#), One Bear Place #97060, Waco, TX 76798-7060 or call 254-710-1493.

International students

All registered **International Students** on non-immigrant visas, taking one (1) or more credit hours and accompanying dependents are required to participate in the Baylor University Student Insurance Plan. International students are automatically enrolled in the university sponsored health insurance plan; charges are added to the student's bill each semester. Rates for the 2009-2010 academic year were: Students, \$1466.00; Student and Spouse, \$5,066.00; Student and Children, \$2,964.00; Student, Spouse and Children, \$6,564.00. Rates for the 2010-2011 academic year will be similar.

All **J Scholars and students on campus for Academic Research or Study** are required to participate in the Baylor University Student Health Insurance Plan.

Graduate students taking one (1) or more credit hours and enrolled in the master or doctoral level thesis or dissertation class may enroll in the insurance plan.

Campus Safety

Baylor considers personal safety on campus a top priority. Residence halls enforce a locked door policy and residents are asked to swipe their student IDs at main entrances to show residential status and to gain access to their building.

The Baylor Police Department provides 24-hour security with car and bike patrols and works in close alliance with the Waco Police Department to create a safe environment for the university community. Emergency call boxes are located on campus with direct access to Baylor Police Department, which has a staff of thirty, including twenty-five commissioned police officers.

Baylor's Crime Prevention and Security Report is provided annually to all students and is available at http://www.baylor.edu/baylor_police.

ADMISSIONS

Admission to the Graduate School is conducted by formal application, which is available online at www.baylor.edu/graduate/application. Graduate admissions committees will consider all application materials when making admission decisions, so each piece of the application is important. In addition to an application, applicants must submit an application fee, official standardized test scores, official transcripts, and letters of recommendation, which are described below in detail. Please send materials to Baylor University Graduate Admissions, One Bear Place #97264, Waco, Texas 76798-7264. Qualified students will be admitted regardless of race, color, national or ethnic origin, gender, age, or disability. The Graduate School will accept paper applications, which can be downloaded and printed at www.baylor.edu/graduate, when necessary.

- All applicants must submit an application and pay an application fee.
- An official transcript from each junior college, college, or university at which course work was taken must be mailed directly from the university to the Baylor Graduate School. The Graduate School requires that all applicants have either a bachelor's degree from an accredited institution in the United States or proof of equivalent training at a foreign institution of higher learning. Applicants are expected to have a record of undergraduate study and experience that is predictive of success in graduate study. A minimum grade point average or standardized test score is not specified. Records for current and former Baylor University students are already on file in the [Academic Records Office](#), so if you are a current or former Baylor student, the Graduate School will request your Baylor transcript and copies of any other transcripts that you have previously submitted to Academic Records at Baylor University. However, non-Baylor transcripts submitted before 1988 will need to be requested from the university at which you took classes and sent to Baylor Graduate Admissions.

The Graduate School must receive proof of an earned degree. If the transcript from the school at which the applicant earned a bachelor's, or bachelor's-equivalent, degree does not clearly state proof of degree completion, including the date on which that degree was conferred, the applicant must request that additional documentation, such as an official diploma certificate showing proof of degree, be mailed to the Graduate School. International applicants should be particularly mindful of this requirement since transcripts from non-U.S. institutions frequently lack proof of conferred degree information. Transcripts in languages other than English must be translated by an official translating agency. If the applicant is admitted before receiving a degree and final transcript, the applicant is required to have an official, final transcript documenting proof of degree sent to the Graduate School by the first day of class. Without proof of degree, the applicant will not be able to register for future terms.

- Standardized testing measures of academic preparedness for graduate study are an important component of the admissions process. Test scores must be less than five years old to be considered. The GRE General Test is required for admission to all programs, except those noted below. (TOEFL test requirements are listed separately - see below.)

Required Tests

- **GMAT only:** Master of Business Administration, Master of Accountancy, Master of Taxation
- **GMAT or GRE General Test:** Master of Science in Education in Health, Human Performance, and Recreation-Sport Management, Master of Science in

Information Systems, Master of Health Administration, Master of Science in Economics, Master of Science in International Economics, Master of Arts in International Economics, Doctor of Philosophy in Information Systems

- **GRE General Test or MAT:** Master of Science in Nursing
- **GRE General Test or MCAT:** Doctor of Philosophy in Exercise, Nutrition, and Preventive Health
- **No tests required:** Executive Master of Business Administration, Master of Music in Performance, Master of Music in Piano Pedagogy and Performance, Master of Music in Church Music, Master of Music in Collaborative Piano, and Master of Science in Education in Educational Administration with a concentration in Principal Certification.

Applicants should request test agencies to send scores directly to the Graduate School. Baylor University's College Entrance Examination Board (CEEB) code is 6032. No minimum standardized test scores are required for any graduate program, but applicants may contact the graduate program director for the program to which they are applying to find out what scores are considered competitive. Scores are determined to be satisfactory in light of other admission materials submitted and special factors specific to individual disciplines as well as institutional standards monitored by the Graduate School.

- Letters of recommendation should address the applicant's potential for success in the graduate program to which he or she has applied. Recommendations should come from professors, employers, or other individuals qualified to accurately assess academic or professional skills. While letters of recommendation will vary in content from discipline to discipline, letters of recommendation for doctoral applicants should address the applicant's academic accomplishments and preparedness for doctoral study.

The Graduate School does not use recommendation forms. As part of the Graduate School's online application, applicants can list their recommender's email address and send them an email containing instructions and a link to a web page where they can submit their letter of recommendation online. Applicants have the option to send recommenders the email in advance of the online application; therefore allowing the recommender more time to submit their recommendation. Applicants should let their recommenders know ahead of time that, once the applicants have submitted their name, they will receive an email from Graduate_Admissions@baylor.edu. Log in to the [online graduate application](#) for more details.

If a recommender submits his or her letter using the online recommendation tool, please do not submit a paper copy. If necessary, recommenders may submit their letters directly to the Graduate School or may provide recommendations to the applicant in a sealed envelope signed across the seal, for submission to the Graduate School. Recommenders may also send their letter via email as a scanned image to Graduate_Admissions@baylor.edu (high quality image >=200dpi; .pdf, .jpg, .gif, .tif, .bmp), via fax to (254) 710-3870, or via email. Letters should include full name, title and mailing address of the recommender. Letters should also include the full name of the applicant and degree to which the applicant is applying.

Three letters of recommendation should be submitted and should be written on institutional or business letterhead. Two letters of recommendation are required for applications to programs in the [Hankamer School of Business](#).

- Applicants must also submit any additional items or materials (e.g., writing sample, statement of purpose, or taped performance) required by the prospective department or degree program. Additional admission items required may be found in the [Curriculum](#) section of this catalog.

• **International applicants are expected to satisfy the following additional admissions requirements:**

A. TOEFL, IELTS, or PTE: Attain a minimum of 550 on the paper-based, 213 on the computer-based, or 80 on the internet-based Test of English as a Foreign Language (TOEFL), or attain a minimum overall band score of 6.5 on the International English Language Testing System (IELTS), or attain a minimum overall score of 58 on the Pearson Test of English.

Applicants to doctoral programs who submit an internet-based TOEFL score are required to score a minimum of 23 on the speaking section of the test. Note: All programs in the Hankamer School of Business require a minimum TOEFL score of 600 on the paper-based test, 250 score on the computer-based version, or 100 on the internet-based version or a minimum overall band score of 7.5 on the IELTS, or a minimum overall score of 58 on the PTE.

Note: The TOEFL, IELTS, or PTE are not required if the applicant has a degree conferred by a U.S.-accredited higher education institution, or if the official language of their country, or region of their country, is English. TOEFL, IELTS, and PTE scores are valid for two years. After that time, the applicant must retake the test and submit the new scores to the Graduate School. For information about TOEFL, go to www.ets.org, for IELTS, go to www.ielts.org, or for PTE go to www.pearsonpte.com.

B. When all of the preceding requirements have been received and satisfied, and after the applicant has been accepted by a degree program, the international student must complete the Visa Authorization form and the Confirmation of Financial Resources form. For more information regarding these forms and how to obtain an I-20, which is required for an F-1 (student) visa, contact the International Student and Scholar Services office at (254) 710-1461, or see their website at www.baylor.edu/cie. Baylor requires all international graduate students to carry medical insurance prior to enrollment (see [Health Insurance](#) section of this catalog).

Unexpired application materials including applications, transcripts, test scores, letters of recommendation, and resumes will be held for two years, after which point they will be destroyed. Applications submitted after stated deadlines may not be considered. Applications on which admission decisions have not been made may be deferred up to one academic year. Declined applicants must reapply. A student desiring admission to any graduate degree program must complete the application process, even if another graduate degree has been earned at Baylor University.

Applications for **Transfer of Credit:** Students enrolled in a graduate program at another university who wish to take graduate course work at Baylor University for credit to be transferred to their home institutions may apply as “transfer of credit” applicants. Transfer of credit applicants must submit a Transfer of Credit paper application (available from the Graduate School), a \$25 non-refundable application fee, and a letter of good standing from the home institution’s Registrar. Also, a Baylor Health Form must be completed and submitted to [Baylor Health Services](#).

Applications for **Re-enrollment:** If a student has completed a Baylor graduate degree and would like to take additional course work within the same department on a non-degree basis, a Re-enrollment paper application is required (available from the Graduate School). If it has been longer than one year since the last term of enrollment, the Baylor Health Form must be resubmitted.

The Graduate School’s letter of admission constitutes the University’s only official notification of the admission decision. (Admission is specific to individual graduate programs, the specific semester, and the stated terms of admission.) Admitted applicants

must submit the Health Form and be cleared by [Baylor Health Services](#) before registering for classes. An admitted applicant may defer his or her admission up to one academic year with written permission from the graduate program. Attempts to enroll after the one year period will require re-application. The University reserves the right to refuse admission to any applicant whose previous academic record is deemed unsatisfactory.

Additional Considerations

- Applicants will be expected to complete all undergraduate prerequisites in both the major and minor fields in which graduate study will be pursued. The determination of appropriate prerequisites is made by each program's graduate program director and/or the chairperson of the department in which the graduate program is housed. Students otherwise eligible for unconditional admission and who require no more than six semester hours of prerequisite course work may, with the permission of the graduate program to which the student applies, concurrently pursue both graduate study and prerequisite course work in the first semester. The total course load, however, may not exceed fifteen semester hours.
- The Graduate School recognizes the breadth of talents and aptitudes that are required to successfully complete a given graduate program and to demonstrate exceptional proficiency under gainful employment. With this in mind, consideration for alternative valid and reliable standardized measures required for admission will be made by the Graduate School where appropriate college/school administrative endorsement has been received.
- If evidence of sufficient qualifications for admission is inconclusive, a student may be admitted on probation for a total of nine semester hours of graduate course work, contingent upon both the recommendation of the graduate program director and the approval of the Graduate School. Students on probation cannot receive university funding for either stipend or tuition. If the student is unable to maintain the overall GPA requirement of 3.0 at the conclusion of the nine hours, the student will be dismissed from the Graduate School.
- Admission to a graduate program does not automatically guarantee a student's candidacy for a graduate degree. See the section in this catalog entitled Admission to Candidacy. Any degree program may require its master's students to pass a qualifying examination before program completion. All doctoral degree candidates must take a preliminary examination before admission to candidacy.
- A student desiring to change degree programs after admission has been granted must fill out a change of degree form (available from the Graduate School).

Student Responsibility

It is the student's responsibility to become informed and to observe all regulations and procedures concerning degree completion required by the graduate program to which the student is admitted. This includes attention to all internal deadlines (degree completion, registration, graduation, etc.), as well as the use of appropriate dissertation/thesis guidelines, and satisfying registration throughout degree completion and financial settlement procedures.

FINANCIAL INFORMATION

The expenses of educating Baylor University students are controlled as much as possible while responding to demands for effective operations, consideration for the general welfare of students, and continued support of the quality of the educational experience. Nine semester hours constitutes official full-time status for graduate students; however, the threshold used by the University to calculate fees is twelve semester hours, providing an advantage to graduate students taking up to eleven hours per semester. A general estimate of expenses for a new graduate student enrolled in a normal course load of nine hours for one semester is shown below.

Due to continually increasing operating costs, Baylor University reserves the right to change tuition, fees, deposits, and room and meal rates without notice to prospective students.

Tuition

Regular tuition, per semester hour \$1,124.00*

A graduate student studying with one or more faculty members and using the resources of the campus is required to register for at least one semester hour of graduate credit.

*Students must be registered for at least one semester hour of graduate credit during the semester of intended graduation.

Fees

Administrative fee, per term (certain programs only) \$100.00

Application fee for:

All graduate programs (except business) 40.00

Business graduate students 50.00

Executive MBA students 100.00

Application fee for transfer of credit 25.00

Applications will not be processed without this fee. This fee will not be waived. (Application fees subject to change).

Applied Music fee, per semester for

one 30-minute lesson per week 212.00

Audit fee, per course 212.00

Change-of-schedule fee (changes made at student's request after 5th day of class fall/
spring or after 2nd day of class in summer) 20.00

Commencement charges

Master's cap/gown/hood, purchase through bookstore, no return 75.72*

Doctoral cap/gown/hood, rental, return required 40.05

Doctoral cap/gown/hood, purchase, no return 942.56

Duplicate diploma to replace lost original (special order through

Registration and Academic Records, Suite 370) 25.00

*Handled in Graduate School Office

General Student Fee (figured on a twelve-hour threshold, although full-time status for graduate students is nine semester hours):

For students taking twelve semester hours or more, per semester 1,379.00

Fewer than twelve semester hours, per semester hour 115.00

Graduate Student charges/fees*

Traditional publishing of dissertation (required) 65.00

Copyrighting of dissertation (optional) 65.00

Traditional publishing of thesis (optional) 55.00

Copyrighting of thesis (optional) 65.00

**Fees subject to change*

Identification card replacement fee 12.00

Installment plan fee (unless receiving Graduate stipend) 60.00

Summer installment plan fee (unless receiving stipend) 24.00

Laboratory/Course fee, per course (\$50.00 minimum, charges vary) 50.00

Re-registration fee - schedule cancelled and allowed to re-register

Re-registration before semester begins 100.00

Re-registration after semester begins 150.00

Summer re-registration fee 100.00

Late Payment Fees

After due date of original semester invoice and before 1st day of class for semester	50.00
On or after first day of class for semester	75.00
Summer term	50.00

Later registration fee

On or after 1st day of classes for semester	75.00
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Vehicle registration fees

Automobile – Annual (September-August)	225.00
Spring (January-August)	135.00
Temporary – For seven day period	7.00
Replacement – Any time, return old sticker	10.00
Motorcycle – Annual (September-August)	35.00
Spring (January-August)	20.00

Rooms and Housing

Residence Hall rooms for men and women, per semester, per person \$2,247.00
(charges may vary for some rooms)

Brooks Residential College	2,731.00-3,255.00
Brooks Village Flats	3,525.00-4,014.00
Arbors East	2090.00
The Arbors	2,165.00-2,288.00
North Village	2,645.00-3,976.00
Speight-Jenkins Apartments single occupancy	TBD

Meals

Residence Hall Dining:

Unlimited	\$2,394.49*
The Works – 16 Meal Plan plus \$100.00 Dining Dollars	1,918.60*
The Block- 145 Plan	1,206.99*
The Block 225 plus \$75.00 Dining Dollars	1,924.99*
Classic – 11 Meal Plan, plus \$150 Dining Dollars	1,788.91*
Basic – 7 Meal Plan	1,065.18*
Ivy Square 7 (4 Breakfast/3 Dinners)	1,065.18*
Socialite – 5 Meal Plan, plus \$100 Dining Dollars	878.32*
The Block 90 plus \$100.00 Dining Dollars	849.09*
Light Eater – 3 Meal Plan, plus \$250 Dining Dollars	670.01*

Note: The meal-plan week begins Saturday a.m. and ends Friday p.m.

Estimate of Expenses per Semester

Tuition, normal course load of nine semester hours

@ \$1,124.00 per semester hour** \$10,116.00

Meals, per semester 1,918.60*

Residence Hall room, per semester 2,247.00

General student fee, per hour rate of \$115.00 (9 hours) 1,035.00

Laboratory/Course fee, per course varies 50.00 to 250.00

Vehicle registration fee, annual 225.00

*8.25% tax included

****Students in the Communication Sciences and Disorders program and the MBA and MBA/MSIS combined programs will pay a flat tuition rate of \$13,483.00 and a flat general student fee of \$1,379.00 for 12 or more hours.**

Payment of Accounts

A student's registration for a semester is not finalized (financially settled) until all expenses are paid or acceptable payment arrangements are made and the student has confirmed his/her intent to attend for the term billed.

Several weeks prior to the beginning of a semester, students who have registered will receive an email at their Baylor email address with a link to view that semester's bill. Bill notification will also be emailed to the parent/guardian if the student has signed him/her up as an authorized user on E-Bill (www.baylor.edu/ebill). Payment can be made from the E-bill site or at www.baylor.edu/sfs, using checking, savings, or credit card accounts. (Credit cards are accepted only when using the online payment processor. A 2.75 percent fee will be charged, with a \$3 minimum, by the online payment processor for credit card payments. MasterCard, Discover, and American Express are the accepted credit cards.) After viewing the bill online, **the student should confirm attendance at www.baylor.edu/cashiers indicating that he/she will be attending Baylor for the semester billed, even if the bill shows a zero or credit balance.** These actions must be completed by the due date indicated on the bill. A late fee will be charged for payment received after the due date. A student who does not complete financial settlement by the deadline date will have classes cancelled and must re-register before being allowed to move into housing or attend classes. A re-registration fee will be charged.

Students who register during the early registration process will receive both a paper bill and an electronic bill. Late registrants will only receive an e-bill due to time constraints. If financially settling by mail, the student should fill out the top portion of the bill and return it to the Cashier's Office with the indicated payment to be received by the due date.

In lieu of full payment, Baylor University offers an installment plan for financial settlement. This plan divides the financial obligation for a semester into five payments (summer is divided into two payments) to make the Baylor education more affordable for students and parents. It is available to undergraduate and graduate students, part-time and full-time. There is a \$60 per semester non-refundable fee for participation in the plan (summer installment fee is \$24). Students who do not pay in full are automatically defaulted to the installment plan. The minimum amount due listed on the semester billing statement is the first installment payment, and must be received by the due date (allow 7 to 10 days for mail delivery.) Monthly billing statements are only sent electronically to the student's Baylor email address and to the authorized parent or guardian. Students must designate online in the e-bill the authorized parent or guardian. Notice of monthly billing statements will be emailed for you to view online, with payments due by the end of the month. Monthly billing statements will not be sent by mail.

A student registering for the first time in the semester after the financial settlement due date (posted on [BearWeb](#)) should either pay in full or make the first installment payment online or at the Cashier's Office **the day after the student registers**. A \$50 late fee is charged if payment is made after the payment due date indicated on the e-bill, and the late fee increases to \$75 on or after first class day. Also, for those that register for the first time in the semester on the first class day or any day thereafter in the term, a \$75 late registration fee will be charged.

Baylor offers a guaranteed tuition option to undergraduate and graduate students. By selecting this option, a student is able to lock in the same tuition rate for four years. The guaranteed tuition option eliminates uncertainty about future tuition increases, allowing students and parents to accurately prepare their educational budgets for four years. More information on this option may be obtained from the [Baylor Cashier's Office](#).

If you have questions on tuition, fees or financial settlement that are not covered here, visit the Cashier's Office website at www.baylor.edu/sfs or call 254-710-2311.

Students needing financial aid assistance should visit the Student Financial Aid Office website at www.baylor.edu/sfs or call 254-710-2611. Students who are recipients of scholarships from religious institutions, foundations, corporations, individuals, or other organizations outside the University should arrange with their donors to send checks and verification of awards to the Cashier's Office, One Bear Place #97048, Waco, TX 76798-7048, so that such information is included in the Baylor pre-registration process.

Students must meet the following schedule to receive priority for funding (some programs are limited) and to ensure availability of funding by the time payment is due.

Priority Date to receive completed and signed FAFSA:

Fall and spring semesters March 1

Spring semester only October 1

Respond promptly to requests for additional documentation/clarification received by mail or email (all emails are directed to students' Baylor email accounts.)

Deadline to receive completed and signed FAFSA to ensure the availability of funds by the time payment is due:

Fall and Spring semesters May 1

Spring semester only November 1

Students who file the FAFSA after the deadline should be prepared to pay their semester bills from their own resources. If eligible for aid, they will be reimbursed at a later time.

Cancellations

A student's cancellation occurs when a student decides not to attend classes for a semester prior to the first day of classes for that semester. (A student's schedule cannot be cancelled on or after the first day of the term.) Such cancellations and related refund requests must be in writing, addressed to the Cashier's Office, One Bear Place #97048, Waco, TX 76798-7048 or by email to cashiers_office@baylor.edu, and made prior to the first day of classes for the semester. For cancellations, all tuition and fees, except room, will be refunded at 100 percent. If a student has made arrangements for on-campus housing, Campus Living & Learning, One Bear Place #97076, Waco, TX 76798-7076 must receive a separate notification. Cancelled courses do not appear on the academic transcript.

Withdrawals

Beginning the first class day of a term, students who are financially settled must contact the Paul L. Foster Success Center (PLFSC) to withdraw from the University. This department can be reached by emailing Success_Center@baylor.edu or calling 254-710-8212. Additional contact information is available online at [Paul L. Foster Success Center](#).

Under no circumstances does notification to professors or dropping classes constitute an official withdrawal from the University.

The official withdrawal date is established by the student's contact with the Paul L. Foster Success Center. If the student fails to contact the PLFSC and simply stops attending, then tuition, fees, meal plans and other applicable charges will not be adjusted on the student's account. Financial Aid credits, however, may be reversed according to federal regulations.

Refunds are applied to any outstanding balance owed the University. Any remaining credit will be mailed to the student at his/her home address in the student information system.

Refunds of tuition and required fees, General Student Fee, Chapel Fee, Laboratory/Course Fee, Administrative Fee and Applied Music Fee, are based on the official withdrawal date and are pro-rated on a per diem scale based on the total calendar days in that payment

period up to the date that represents 60 percent of the payment period. A payment period is defined as the total number of calendar days in the semester or term (published first day of class through the published last day of finals) excluding the five calendar day Thanksgiving break and the nine calendar day spring break. There are no refunds after the 60 percent point of the payment period. To obtain a calendar schedule of refund percentages, please refer to the schedule of classes for the term, contact the Cashier's Office at 254-710-2311 or visit the Cashier's Office website at www.baylor.edu/sfs. Unless specifically noted, other fees are considered non-refundable.

Unused BearBucks™ and Dining Dollars are refunded.

Meal plan refunds are based on the official withdrawal date. An administrative charge equal to one week of the meal charge for the student's respective meal plan will be assessed.

Financial aid recipients are not eligible for a refund until all of the financial aid programs are reimbursed in accordance with federal, state, and University guidelines. To obtain information about the return of financial aid funds, contact the Student Financial Aid Office. This department can be reached by calling 254-710-2611. Additional contact information is available online at [Student Financial Services](#).

Students residing in campus housing must contact the Office of Campus Living & Learning to obtain information about any applicable housing adjustments and penalties. This department can be reached by calling 254-710-3642. Additional contact information is available online at [Office of Campus Living & Learning](#). Students must follow the proper check-out procedure established by this department and must vacate their campus housing within 48 hours of the official withdrawal date.

Dropping a class or classes is not considered a withdrawal. The term "withdrawal" refers to dropping all classes after financial settlement through the PLFSC and leaving the University for that term. Beginning the first class day of each term, students will not be able to go online and drop all of their classes.

Dropping Classes by Student

Students have the option to drop a class prior to or during a semester. In order to receive a refund once the term has begun, students should follow the refund schedule listed below.

Prior to the end of the 5th class day.....	100%
Prior to the end of the 10th class day.....	75%
Prior to the end of the 15th class day.....	50%
Prior to the end of the 20th class day.....	25%
After the end of the 20th class day.....	none

To determine how a refund is calculated, multiply the number of hours the student will drop by the applicable percentage rate above based on the day of the drop. This will determine the number of hours to subtract from the number of enrolled hours. The student is financially liable for the enrolled hours plus the determined percentage of dropped hours. For example, if a student is enrolled in 14 hours and drops a 3 hour course prior to the 10th day of class, subtract the 3 hour dropped course from 14, multiply the 3 hours by 75% and add the calculated 2.25 hour dropped course to the 11 hours giving the student 13.25 billable hours. This calculation also indicated that the student is still liable for the Flat Rate tuition.

Beginning with the 8th class day for fall/spring (3rd class day - summer), a \$20 change of course fee will be assessed for all schedule changes. There is no refund adjustment unless the student drops below 12 hours at any point; only the \$20 change of course fee is charged. An attempt to drop all scheduled classes for a semester is considered a withdrawal for the term and students must follow the guidelines for a withdrawal addressed above.

Appeals

Students who believe that they have individual circumstances warranting an exception to published refund policies may appeal the application of the policy. To appeal based on these circumstances, the student or parent should contact the Paul L. Foster Success Center, One Bear Place #97021, Waco, TX 76798-7021, 254-710-8212, for withdrawal appeals or the Dean's Office having oversight of the class for add/drop appeals.

Dropping an Audited Course

Students who drop an audited course by the 5th class day are eligible for a full refund. No refund for an audited course is given after the 5th class day.

Right to Withhold Transcripts and/or Block Registration

Baylor University may withhold the issuance of a transcript record and/or block the registration of any current or prior student if the student has certain outstanding obligations to the University. The student obligations may be financial or non-financial. Financial obligations include: Public Safety traffic fines, Health Center charges, student loan accounts, tuition and fees, long distance telephone accounts, or any other financial obligation owed by the student to the University. Non-financial obligations include the University requirements of a student imposed by published written policy or other written requirements including, but not limited to, incomplete processing under the Student Disciplinary Procedure. Release of the transcript and/or a registration block will be authorized only after a financial obligation to the University is paid in full, or satisfactory arrangements are made to comply with other obligations.

Assistantships

The University provides many students with graduate assistantships (tuition and/or stipend support) which are available with varying compensation levels depending upon the nature of the service and the amount of time required of the students. Information concerning assistantships and fellowships may be obtained from either the chairperson or the graduate program director in the degree program. In addition to University-funded assistantships, there are foundation grants that provide funds for various kinds of assistantships. Students receiving assistantships must maintain an overall grade point of 3.0 to avoid being placed on probation. Probationary status makes the student ineligible for assistantships and fellowships.

Graduate Assistantships are awarded by the graduate programs and generally fall into three broad categories:

1. **TA- Teaching Associate:** Reserved for the limited number who are teaching a course (and those in charge of the class or lab with mentoring by a professor). If teaching at least three hours per semester, and listed as 51% teaching, exempt from time card during the semester of teaching.
(Note: Those teaching at least 6 hours per year are eligible for health insurance benefits for self, and half paid for spouse, and child as described in current policies; student's name must be associated with the class or lab in ClassAct by the 12th class day as outlined in our policies; all TAs must be evaluated every semester.)
2. **RA- Research Assistant:** Must have stipend funded through an external grant; department may propose to Payroll to be exempt from time card, depending on circumstances.
(Note: If external grant pays at least 85% of insurance for student, eligible for half paid spouse and child health insurance benefits.)
3. **GA- Graduate Assistant:** All students who do not fit into the categories above. Duties may include grading, assisting professors with courses, research assistance that is not supported with external funds, and other duties as appropriate.

Although the specific responsibilities will vary by department and assistantship, the number of hours required by the department in return for this assistance will typically not exceed twenty hours per week in order to protect graduate students from excessive commitments away from research and study. Graduate assistantship assignments should not exceed the number of hours specified by the appointment. Consultation with the supervisor, chairperson, or Graduate Dean is encouraged if a graduate student has concerns regarding unexpected, excessive, or other use of time which interferes with the student's course work.

The department should provide graduate students with sufficient facilities, equipment, and supplies to complete the duties and responsibilities of the given assistantships. The students should confer with the supervisor to establish procedure for acquiring this support.

Note: Students awarded tuition only cannot work as graduate assistants.

Persons awarded graduate assistantships (especially Teaching Associates) are encouraged to confer with their graduate faculty supervisor, department chairperson, and/or graduate program director concerning grading policies, office hours, and advising. Further, graduate students should review the university personnel manual for additional policies pertaining to the University's expectation of its employees in the performance of their assignments. The graduate faculty supervisor is responsible for arranging student access to these materials.

Baylor University is a member of the Council of Graduate Schools (CGS). Baylor abides by a CGS Resolution, "Resolution Regarding Graduate Scholars, Fellows, Trainees and Assistants," that concerns the conditions surrounding the acceptance of offers of certain kinds of graduate student financial assistance, namely, scholarships, fellowships, traineeships, and assistantships. The general spirit of the Resolution is that students should have an opportunity to consider more than one offer and should have until April 15 to do so, that institutions and students should be able to view acceptances in force after April 15 as binding, that everyone should know what the rules are, and that an offer by the institution and its acceptance by the student constitute an agreement which both expect to honor. The Resolution acknowledges that students, after having accepted an offer, may change their minds and withdraw that acceptance. The intent of the Resolution is to provide a uniform and widely acceptable framework for so doing, one that provides protection for both student and institution. Full text of the Resolution can be viewed [online as pdf d{\ "erlenkpi "j gto](#)
The April 15 date applies to fall applications submitted by the Graduate Uej qqnu'r quqf deadline.

Fellowships and Scholarships

Baylor participates in the fellowship programs of the National Science Foundation, the National Defense Education Act, the National Institutes of Health, and other national programs. Other agencies channel financial aid directly to students through the Student Financial Aid Office. Some of the available fellowships and scholarships include the H.L. Carter Scholarship in American Studies, the Dixon Wector Fellowship in American Studies, the Owen Brown Fellowship in Environmental Studies, the Scottish Rite Church-State Assistantship, the Ellis H. Sparkman Graduate Fellowship in Education, the Guitard Graduate Fellowship in History, and the Herbert Joseph Reynolds Graduate Scholarship in Psychology. The Graduate School awards a limited number of Fellowships to exceptional applicants upon enrollment.

Loans

Loan programs available to graduate students include Direct Subsidized and Unsubsidized Loans, Direct Grad PLUS Loans, and alternative loans through various private lenders. Apply for loans by completing the Free Application for Federal Student Aid (FAFSA) at www.fafsa.ed.gov. Visit the website at www.baylor.edu/sfs for additional information regarding the financial aid application process.

REGISTRATION AND ENROLLMENT

REGISTRATION

Classifications

- **Regular:** Student is fully admitted to a graduate degree program.
- **Post Baccalaureate:** Any student wishing to register for graduate classes before being formally admitted to the Graduate School will need to register as a post baccalaureate student through the undergraduate Admissions Office. Only six hours of graduate level work may be taken by a post baccalaureate student. Before the student can register for a graduate course, permission must be granted by the Graduate School. After the student has been admitted to the Graduate School, he/she may then petition to transfer the six hours of graduate level work taken as a post baccalaureate student into their graduate program. This applies to 4000-level courses carrying graduate credit as well as 5000-level courses.
- **Transfer of Credit:** Any student in Good Standing in a graduate program at another university wishing to take a graduate-level course at Baylor and transfer the credits to their home university.

Procedures

1. Registration information is located at <http://schedule.baylor.edu>.
2. Students who do not pre-register should check with their department for registration information prior to the first day of classes.
3. All students are expected to register for a minimum of one semester hour in each semester. This practice is institutionally referred to as “continuous registration.”
4. All students must be registered for at least one semester hour of graduate credit during the semester of graduation.
5. All students should refer to the official University and Graduate School Calendars for dates set for the semester of graduation. Dissertation and thesis students should be especially mindful of final deadlines for submission and completion of degree requirements. Dissertation and thesis services are available from the first day of classes through the last day of classes during each semester.

It is the graduate student's responsibility to honor all conditions and procedures associated with timely registration. Advisement should be limited to the appropriate graduate program director and authorized faculty. Advisement is expected to be consistent with policies and procedures as stated in the Graduate Catalog.

ENROLLMENT

Classifications

- **Graduate:** Any person holding a bachelor's degree who has been admitted to the Graduate School, who has enrolled in a graduate program, and who is taking course work to be credited toward a graduate degree. Graduate students are expected to maintain continuous registration, including the semester in which the degree is conferred. (See Items 3 and 4 in the preceding section.)
- **Graduate Non-Degree:** Any person holding a bachelor's degree who has been admitted to the Graduate School, but not wishing to pursue a degree. The University will produce a graduate transcript reflecting the graduate-level course work taken. Graduate non-degree students must satisfy the same admission standards as fully admitted students.
- **Transfer of Credit:** Any student in Good Standing in a graduate program at another university wishing to take a graduate-level course at Baylor and transfer the credits to their home university.

- **Post baccalaureate:** Any person holding a bachelor's degree that has not been admitted to Graduate School who is taking course work through the undergraduate Admissions Office. Before the student can register for a graduate course, permission must be granted by the Graduate School. Please contact the Graduate School at 710-4610 to obtain the appropriate forms to register for classes. An undergraduate transcript will be generated for the student to reflect the post-baccalaureate coursework. After the student has been admitted to the Graduate School, he/she may then petition to transfer the 6 hours of graduate level work taken as a post-baccalaureate student into their graduate program.
- **Undergraduate Senior:** An undergraduate senior may enroll in graduate course work (including 5000-level courses and 4000-level courses approved for graduate credit for which the student intends to apply either toward graduate credit or toward undergraduate degree requirements), subject to the following conditions:
 1. The student must have grade point averages, both overall and in the major field, of at least 3.0.
 2. The student may enroll in no more than one graduate course in one semester.
 3. The course load (combined undergraduate and graduate course work) may not exceed fifteen semester hours in one semester.
 4. The student must have taken and successfully completed all prerequisites for the graduate course(s).
 5. The student may include no more than six semester hours of graduate credit within the total semester hours for the undergraduate degree.
 6. The student will assume the responsibilities of a graduate student in a graduate course.

Exceptions to rules 2 and 5 above may be granted for students in joint-degree programs which integrate undergraduate and graduate degree requirements, resulting in simultaneous award of both bachelor's and master's degrees. In such cases, the student may enroll in no more than two graduate courses in one semester, and the student may include no more than twelve semester hours of graduate credit within the total semester hours for the undergraduate degree. In this context, the full summer is considered as one semester such that an undergraduate senior may take a maximum of two graduate courses during the combined summer sessions.

Permission to take graduate course work requires the student to file a petition to be approved by the professor(s) of the course(s), the dean of the college of the student's undergraduate major, and the Dean of the Graduate School. Accompanying the petition must be a copy of the student's transcript so that the Graduate School can calculate grade point averages. On the petition, the student indicates whether the graduate course work is to apply toward undergraduate degree requirements. Should the student later be admitted into a graduate program for which the course work is relevant, the student if they did not count the work toward the undergraduate degree may petition the Graduate School to transfer up to six hours into their graduate program. The course work may not be counted both ways unless it is part of a joint degree program and has already been approved as part of the curriculum. Final approval of the petition must be obtained before the student can register for any graduate course work.

Information on Change of Degree

The Change of Degree form is for current students who wish to change degree programs. The form may be obtained from the Graduate School Office. The signature of the Graduate Program Director for the current and prospective degree program is required.

Course Numbering System

The numbers applied to each course indicate level, semester hours of credit, and sequence.

Selected courses numbered 4000-4V99 are open to both advanced undergraduates and graduate students. **Graduate credit will not be conferred for courses numbered below 4000, or for 4000-level courses which do not appear in the Graduate Catalog.** Courses numbered 5000 and above are limited to graduate students. Only doctoral candidates will be permitted to register for 6000-level courses. The first digit in the number indicates the level. The second digit in the number indicates the value in graduate credit hours. Thus, “3” as a second digit indicates three credit hours. Some courses may be taken for a varying number of credits, typically from one to three semester hours. In such cases, instead of a digit for the second place in the course number, the letter “V” is used, and the varying amount of credit is indicated at the right of the course title. The last two digits are reserved for departmental indication of preferred sequence of courses.

Course Load

Nine semester hours constitute official full-time status for a graduate student, although some University fees are figured on a threshold of twelve semester hours. The maximum number of semester hours for which a master’s student may register in a given semester is sixteen. The maximum course load for doctoral students is twelve semester hours; practicum credit for Psy.D. students is not included in the twelve hour limit. No more than eight semester hours may be taken in either of the two summer sessions. Graduate students who are graduate assistants or laboratory instructors are strongly discouraged from taking the maximum allowable number of graduate credits.

Grading System

Passing grades for graduate students are A (4.00), A- (3.75), B+ (3.50), B (3.00), B- (2.75), C+ (2.50), C (2.00) and C- (1.75). The grade of D carries one grade point per hour; however, it will not apply toward the total number of hours required for program completion. If a grade of D or F is made in a required course, the student must repeat the same course and make a grade of C- or better to meet the degree requirements for graduation. Courses taken at Baylor may be repeated where the grade received is C+ or lower. Student’s transcripts will reflect both grades and both will be included in the overall grade point average.

The grade of “I,” incomplete, may be given only when the completed portion of the course work is of passing quality. It is the student’s responsibility to complete the course requirements and to see that the incomplete grade is removed from the record. A student may not graduate with an “I” incomplete on their transcript. The incomplete grade will change to an “F” when the student reaches their time limit. The only exception is dissertation (6V99) or thesis (5V99).

Students may not register in a course other than 5V99, 6V99, or scientific research for which they may already carry a grade of incomplete. Students who receive one or more incomplete grades during a semester may have their schedule for the following semester reduced by the number of hours of “incomplete” received. In certain practicum-oriented and internship-based courses in the major or minor field, a grade of “Pass,” “Fail,” “Credit,” or “Non-credit” may be given, provided the grading system for the courses has been approved by the Graduate School, and has been coordinated with the Registration and Academic Records Office prior to course offering. Students registering for dissertation (6V99) or thesis (5V99) will receive a grade of “I” until the work is complete and the defense held. After which, a grade of “Credit” or “Non-credit” rather than a letter grade will be assigned.

Audit

A student may audit a course with the written permission of the Graduate School. The fee for auditing a course is one-fourth of the current tuition rate of one semester hour. Tuition funds may not be used to cover classes that are being audited. Only lecture courses may be audited. Audit enrollment is subject to the instructor’s willingness to have

nonparticipating students. Students who drop an audited course by the fifth class for the fall or spring semester are eligible for a full refund. Full refunds also apply to students who drop an audited course by the third class day for the full summer session, by the second class day for Summer I and II, and by the first class day for the Minimester. No refunds are given after the designated drop date.

Audited courses may not exclude a student seeking credit, may not be repeated at a later date for credit, may not be changed in status after the registration period, and are not considered part of the course load. The course will not count toward degree requirements.

Probation

A student who is admitted to Graduate School on probation must maintain a “B” (3.0) overall grade point average during the first nine semester hours of graduate course work. Failure to do so will result in notification of dismissal by the Graduate School. The Graduate School is not required to hear student appeals of this decision. Graduate Program Directors who determine that there may be extenuating circumstances should direct letters in the student’s behalf to the Dean of the Graduate School. Students are automatically removed from probation upon completion of the first nine semester hours of graduate-level course work if an overall 3.0 grade point average is attained.

Any fully admitted student whose overall GPA falls below a “B” (3.0) average during any semester will be placed on probation for the next nine semester hours of course work. If, after completion of the ninth semester-hour credit, the student’s overall grade point average is still below 3.0, the student will receive notification of suspension from the Graduate School. Students receiving assistantships must maintain an overall grade point average of 3.0 to avoid being placed on probation. Probationary status prevents the student from assistantship/fellowship eligibility.

Suspension

Individuals who do not attain the required minimum grade point average of 3.0 during the probationary period will be notified in writing by the Graduate School of their suspension.

The student will be precluded from all registration and enrollment privileges at that time. Should the student’s circumstances be so unusual as to warrant special consideration, the dismissal letter will include directions and provisions for engaging in an appeals process.

Dropping Courses

A student who wishes to drop a course should consult the graduate program director of the student’s degree program. The procedures for dropping a course are outlined on the web at <http://schedule.baylor.edu>. During the first five days of the semester, students may drop courses on BearWeb (change of schedule fee assessed beginning eighth day of class for fall or spring terms). After that date, all courses dropped will be processed through the Registration and Academic Records Office. For the fall and spring semesters, if a student drops a course before the end of the twentieth class day, there is no grade assigned. After that date through the fortieth class day, the instructor of record must assign a grade of DP or DF and sign the Change in Schedule form next to the grade. A grade of DF will carry the same value as a grade of “F.” After the fortieth class day, a grade of DF is automatically assigned if there are no compelling extenuating circumstances with the case.

The summer semester has different deadlines. For those dates, refer to the calendar on Baylor’s homepage. A course is not considered officially “dropped” until processed via BearWeb or by the Registration and Academic Records Office, or a professional advisor. Failure to drop a course officially will automatically result in a grade of “F.” The student must have attended class regularly until that time.

Withdrawal from the University

Withdrawals occur when a student decides to leave the University after he/she has completed financial settlement and classes have begun for a semester. Withdrawals and requests for related refunds must be requested by the student through the Paul L. Foster Success Center. Under no circumstances will notification to professors constitute official withdrawal from the University. The withdrawal date, in accordance with Federal guidelines, is recognized as the date the student notifies the [Paul L. Foster Success Center](#) of the intent to withdraw, either in writing or orally. Any other procedure will lead to failure in all courses for which the student is registered.

Grades are assigned according to the schedule in the academic calendar. Courses from which a student is withdrawn may not be removed from the student's record unless tuition refunds of 100 percent are awarded. Tuition refunds are defined under "Expenses." See the [Financial Costs](#) section of this catalog for the refund schedule.

DEGREES OFFERED

Baylor University offers graduate degrees in four cities in Texas and in West Point, New York, and Tacoma, Washington. The Waco campus offers twenty Doctor of Philosophy degrees, two doctoral-level professional degrees, twenty master's-level professional degrees, twenty-one Master of Arts degrees, eleven Master of Science degrees, and seventeen joint degrees. Dallas, Texas, is the site for the Master of Science in Nursing degree and the Doctor of Nursing Practice. The United States Army Academy of Health Sciences, Army Medical Department Center and School, in San Antonio is the site for two master's degrees, a joint degree, and four doctoral degrees. Darnall Army Medical Center in Killeen, Texas is the site of one doctoral degree. Ft. Bliss, William Beaumont Army Medical Center, in El Paso, Texas is the site of one doctoral degree. The United States Military Academy in West Point, New York, offers a doctoral degree. The Madigan Army Medical Center in Tacoma, Washington, offers a doctoral degree.

The Graduate School encourages faculty to invest in the lives of gifted graduate students, equipping them to pass on a vision of inquiry, scholarship, teaching, and service. Students participate in classroom, tutorial, and collegial modes of learning and in systematic independent inquiry, in a setting that allows them to see scholars at work as an important means of learning the scholar's art.

In order to ensure the appropriate quality of graduate courses, the Graduate Curriculum Committee, before it approves a proposal for a new course, must determine whether the course requires a level of independent learning and academic content above what is expected at the undergraduate level and is appropriate for graduate study.

Students may not pursue two or more graduate degrees concurrently unless the degrees are part of a University approved "[Joint Degree](#)" program. In "[Joint Degree](#)" programs, since both degrees are awarded simultaneously, all requirements in both programs must be completed in order to receive either degree.

WACO, TEXAS

DOCTOR OF PHILOSOPHY DEGREE PROGRAMS

- | | | |
|--|--|-----------------------------------|
| • Biology | • English | • Political Science |
| • Biomedical Studies | • Exercise, Nutrition, and Preventive Health | • Psychology |
| • Chemistry | • Geology | • Religion |
| • Church-State Studies | • Information Systems | • Religion, Politics, and Society |
| • Curriculum and Teaching | • Mathematics | • Sociology |
| • Ecological, Earth and Environmental Sciences | • Philosophy | • Statistics |
| • Educational Psychology | • Physics | |

PROFESSIONAL DOCTORAL DEGREES

• Doctor of Education

• Doctor of Psychology

PROFESSIONAL DEGREES

- Master of Accountancy
- Master of Business Administration
- Master of Engineering
- Master of Environmental Studies
- Master of Fine Arts
- Master of International Journalism
- Master of Music
- Master of Public Health
- Master of Public Policy and Administration
- Master of Science in Biomedical Engineering
- Master of Science in Clinical Psychology*
- Master of Science in Communication Sciences and Disorders
- Master of Science in Economics
- Master of Science in Education**
- Master of Science in Electrical and Computer Engineering
- Master of Science in Information Systems
- Master of Science in Limnology
- Master of Science in Mechanical Engineering
- Master of Taxation
- Specialist in Education

* See special conditions in Psychology section

** See School of Education for majors.

MASTER OF ARTS DEGREE PROGRAMS

- | | | |
|--|---------------------------|---------------------|
| • American Studies | • Educational Psychology | • Philosophy |
| • Biology | • English | • Physics |
| • Church-State Studies | • History | • Political Science |
| • Communication Sciences and Disorders | • International Economics | • Psychology* |
| • Communication Studies | • International Relations | • Religion |
| • Curriculum & Instruction | • Journalism | • Sociology |
| • Earth Science | • Museum Studies | • Spanish |

* See special conditions in Psychology section.

Note: A student may complete minors in the Department of Art and the program of Latin American Studies.

MASTER OF SCIENCE DEGREE PROGRAMS

- | | | |
|----------------------|---------------------------|---------------|
| • Biology | • Environmental Biology | • Mathematics |
| • Biomedical Studies | • Environmental Science | • Physics |
| • Chemistry | • Geology | • Statistics |
| • Computer Science | • International Economics | |

JOINT DEGREES

- Master of Business Administration/M.S. (Computer Science)
- Master of Business Administration/Master of Science in Information Systems
- Juris Doctor/Master of Business Administration
- Juris Doctor/Master of Taxation
- Juris Doctor/Master of Public Policy and Administration
- Master of Divinity/Master of Music (Church Music)
- Master of Engineering/Master of Business Administration
- Bachelor of Business Administration/Master of Accountancy
- Bachelor of Business Administration/Master of Taxation
- Bachelor of Science in Electrical and Computer Engineering/Master of Science in Biomedical Engineering
- Bachelor of Science in Electrical and Computer Engineering/Master of Science in Electrical and Computer Engineering
- Bachelor of Science in Electrical and Computer Engineering/Master of Engineering
- Bachelor of Science in Engineering/Master of Science in Biomedical Engineering
- Bachelor of Science in Engineering/Master of Engineering
- Bachelor of Science in Mechanical Engineering/Master of Science in Biomedical Engineering
- Bachelor of Science in Mechanical Engineering/Master of Science in Mechanical Engineering
- Bachelor of Science in Mechanical Engineering/Master of Engineering

DALLAS, TEXAS

Baylor University Louise Herrington School of Nursing

- Master of Science in Nursing
- Doctor of Nursing Practice

ACADEMY OF HEALTH SCIENCES,

U.S. ARMY MEDICAL DEPARTMENT CENTER AND SCHOOL*

San Antonio, Texas-- Ft. Sam Houston, Brooke Army Medical Center

- Master of Health Administration***
- Master of Health Administration/Master of Business Administration (joint degree)***
- Master of Science (Nutrition)***
- Doctor of Physical Therapy***
- Doctor of Science in Occupational Therapy***
- Doctor of Science in Physical Therapy***
- Doctor of Science in Physician Assistant Studies (Emergency Medicine, Clinical Orthopaedics)***

Killeen, Texas,--Ft. Hood, Darnall Army Medical Center,

- Doctor of Science in Physician Assistant Studies (Emergency Medicine)***

El Paso, Texas--Ft. Bliss, William Beaumont Army Medical Center

- Doctor of Science in Physician Assistant Studies (Emergency Medicine, Clinical Orthopaedics)***

West Point, New York--United States Military Academy,
Keller Army Community Hospital

- Doctor of Science in Physical Therapy***

Tacoma, Washington--Ft. Lewis, Madigan Army Medical Center

- Doctor of Science in Physician Assistant Studies (Emergency Medicine, Clinical Orthopaedics)

****This program is for specifically targeted federal personnel.*

DOCTORAL DEGREES

GENERAL DEGREE REQUIREMENTS

The following general requirements apply to all doctoral programs administered by the Graduate School.

Transfer Credit

The majority of all course work toward completion of any degree must be taken at Baylor. For doctoral degrees, the accepted number of transfer credits will be determined by the individual academic departments within the following general guidelines:

- course work must be from an accredited university and appear on a graduate transcript.
- course work must have been taken within five years immediately prior to matriculation,
- course work must carry a grade of “B” or better (cannot accept P/F, CR/NC or certificates of completion), and
- none of the transfer course work consists of extension, workshop courses, or master’s thesis credits.

Time Limitation

The maximum time limit for the doctoral degree is eight years from the time the student first matriculates into the doctoral program. After this time the student may request a one-year extension. Once a student’s time limit expires, any incompletes with the exception of dissertation or thesis hours will change to an “F”. Any student wishing to return to complete their degree after a one year absence, must reapply for admission to graduate school. The student would enter under the current catalog and the appropriate course work for degree completion may be revalidated or not, according to the policy of the individual program in consultation with the Graduate School. Coursework where incompletes have been changed to an “F” may not count in the new program.

Graduation Eligibility

To qualify for a doctoral degree, students must have a minimum overall grade point

average of 3.0 and must have satisfied all course work, practica, dissertation, or other academic/professional efforts associated with the degree sought. No member of the Baylor University faculty above the rank of Lecturer may be admitted to candidacy for a graduate degree at the University. Candidates are not allowed to continue in the doctoral program after ten years has elapsed from the semester of admission.

Filing for Graduation

Students file for graduation on the Graduate School website (www.baylor.edu/graduate/IntentForm) early in the semester in which the degree is expected to be conferred (see Academic Calendar in this catalog). Students pursuing a joint degree program must file for graduation in both programs or schools.

Processing of diplomas takes four to eight weeks. Because of the processing time, students who file late will not be guaranteed a diploma at the commencement ceremony. The degree is conferred at the first commencement ceremony following program completion. Ceremonies are held in August, December, and May (see [Academic Calendar](#) in this catalog). Students must be registered for at least one semester hour of graduate credit during the semester of intended graduation.

Dissertation Examining Committee Composition

The dissertation examining committee will include five members of the Baylor Graduate Faculty: the committee chairperson, two other Graduate Faculty members from the student's home department, and one additional Graduate Faculty member, either from the home department or outside, and a fifth member or "outside" member. The outside member must be a Graduate Faculty member whose primary faculty appointment is from a department other than the one conferring the student's degree. The student's mentor will serve as the chairperson of the committee and ensure that formal announcement of the examination is made, that the exam is conducted fairly, and that it is open to the faculty. The "official outside" member helps to ensure a consistent level of quality, rigor, and fairness across all graduate programs at Baylor University and may or may not be actively involved in the dissertation. The committee may include additional members (who are not necessarily members of the Graduate Faculty) beyond the minimum required number.

SPECIFIC DEGREE REQUIREMENTS

DOCTOR OF PHILOSOPHY

The degree of Doctor of Philosophy is based on the attainment of a high level of scholarship in a selected field, as well as on the demonstration of independent study, comprehensive ability to conduct research, and creative, original thought.

Admission

Students not only must meet the general requirements for admission to graduate study, but also must have demonstrated in their undergraduate courses, and in all work beyond the baccalaureate level, scholarly potential and notable intellectual ability. Admission will require the concurrence of the graduate program director and the Graduate School. A standardized appropriate measure is required and specified by all departments. Some departments specify additional skill, performance, or aptitude requirements.

Program Requirements

Period of study. The equivalent of three academic years of full-time study beyond the bachelor's degree and the completion typically of twelve semester hours of dissertation research constitute the minimum requirements for degree completion. The majority of all course work toward completion of the Ph.D. degree must be taken at Baylor. The doctorate

is not based on a number of courses or time units, but rather on the demonstrated ability to be a contributing scholar. Consequently, an individual may spend more than the minimum time earning the degree.

Foreign language requirement. The prerogative of requiring a foreign language for the Ph.D. degree rests with the degree program. For those programs requiring foreign language, the requirement will consist of one or more languages approved by the degree program in consultation with the Graduate School. English may not be used as a foreign language. Intermediate proficiency in a foreign language may be demonstrated via any one of the options below:

1. Presenting an official undergraduate transcript from Baylor University or another regionally accredited institution of higher learning showing that while enrolled the student received a grade of “B” or better in the Baylor University 2302 course or its equivalent course in the foreign language taken at another institution. Note: This option is valid if the above course was taken not more than five years before the student matriculates into the Baylor graduate program.
2. After matriculation into the graduate program at Baylor University, and after having satisfied the necessary prerequisites, enrolling in 2320 and receiving a grade of “B” or better.
3. Enrolling in French, German, or Spanish 5370/5371, or Latin or Greek 5321/5322 and receiving a grade of “B” or better in French, German, or Spanish 5371 or Latin or Greek 5322. These are reading courses designed specially for graduate students; no previous experience with the language is necessary. The Graduate School must receive a petition requesting the foreign language course be accepted as completion of the language requirement. **These courses may not be audited, or taken Pass/Fail or Credit/Non-Credit.**
4. Taking the reading examination offered by the Department of Modern Foreign Languages (Arabic, Chinese, French, German, Italian, Japanese, Spanish, Portuguese, Russian, or another modern language approved by the candidate’s department), Department of Classics (Greek and Latin), or the Institute of Biblical and Related Languages (Hebrew and related Semitic Languages).
5. Presenting a degree from a foreign university. This procedure is valid if the student’s native language is not that of the country in which the degree has been obtained.

The language requirement must be met before the form for application for admission to candidacy for the doctoral degree is filed. The student is responsible for securing proof of having satisfied the language requirement. Deadlines for meeting the language requirement may be found on the Graduate School website (www.baylor.edu/graduate/) and additional information regarding foreign language test preparation can be found on the Modern Foreign Languages website (www.baylor.edu/MFL/).

Major and Minor

Candidates are required to declare a major field of study. At the option of the department, candidates may be required to select one or two minor fields in a department(s) other than the major. Should the department not require a minor, the student may declare a minor with the consent of the departments involved.

Departmental Supervision

Graduate program directors are entrusted with the responsibility for the initial supervision for the student’s program of study. A research professor or committee, with the approval of the graduate program director and the Graduate School, assumes responsibility for the supervision of the student’s academic performance until the time of the preliminary examination.

Preliminary Examination

This examination is designed to test the student's knowledge in the discipline or field(s) of study. It is either a written examination, or a combination of written and oral parts, and is given under the direction of both the graduate program director and a committee designated by the director. Incomplete grades must be removed prior to the preliminary examination. If the student does not pass the preliminary examination, a second one may be given no sooner than four months after the first examination. After two failures, no further examination is permitted.

Admission to Candidacy

Students are recognized as candidates for a doctoral degree only after they have met the foreign language requirement (if required), passed the preliminary examination(s), completed all departmental requirements (except the dissertation), and received approval by the Graduate School of their formal application for admission to candidacy. An application for admission to candidacy form must be filed with the Graduate School upon successful completion of the above requirements, and prior to a student registering for dissertation hours.

Dissertation Supervision

This committee is appointed by the major department typically no later than the student's third semester of graduate study. The committee is entrusted with the responsibility of general supervision of the student's program of study, research, and dissertation. The committee will consist of three Graduate Faculty members: the chairperson who mentors the research and dissertation, and at least two others.

Dissertation

Candidates for the Doctor of Philosophy degree must present an acceptable dissertation on a problem in the field of their major subject. The dissertation must give evidence that the candidate has pursued a program of research, the results of which reveal scholarly competence and a significant contribution to knowledge.

Candidates should acquire the [*Guidelines for Preparing the Dissertation and Thesis*](#) and other necessary materials at the beginning of the semester in which graduation is expected. Additional "degree completion instructions" are provided to students by the Graduate School. The *Guidelines* contain the directions for the procedure to complete the dissertation, an explanation of forms necessary, the semester calendar, and a list of fees associated with the process.

Final Examination

This oral examination is conducted by an examining body appointed by the Graduate School upon the recommendation of the graduate program director only after all courses, research, and dissertation requirements have been fulfilled. The dissertation research committee is an integral part of the examining committee.

The dissertation examining committee will include five members of the Baylor Graduate Faculty: the committee chairperson, two other Graduate Faculty members from the student's home department, and one additional Graduate Faculty member, either from the home department or outside, and a fifth member or "outside" member. The outside member must be a Graduate Faculty member whose primary faculty appointment is from a department other than the one conferring the degree. The student's mentor will serve as the chairperson of the committee and ensure that formal announcement of the examination is made, that the exam is conducted fairly, and that it is open to the faculty. The "official outside" member helps to ensure a consistent level of quality, rigor, and fairness across all graduate programs at Baylor University and may or may not be actively involved in the dissertation. The committee may include additional members (who are not necessarily

members of the Graduate Faculty) beyond the minimum required number.

Candidates who fail this examination may take a second one only upon the recommendation of the graduate program director and the approval of the Graduate School. In no case will this examination be given until an interval of at least four months has elapsed. After two failures, no further examination is permitted.

No longer than ten days after the oral examination, but no later than the “last day” deadline posted in the Graduate School [Academic Calendar](#) for the semester of graduation, an electronic pdf copy of the dissertation in its final departmentally approved form should be submitted to the Graduate School. With the dissertation copy, the student should also submit the appropriate forms required, as stated in the [Guidelines](#). A student is certified for graduation once the pdf copy of the dissertation is submitted electronically and approved, and all remaining steps, as stated in the [Guidelines](#), have been completed.

DOCTOR OF EDUCATION

Through the School of Education, Baylor University offers the Doctor of Education degree. The degree program’s emphasis is on preparation for competent professional and scholarly performance.

Admission

The Doctor of Education degree requires a minimum of sixty semester hours beyond the master’s degree, and an adequate background in school administration, elementary education, secondary education, educational psychology, the history and philosophy of education, educational statistics, and educational measurement.

Students must meet not only the general requirements for admission to graduate study, but must have demonstrated in their undergraduate courses and in all work above the baccalaureate level a scholarly interest and ability considerably beyond the average. Students desiring to work at the doctoral level must apply, even though another graduate degree may have been earned at Baylor University.

The Graduate Record Examination (GRE) General Test and an interview with a committee of the graduate faculty in education are required before an application is submitted. Admission will require the concurrence of the Associate Dean of the School of Education and the Graduate School. Credit for work taken in other graduate schools must be approved by the Graduate School.

Program Requirements

Transfer credit. The policy concerning transfer, extension, and workshop courses is the same as that listed under the General Degree Requirements for Doctoral Degrees. The work must have been completed within five years prior to matriculation into the doctoral program.

Time limitation. The maximum time limit for the doctoral degree is eight years from the time the student first matriculates into the doctoral program. After this time the student may request a one-year extension. Once a student’s time limit expires, any student wishing to return to complete their degree after a one year absence, must reapply for admission to graduate school. The student would enter under the current catalog and the appropriate course work for degree completion may be revalidated or not, according to the policy of the individual program in consultation with the Graduate School.

Admission to candidacy. Admission to doctoral courses is not equivalent to admission to candidacy. Students are admitted to candidacy for the Doctor of Education degree only after they have passed the preliminary examination. Students pursuing the program for the Doctor of Education degree will be permitted to take the preliminary examination for admission to candidacy after they have completed thirty semester hours of program-approved

graduate study beyond a master's degree. This preliminary written examination should be a test of competence in the basic areas of study in education and should include general subject matter over the basic areas of education and the major area. The preliminary oral examination should be taken after students have passed the preliminary written examination. Admission to candidacy occurs after the student passes these two examinations. The preliminary examinations will be given each semester. They must be completed at least two semesters prior to the date the degree is conferred. In this case, the summer session may count as one semester. If any part of the written examination is failed, the examining committee may recommend reexamination. This may be permitted provided at least one semester lapses between examinations. No more than two failures are permitted. An application for admission to candidacy form must be filed with the Graduate School upon successful completion of the above requirements, and prior to a student registering for dissertation hours. Students must be registered for at least one semester hour of graduate credit during the semester of intended graduation.

Major and minor. After students have been admitted to candidacy, they may devote the rest of their course work to the major and minor (minimum of eighteen hours), as selected from the following areas: Curriculum and Instruction, Educational Administration, Educational Psychology, and Health, Human Performance, and Recreation (minor only).

Supervisory committee. This committee is appointed by the major department typically no later than the student's third semester of graduate study. The committee is entrusted with the responsibility of general supervision of the student's program of study, research, and dissertation. The committee will consist of three Graduate Faculty members: the chairperson who mentors the research and dissertation, and at least two others.

Research and dissertation. Candidates will be required to take courses in the fields of educational statistics, as well as the methods and techniques of research. The dissertation must give evidence of the ability to treat, in a scientific and systematic manner, an educational problem of significance to the major field of study. The Graduate School provides a range of helpful resources including [*Guidelines for Preparing the Dissertation and Thesis*](#), a [*UMI*](#) document on copyrighting, and degree certification deadlines.

Foreign Language. The Doctor of Education program has no foreign language requirement.

Final examination. This oral examination is conducted by an examining body appointed by the Graduate School upon the recommendation of the graduate program director only after all courses, research, and dissertation requirements have been fulfilled. The dissertation research committee is an integral part of the examining committee.

The dissertation examining committee will include five members of the Baylor Graduate Faculty: the committee chairperson, two other Graduate Faculty members from the student's home department, and one additional Graduate Faculty member, either from the home department or outside, and a fifth member or "outside" member. The outside member must be a Graduate Faculty member whose primary faculty appointment is from a department other than the one conferring the student's degree. The student's mentor will serve as the chairperson of the committee and ensure that formal announcement of the examination is made, that the exam is conducted fairly, and that it is open to the faculty. The "official outside" member helps to ensure a consistent level of quality, rigor, and fairness across all graduate programs at Baylor University and may or may not be actively involved in the dissertation. The committee may include additional members (who are not necessarily members of the Graduate Faculty) beyond the minimum required number.

Candidates who fail this examination may take a second one only upon the recommendation of the graduate program director and the approval of the Graduate School. In no case will this examination be given until an interval of at least four months has elapsed. After two failures, no further examination is permitted.

No longer than ten days after the oral examination, but no later than the “last day” deadline posted in the Graduate School [Academic Calendar](#) for the semester of graduation, an electronic pdf copy of the dissertation in its final departmentally approved form should be submitted to the Graduate School. With the dissertation copy, the student should also submit the appropriate forms required, as stated in the [Guidelines](#). A student is certified for graduation once the pdf copy of the dissertation is submitted electronically and approved, and all remaining steps, as stated in the [Guidelines](#), have been completed.

DOCTOR OF PSYCHOLOGY

This professional degree is offered by Baylor University through the Department of Psychology and Neuroscience. The emphasis in this degree program is on the training of clinical psychologists as scholar-practitioners to function in applied-service situations.

Admission

Students not only must meet the general admission requirements for graduate study, but must have demonstrated in their undergraduate and any postgraduate courses a scholarly and professional interest considerably above the average. Twelve hours of undergraduate psychology courses and a GRE general exam score that is predictive of success in this program are required. In addition, an autobiography, a record of relevant experience, a statement of research interests, and three letters of recommendation are required as a part of the completed application. Direct clinical or practicum-oriented experience in a closely related field is one of several major criteria used to evaluate applicants for the program. In addition, experience with and interest in clinically applied research is desired in successful applicants. Admission to this program is made only at the beginning of the second six weeks of the summer session each year, and all application materials must be received on or before January 2 of the year in which the applicant wishes to begin. Admission will require the concurrence of the chairperson of the Department of Psychology and Neuroscience and the Graduate School. Students must apply to this doctoral program even though another graduate degree may have been earned at Baylor University.

Program Requirements

Period of study. The Doctor of Psychology degree is a five-year program. Four years, including summers, consist of campus residency, including didactic and clinical practica and research totaling 107 semester hours beyond the baccalaureate degree. These courses follow a sequence established by the program faculty; a student may not alter this sequence or omit courses from the specified program without written approval by the program director. The fifth year is an internship program.

Time limitation. The maximum time limit for the doctoral degree is eight years from the time the student first matriculates into the doctoral program. After this time the student may request a one-year extension. Once a student’s time limit expires, any student wishing to return to complete their degree after a one year absence, must reapply for admission to graduate school. The student would enter under the current catalog and the appropriate course work for degree completion may be revalidated or not, according to the policy of the individual program in consultation with the Graduate School.

Foreign language requirement. There is no requirement for competency in a foreign language for the Psy.D program.

Residency. At least twelve consecutive semesters of residency are required. Summer school may count for no more than four of the semesters. Students must be registered for at least one semester hour of graduate credit during the semester of intended graduation.

Supervisory committee. The full-time clinical faculty of the Psy.D. Program, approved by the Graduate School, is entrusted with the responsibility of general supervision of the student’s program of study, clinical practica, and internship. The Director of the Clinical Training chairs this committee.

Qualifying and comprehensive examinations. There are two qualifying written examinations, one in January of the second year and the other at the end of the third year. Students must pass the qualifying examinations prior to approval for internship. If any part of the qualifying examination is failed, the examining committee may recommend reexamination. No more than one failure per examination is permitted, and at least four months must elapse between examinations.

Admission to candidacy. Admission to the doctoral program is not equivalent to admission to candidacy. Students are admitted to candidacy after successful completion of at least seventy-one semester hours of residency, and after satisfactory performance of the written qualifying examination. Formal application for admission to candidacy is made through procedures established by the Graduate School.

Integrative clinical oral examination. An integrative clinical examination including an oral examination and an integrative written examination is conducted during the fourth year. The committee for the examination will include three members of the core clinical faculty and a supervising clinician from the list of practicum appointees. If the clinical practice examination is failed, the examining committee may recommend reexamination. No more than one failure is permitted, and at least four months must elapse between examinations.

Clinical practicum. At least thirty semester hours of practicum training are required of all students. Practicum hours must be completed prior to the internship year.

Dissertation and research practicum. In the fourth year of study, each student will complete a clinical research practicum. This practicum requires six semester hours of Dissertation research and must result in a completed Dissertation in Clinical Psychology.

Dissertation supervision. A committee is designated by the graduate program director. This committee may be the same committee that assumes responsibility for the initial supervision, or it may be newly appointed. The committee that provides initial supervision is four readers, all members of Graduate Faculty. The student's mentor is the chairperson of the committee.

Dissertation. Candidates for the Doctor of Psychology degree must present an acceptable dissertation on a problem in the field of their major subject. The dissertation must give evidence that the candidate has pursued a program of research, the results of which reveal scholarly competence and a significant contribution to knowledge.

Candidates should acquire the [Guidelines for Preparing the Dissertation and Thesis](#) and other necessary materials at the beginning of the semester in which graduation is expected. The "most recent" edition of [Guidelines](#) is available on the Baylor University website. Additional degree completion materials not available on the homepage are available when they file for graduation. The [Guidelines](#) contain the directions to complete the dissertation, an explanation of forms necessary, the fees associated with the process.

Dissertation Examination. This oral examination is conducted by an examining body appointed by the Graduate School upon the recommendation of the graduate program director only after all research and dissertation requirements have been fulfilled. The dissertation research committee, consisting of three members of the departmental faculty, is an integral part of the examining committee.

The dissertation examining committee will include five members of the Baylor Graduate Faculty: the committee chairperson, three other Graduate Faculty members from the student's home department, and a fifth member or "outside" member. The outside member must be a Graduate Faculty member whose primary faculty appointment is from a department other than the one conferring the student's degree. The student's mentor will serve as the chairperson of the committee and ensure that formal announcement of the examination is made, that the exam is conducted fairly, and that it is open to the faculty. The "official

outside” member helps to ensure a consistent level of quality, rigor, and fairness across all graduate programs at Baylor University and may or may not be actively involved in the dissertation. The committee may include additional members (who are not necessarily members of the Graduate Faculty) beyond the minimum required number.

Candidates who fail this examination may take a second one only upon the recommendation of the graduate program director and the approval of the Graduate School. In no case will this examination be given until an interval of at least four months has elapsed. After two failures, no further examination is permitted.

No longer than ten days after the oral examination, but no later than the “last day” deadline posted in the Graduate School [Academic Calendar](#) for the semester of graduation, an electronic pdf copy of the dissertation in its final departmentally approved form should be submitted to the Graduate School. With the dissertation copy, the student should also submit the appropriate forms required, as stated in the [Guidelines](#). A student is certified for graduation once the pdf copy of the dissertation is submitted electronically and approved, and all remaining steps, as stated in the [Guidelines](#), have been completed.

Predoctoral internship. Each student is required to complete a predoctoral internship in the fifth year of the program at a site accredited by the American Psychological Association. Students on internship must enroll in PSY 6V01 each term while on internship.

Other requirements. Each student is required to comply in full with all additional policies and rules specified in the Psy.D. Program manual. This manual is distributed to all students enrolled in the program.

Additional information. See “Psychology and Neuroscience” in the courses section of the catalog.

DOCTOR OF PHYSICAL THERAPY

The Doctor of Physical Therapy (D.P.T.) degree is offered through an affiliation with the U.S. Army Academy of Health Sciences, Fort Sam Houston, Texas. Students are commissioned officers in one of the four uniformed services: Army, Air Force, Navy or Public Health Service. Due to the students’ active duty obligations and association with the uniformed services, certain policies and procedures governing students are unique to this program and may be found in the most current Student Handbook published by this graduate program. For a description of the prerequisites and degree requirements, see the “Affiliated Programs” section of this catalog.

DOCTOR OF SCIENCE IN OCCUPATIONAL THERAPY

Baylor University offers the Doctor of Science degree in Occupational Therapy (D.Sc.O.T.), in affiliation with the U.S. Army Medical Department Center and School (AMEDDC&S). This degree is an advanced-practice postprofessional clinical doctorate designed to meet the professional development and specialty needs of Army occupational therapists. The didactic, clinical and research components of the program are presented at Brooke Army Medical Center and additional facilities at Ft. Sam Houston in San Antonio, Texas. The program is designed for active-duty personnel who hold the master’s degree in occupational therapy or who hold the baccalaureate degree in occupational therapy with at least nine additional hours of post-professional clinical graduate credits. For a description of the prerequisites and degree requirements, refer to the “Affiliated Programs” section of this catalog.

DOCTOR OF SCIENCE IN PHYSICAL THERAPY

Baylor University offers the Doctor of Science degree in Physical Therapy (D.Sc.P.T.), major in Orthopaedics, in affiliation with the U.S. Army, at two locations. The concentration for the program offered at Brook Army Medical Center, Fort Sam Houston in San Antonio, Texas, is Orthopaedic Manual Physical Therapy. For the program offered at Keller Army Community Hospital at the United States Military Academy, West Point, New York, the concentration is Sports Medicine and Primary Care.

The program mission is to produce active duty, post-graduate-level specialty trained physical therapists who provide state-of-the-art, advanced care and clinically relevant research to benefit the Military Health System. Further information is presented in the [“Affiliated Programs”](#) section of this catalog.

DOCTOR OF SCIENCE IN PHYSICIAN ASSISTANT STUDIES

Baylor University offers the Doctor of Science degree in Physician Assistant Studies (D.Sc.P.A.S.), major in Emergency Medicine and in Clinical Orthopaedics, in affiliation with the U.S. Army Medical Department Center and School. The program is designed for active-duty personnel who already hold the master’s degree in physician assistant studies. The curriculum provides advanced education and training to further enhance the abilities of clinicians to save soldiers’ lives on the battlefield and to serve Military Health System beneficiaries. For a description of prerequisites and degree requirements, refer to the [“Affiliated Programs”](#) section of this catalog.

MASTER’S DEGREES GENERAL DEGREE REQUIREMENTS

The following general requirements apply to all master’s programs administered by the Graduate School.

Content of Graduate Program

A minimum of thirty semester hours will be required. A minimum of one-half of the semester hours required for the master’s program, exclusive of thesis credits, must be in courses numbered at the 5000 level. Specific graduate programs may require more than the minimum number of hours.

Transfer Credit

For master’s degrees, the accepted number of transfer credits will be determined by the individual academic departments within the following general guidelines:

- 25 percent of the required Baylor course work (excluding internships, practica, and theses) may be petitioned for transfer,
- the total number of transferred credits may not exceed fifteen semester hours,
- course work must be from an accredited university and appear on a graduate transcript,
- course work must have been taken within the five years immediately prior to matriculation,
- course work must carry a grade of “B” or better (cannot accept P/F, CR/NC, or certificate of completion, and
- none of the transfer course work consists of extension or transfer courses.

Time Limitation

The maximum time limit for the master's degree is five years from the time the student first matriculates into the master's program. After this time, the student may request a one-year extension. Once a student's time limit expires, any incompletes with the exception of dissertation or thesis hours will change to an "F". Any student wishing to return to complete their degree after a one year absence, must reapply for admission to graduate school. The student would enter under the current catalog and the appropriate course work for degree completion may be revalidated or not, according to the policy of the individual program in consultation with the Graduate School. Coursework where incompletes have been changed to an "F" may not count in the new program.

Graduation Eligibility

To qualify for a master's degree, students must have a minimum overall grade point average of 3.0 and must have satisfied all course work, practica, project, thesis, or other academic/professional efforts associated with the degree sought. No member of the Baylor University faculty above the rank of Lecturer may be admitted to candidacy for a graduate degree at the University.

Filing for Graduation

Students file for graduation on the Graduate School website in the first two weeks of classes within the semester in which the degree is expected to be conferred (see [Academic Calendar](#) in this catalog). Students can file online at www.baylor.edu/IntentForm. Students pursuing a joint degree program must file for graduation in both programs or schools. For a list of offices in which to file go to the commencement website [jtg0](#)

Processing of diplomas takes four to eight weeks. Because of the processing time, students who file late will not be guaranteed a diploma at the commencement ceremony. The degree is conferred at the first commencement ceremony following program completion. Ceremonies are held in August, December, and May (see [Academic Calendar](#) in this catalog). Students must be registered for at least one semester hour of graduate credit during the semester of intended graduation.

Committee Composition

The thesis examining committee will include three members of the Baylor Graduate Faculty: the committee chairperson, one other Graduate Faculty member from the student's home department, and a third member, or "outside" member. The outside member must be a Graduate Faculty member whose primary faculty appointment is from a department other than the one conferring the student's degree. The student's mentor will serve as the chairperson of the committee and ensure that formal announcement of the examination is made, that the exam is conducted fairly, and that it is open to the faculty. The "official outside" member helps to ensure a consistent level of quality, rigor, and fairness across all graduate programs at Baylor University and may or may not be actively involved in the thesis. The committee may include additional members (who are not necessarily members of the Graduate Faculty) beyond the minimum required number.

SPECIFIC DEGREE REQUIREMENTS

MASTER OF ARTS

The Master of Arts degree is available to persons who have a bachelor's degree from an accredited college and who meet the minimal requirements described below.

Foreign Language

The prerogative of requiring a foreign language for the M.A. degree rests with the degree program. M.A. students enrolled in degree programs which require a foreign language may fulfill this requirement by demonstrating intermediate proficiency via any one of the options below:

1. Presenting an official undergraduate transcript from Baylor University or another regionally accredited institution of higher learning showing that while enrolled the student received a grade of “B” or better in the Baylor University 2320 course or its equivalent course in the foreign language taken at another institution. Note: This option is valid if the above course was taken not more than five years before the student was accepted into the Baylor graduate program.
2. After matriculation into the graduate program at Baylor University, and after having satisfied the necessary prerequisites, enrolling in 2320 and receiving a grade of “B” or better.
3. Enrolling in French, German, or Spanish 5370/5371, or Latin or Greek 5321/5322 and receiving a grade of “B” or better in French, German, Spanish 5371, or Latin or Greek 5322. These are reading courses designed specially for graduate students; no previous experience with the language is necessary. The Graduate School must receive a petition requesting the foreign language course be accepted as completion of the language requirement. **These courses may not be audited, or taken as Pass/Fail or Credit/Non-Credit.**
4. Taking the reading examination offered by the Department of Modern Foreign Languages (Arabic, Chinese, French, German, Italian, Japanese, Spanish, Portuguese, Russian, or another modern language approved by the candidate’s department), Department of Classics (Greek and Latin), or the Institute of Biblical and Related Languages (Hebrew and related Semitic Languages).
Note: Students in International M.A. degree programs (Master of Arts and Master of Science in international economics, Master of International Journalism) must pass an oral examination in addition to the reading examination (Option #4). Bona fide foreign international M.A. students may use English as their foreign language, provided their TOEFL (Test of English as a Foreign Language) score is 550 or higher.
5. Presenting a degree from a foreign university. This procedure is valid if the student’s native language is not that of the country in which the degree has been obtained.

The student is responsible for securing proof of having satisfied the language requirement. Deadlines for meeting the language requirement may be found on the Graduate School website (www.baylor.edu/graduate/) and additional information regarding foreign language test preparation can be found on the Modern Foreign Languages website (www.baylor.edu/MFL/).

Graduate Hours

Minimally, thirty semester hours of graduate course work are required for a thesis program, and thirty-three semester hours are minimally required for a non-thesis degree. Individual degree programs have the option of increasing the required number of semester hours. The programs also set the required minimum thesis credits which typically consist of six semester hours. The minimum number will apply for all students in the program.

Approved Major and Minor

Students may have no more than two fields of graduate study. They may earn no fewer than eighteen semester hours in the major field, and no fewer than six semester hours in the minor field. The minor field must be approved by the chairpersons of **both** the major and minor departments. With the approval of the major professor and the Graduate

School, a student may include a limited number of courses from allied fields as part of the major program, or in lieu of a minor. If the degree program offers a sufficient number of graduate courses to satisfy degree completion, the course work can be completed within one department.

Thesis

The prerogative of requiring a thesis for the Master of Arts degree rests with the degree program. Should a thesis be required, the following requirements apply:

1. The chairperson of the department and/or the graduate program director approve both the thesis topic and the chairperson of the thesis committee. The thesis committee chairperson must be a member of the Baylor Graduate Faculty.
2. The chairperson of the department or the graduate program director, in consultation with both the candidate and the committee chairperson, will identify the members of the thesis committee. The thesis examining committee will include three members of the Baylor Graduate Faculty: the committee chairperson, one other Graduate Faculty member from the student's home department, and a third member or "outside" member. The outside member must be a Graduate Faculty member whose primary faculty appointment is from a department other than the one conferring the student's degree. The student's mentor will serve as the chairperson of the committee and ensure that formal announcement is made, that the exam is conducted fairly, and that it is open to the faculty. The "official outside" member helps to ensure a consistent level of quality, rigor, and fairness across all graduate programs at Baylor University and may or may not be actively involved in the thesis. The committee may include additional members (who are not necessarily members of the Graduate Faculty) beyond the minimum required number.
3. The thesis committee will approve the general plan of the research project and the topic of the thesis.
4. Candidates are expected to consult with the members of their committee and to acquire the approval of the committee as well as the major department chairperson of the completed draft of the thesis. Candidates should acquire [Guidelines for Preparing the Dissertation and Thesis](#) and other necessary materials at the beginning of the semester in which graduation is expected. The most recent edition of the [Guidelines](#) is available on the [Baylor I tcf wcg Uej qqn homepage](#).
5. No longer than ten days after the oral examination, but no later than the "last day" deadline posted in the Graduate School [Academic Calendar](#) for the semester of graduation, an electronic pdf copy of the thesis in its final departmentally approved form should be submitted to the Graduate School. With the thesis copy, the student should also submit the appropriate forms required, as stated in the [Guidelines](#). A student is certified for graduation once the pdf copy of the thesis is submitted electronically and approved, and all remaining steps, as stated in the [Guidelines](#), have been completed.

Examinations

Candidates in **thesis programs** who complete the required program of study and a satisfactory thesis will take an oral examination. The format of the examination will be determined by the student's major department.

Candidates in **non-thesis** programs who complete the required program of study and any other special degree requirements will take a comprehensive oral examination as determined by the major and, if applicable, minor departments. (A written examination may be required in lieu of the oral examination as a matter of policy only with the prior written approval of the Graduate School.) At the option of a school/department, both an oral and a written examination may be required.

The following policies should be noted regarding the oral examination:

1. All incomplete grades (except in a thesis or scientific research course) must be removed prior to the final oral or written examination.
2. The examination will be conducted by a minimum of two Graduate Faculty Members in the student's major degree program and one pre-approved "outside" member. The "official outside" member must be a Graduate Faculty member whose primary faculty appointment is from a department other than the one conferring the student's degree. The committee must be approved 10 working days prior to the examination by the Graduate School.
3. The examination should give the candidate the opportunity to defend the intellectual substance of the thesis, including the structure of the argument advanced, the methodology used, and the interpretation offered.
4. The examination should be taken by the published deadline for meeting graduation requirements for any given semester. The candidate should arrange the date of the examination with the chairperson of the examination committee and acquire approval of this date from the Graduate School.
5. If a candidate fails the comprehensive examination, a second examination may be taken contingent upon the approval of both the department(s) concerned and the Graduate School. No reexamination may be conducted until at least four months has elapsed. (Students in the U.S. Army-Baylor Health Care Administration program are required to take the reexamination within four months from the date of the initial board.) After two failures, no further examination is permitted.

MASTER OF SCIENCE

The Master of Science degree, which is offered through facilities in either Waco or Dallas, is offered to students who have earned a bachelor's degree from an accredited university or college. The requirements for this degree are the same as for the Master of Arts degree, except that there is no foreign language requirement.

PROFESSIONAL DEGREES

Master of Accountancy

The Master of Accountancy degree is offered to students who have earned a bachelor's degree from an accredited university or college. For further information and requirements, see the "[School of Business](#)" section.

Master of Business Administration

The Master of Business Administration degree is offered to students who have earned a bachelor's degree from an accredited university or college. Degree plans are tailored to accommodate undergraduate majors in both business and non-business fields. For further information and requirements, see the "[School of Business](#)" section.

Master of Engineering

The Master of Engineering degree is offered to students who have earned an appropriate bachelor's degree from an accredited university or college. For further information and degree requirements, see the "[Departments of Engineering](#)" section.

Master of Environmental Studies

The Master of Environmental Studies degree is offered to students who have earned a bachelor's degree from an accredited university or college. For a description of the prerequisites and degree requirements, see the "[Environmental Science](#)" section.

Master of Fine Arts

The Master of Fine Arts degree in directing is offered to students who have earned a bachelor's degree from an accredited university or college and whose career goal is a profession in which this degree would ordinarily be considered a terminal degree. For a description of the prerequisites and degree requirements, see the "[Theater Arts](#)" section.

Master of Health Administration

The Master of Health Administration degree is offered through an affiliation with the U.S. Army, Academy of Health Sciences, Fort Sam Houston, Texas. This program is for specifically targeted federal personnel. For a description of the prerequisites and degree requirements, see the "[Affiliated Programs](#)" section.

Master of Health Administration/Master of Business Administration

The MHA/MBA joint degree is offered through an affiliation with the U.S. Army, Academy of Health Sciences, Fort Sam Houston, Texas. This program is only open to qualified students attending the Army-Baylor MHA or MHA/MBA program. For a description of the prerequisites and degree requirements, see the "[Affiliated Programs](#)" section.

Master of International Journalism

The Master of International Journalism degree is offered to students who have earned a bachelor's degree from an accredited university or college. For a description of the prerequisites and degree requirements, see the "[Journalism](#)" [cpf](#) [O g f k](#) [C t u](#)" section.

Master of Music

The Master of Music degree is offered to students who have earned a bachelor's degree in music from an accredited university or college. For a description of the prerequisites and requirements for this degree, see the "[Music](#)" section.

Master of Public Health

The Master of Public Health degree is offered to students who have earned a bachelor's degree from an accredited university or college. For a description of the prerequisites and requirements for this degree, see the "[Health, Human Performance, and Recreation](#)" section.

Master of Public Policy and Administration

The Master of Public Policy and Administration degree is offered to students who have earned a bachelor's degree from an accredited university or college. For a description of the prerequisites and requirements for this degree, see the "[Political Science](#)" section.

Master of Science in Biomedical Engineering

The Master of Science in Biomedical Engineering degree is offered to students who have earned an appropriate bachelor's degree from an accredited university or college. For further information and degree requirements, see the "[Departments of Engineering](#)" section.

Master of Science in Communication Sciences and Disorders

The Master of Science in Communication Sciences and Disorders degree is offered to students who have earned a bachelor's degree from an accredited university or college and whose career goal is a profession in which this degree would ordinarily be considered a part of an individual's professional growth and development. For a description of the prerequisites and degree requirements, see the "[Communication Sciences and Disorders](#)" section.

Master of Science in Economics

The Master of Science in Economics degree is offered to students who have earned a bachelor's degree from an accredited university or college and who intend to seek full time employment or enter a Ph.D. program in economics after graduation. For a description of the prerequisites and degree requirements, see the "[Economics](#)" section.

Master of Science in Education

The Master of Science in Education degree is offered to students who have earned a bachelor's degree from an accredited university or college, and whose career goal is a profession in which this degree would ordinarily be considered desirable for an individual's professional growth and development. For a description of the prerequisites and degree requirements, see the "[Education](#)" section.

Master of Science in Electrical and Computer Engineering

The Master of Science in Electrical and Computer Engineering degree is offered to students who have earned an appropriate bachelor's degree from an accredited university or college. For further information and degree requirements, see the "[Departments of Engineering](#)" section.

Master of Science in Information Systems

The Master of Science in Information Systems degree is offered to students who have earned a bachelor's degree from an accredited university or college. For further information and requirements, see the "[School of Business](#)" section.

Master of Science in Limnology

The Master of Science in Limnology is a specialized degree for students who wish to receive advanced education in limnology. As limnology is a field comprising not only biological, but also physical, chemical, geological, and other subdisciplines, a bachelor's degree in biology is not required for admission. For more information, see the "[Biology](#)" section.

Master of Science in Mechanical Engineering

The Master of Science in Mechanical Engineering degree is offered to students who have earned an appropriate bachelor's degree from an accredited university or college. For further information and degree requirements, see the "[Departments of Engineering](#)" section.

Master of Science in Nursing

The Master of Science in Nursing is offered at the Baylor University School of Nursing in Dallas. Individuals interested in pursuing this degree must be a registered nurse with a bachelor's degree in any field. For a description of the prerequisites and degree requirements, see the "[Nursing](#)" section.

Master of Science in Nutrition

The Master of Science in Nutrition degree is offered through an affiliation with the U.S. Amry, Academy of Health Sciences, Fort Sam Houston, Texas. This program is for specifically targeted federal personnel. For a description of the prerequisites and degree requirements, see the "[Affiliated Programs](#)" section.

Master of Taxation

The Master of Taxation degree is offered to students who have earned a bachelor's degree from an accredited university or college. For a description of the prerequisites and degree requirements, see the "[School of Business](#)" section.

Specialist in Education

This degree is open to students who demonstrate promise in certain fields of education and who desire to gain additional proficiency in these fields. For additional information see the "[Education](#)" section.

Curriculum

Departments and Institutes of Instruction

[American Studies](#)

[Art](#)

[Asian Studies](#)

[Biblical and Related Languages,
Institute of](#)

[Biology](#)

[Biomedical Studies, Institute of](#)

[Hankamer School of Business](#)

[Chemistry and Biochemistry](#)

[Church-State Studies, J.M. Dawson
Institute of](#)

[Communication Sciences and
Disorders](#)

[Communication Studies](#)

[Earth Science](#)

[Ecological, Earth, and
Environmental Sciences, the Institute
for](#)

[Education, School of](#)

[Engineering and Computer Science](#)

[English](#)

[Environmental Science](#)

[Family and Consumer Science](#)

[Geology](#)

[History](#)

[Journalism and Media Arts](#)

[Latin American Studies](#)

[Mathematics](#)

[Museum Studies](#)

[Music, School of](#)

[Nursing, Louise Herrington
School of](#)



[Philosophy](#)

[Physics](#)

[Political Science](#)

[Psychology and Neuroscience](#)

[Religion](#)

[Sociology](#)

[Spanish](#)

[Statistical Science](#)

[Theater Arts](#)

DEPARTMENTS AND INSTITUTES OF INSTRUCTION

All departments listed in the following pages offer graduate work in the major and minor fields except those marked minor only. Where prerequisite courses are listed, these courses or their equivalent must be included in the undergraduate preparation for graduate study. Such prerequisite courses do not count for graduate credit.

AMERICAN STUDIES

Director: Douglas R. Ferdon

The graduate program in American Studies is an interdisciplinary program offering comprehensive study in American institutions and culture. The basic program consists of courses in American history and American literature.

Prerequisites for graduate work in American studies must include twenty-one semester hours in any one or in any combination of the following areas: American history, government, literature, and philosophy; history of American education; history of religion in America; and American sociological problems. There is no foreign language requirement. Applicants must submit a Graduate Record Examination (GRE) General Test score; a GRE score and a GPA predictive of success in this program are recommended.

Graduate work in American Studies for the Master of Arts degree consists of thirty semester hours, at least fifteen of which must be in courses numbered above 5000. Distribution requirements are as follows:

a. Core	9 sem. hrs.
AMS 5V99 (6 hours)	
AMS 4385	
b. Three courses cross-listed with English, history, or journalism	9 sem. hrs.
c. One research methods class from English, history, or journalism	3 sem. hrs.
d. Electives	9 sem. hrs.
To be chosen from American Studies courses approved for graduate credit (see listings).	
Total	30 sem. hrs.

All courses taken for graduate credit must be approved by the Director of American Studies.

ART

Chairperson: John D. McClanahan

The Department of Art offers a minor in art education in collaboration with the Department of Curriculum and Instruction (School of Education) as part of the Master of Arts (M.A.) or Master of Science in Education (M.S.Ed.) degree programs. The minor affords advanced study in art history, studio art, or a combination of these.

The M.A. (30 semester hours) requires a thesis oriented toward art education. The M.S.Ed. (36 semester hours) is composed of course work only. The minimal course work for a minor in Art for either degree is 15 semester hours of art course work at the graduate level, allocated as (1) 9 semester hours in advanced art history or advanced studio art and (2) 6 semester hours in special problems in art history or studio art. No foreign language is required for a minor in Art.

In addition to meeting the admission requirements of the Graduate School and the Department of Curriculum and Instruction, the applicant must have completed or qualify for the All-level Teaching Certificate in Art. Additionally, the studio art faculty must be familiar with the applicant's art abilities either as a student or by means of a portfolio of art work. The Department of Art will evaluate the student's progress after one semester. The Department of Art requires a solo exhibition which becomes part of the final examination. Further, the Department of Art will retain two examples of student work for its permanent collection.

Art History

- ART 4357 American Art
- ART 4358 Contemporary Art
- ART 4375 Art Theory and Criticism

Studio Art

- ART 4320 Watercolor Painting
- ART 4321 Advanced Painting
- ART 4324 Advanced Intaglio
- ART 4325 Advanced Lithography
- ART 4330 Illustration
- ART 4331 Package Design
- ART 4332 Corporate Design
- ART 4334 Photography IIIA (Color)

Special Problems in Art or Art History

- ART 4V90 Special Problems in Studio Art
- ART 4V91 Special Problems in Art History

Students wishing to pursue a minor in art on the graduate level must be approved by the appropriate art instructor and the Chair of the Department of Art.

ASIAN STUDIES

The Asian Studies program provides opportunities for study and research of the diverse societies that inhabit the Asian continent, from the Ural Mountains to Southeast Asia. The program takes as its geographical focus the regions of Eurasia and the Asia-Pacific. Interdisciplinary in approach, the program spans the fields of economics, foreign languages, history, political science, sociology, and religion, and is dedicated to providing opportunities for foreign study and field experiences.

While no graduate degree is offered in Asian Studies, the following courses are approved for graduate credit in other programs.

- AST 4305 Modern China (HIS 4305)
- AST 4310 Societies and Cultures of East Asia (ANT 4310)

AST 4325	Asian International Relations (PSC 4325)
AST 4340	East Asian Philosophy (PHI 4340)
AST 4346	Religions of India, China, and Japan
AST 4350	Seminar in Asian Studies
AST 4364	The Governments and Politics of the Asia-Pacific Region (PSC 4364)
AST 4374	Governments and Politics of East Asia (PSC 4374)
AST 4376	Asian Literature in Translation (MFL 4376)
AST 4V80	Contemporary Issues in Asian Studies
AST 4390	Reading and Research in Asian Studies (PSC 4390)

Institute of BIBLICAL AND RELATED LANGUAGES

The Institute of Biblical and Related Languages provides an academic minor for students seeking specialization in the languages in which the Biblical texts were written and in related languages from the Middle East. This will provide training in linguistic preparation appropriate for teaching, ministry, research, Bible translation, and other fields of work.

A minor consists of twelve semester hours from the courses listed below.

Akkadian (AKK)

AKK 5307	Akkadian
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Aramaic (ARA)

ARA 4303	Aramaic
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Greek – Biblical (GKB)

GKB 5317	Seminar in New Testament Greek
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Hebrew (HEB)

HEB 5309	Selected Documents from the Hebrew Scriptures
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Syriac (SYR)

SYR 5305	Syriac
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Ugaritic (UGA)

UGA 5306	Ugaritic
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BIOLOGY

Chairperson: Robert D. Doyle

Graduate Program Director: Myeongwoo Lee

The Department of Biology offers advanced study leading to doctoral (Ph.D.) and master's (M.S., M.A.) degrees with emphases in ecology and evolutionary biology and in molecular, cellular, and developmental biology.

Doctoral Program

Advanced study leading to the Ph.D. in biology is offered in ecology and evolutionary science and in molecular, cellular, and developmental biology. A B.S. or B.A. degree in biology or appropriate related discipline is required for admission to graduate study in this program. Applicants must also submit official scores from the Graduate Record Examination (GRE) General Test, taken within the last five years, that are predictive of success in this

program. Another required component of the application is the “mentor’s statement”, a written statement provided by a Biology (or affiliated) graduate faculty member indicating that the professor and applicant have conferred and have agreed to work together in a mentor-student relationship. Students entering the program with graduate-level course work may petition to apply up to twenty-four semester hours of approved courses toward the Ph.D. Additional hours beyond twenty-four may be considered on a course-by-course basis by the Graduate Committee. Thesis hours are not transferable toward doctoral requirements.

A minimum of seventy-eight semester hours beyond the bachelor’s degree is required for the Ph.D. At least thirty-six semester hours of this must consist of course and laboratory work, excluding BIO 6V99, Dissertation. Dissertation (minimum of twelve semester hours) and its associated research generally comprise the remaining forty-two semester hours, although a portion may be devoted to additional course and laboratory work at the discretion of the student’s advisory/dissertation committee. The dissertation advisor will be a member of the Biology graduate faculty or approved graduate faculty in affiliated life-science departments or programs at Baylor University.

Ten semester hours of the required thirty-six semester hours of course and laboratory work are to include the following courses: Research Methods in Biology (BIO 5201), Biometrics (BIO 5412), and Seminar (BIO 5100, BMS 5100; minimum of 4 hours). Appropriate courses may be substituted for Biometrics (e.g., STA 5300) as approved by the student’s advisory committee and graduate program director.

A maximum of eight combined hours of BIO 5100 and BMS 5100 (or other approved seminars) may count toward degree requirements; repeat credit requires change in topic from previous registrations. If the student has successfully completed the equivalents of these courses in a master’s program, then the student’s advisory committee may petition the Graduate Committee to waive these courses.

The remaining twenty-six semester hours of required course work (including laboratory research) must include a minimum of twelve semester hours at the 5000/6000 level. A maximum of nine hours of Special Problems (BIO 5V90) can be applied toward doctoral degree requirements. Judicious selection of courses, assisted by the faculty mentor, facilitates specialization in ecology and evolutionary biology or in molecular, cellular and developmental biology. The committee will consist of at least five graduate faculty, including the student’s major professor, three graduate faculty members from the Department of Biology, and a Graduate School representative. Additional members from appropriate disciplines may also serve on dissertation committees. The committee will be chosen by the major professor and student in consultation with the Graduate Program Director in Biology.

A written Ph.D. comprehensive examination will be prepared by the Biology Graduate Program faculty. This will be administered during the 4th semester following the students entry into the program. The oral portion of the examination will encompass a defense of the student’s dissertation proposal presented and evaluated by the student’s committee. The Biology written exam will cover basic concepts in areas appropriate to the student’s background and emphasis (ecology and evolutionary biology, or molecular, cellular and developmental biology) and will determine the student’s readiness to begin dissertation research. The concept areas for students specializing in ecology and evolutionary biology includes ecology and environmental science, structure and function, and evolution. The concept areas for students specializing in genetics and molecular and medical biosciences include cell and molecular biology, genetics, and evolution. Doctoral students in both emphases must demonstrate familiarity with the scientific literature, and expertise in experimental design, in collection and analysis of data, and in interpretation of results in subject areas pertinent to the student’s dissertation research. After completion of a doctoral dissertation, that includes a mandatory publication in a recognized national or international scientific journal, the candidate has a final oral examination involving defense of the dissertation. Doctoral students present a public exit seminar based on the dissertation.

Doctoral degree program students must fulfill a one-year teaching requirement under the mentorship of a faculty member. This usually involves assisting in undergraduate laboratory course instruction as a graduate teaching assistant or serving as instructor-of-record in a lecture course.

There is no foreign language requirement for the Ph.D. degree in Biology. However, individual advisors and committees may require students to satisfy a language requirement or demonstrate special research skills through formal course work at the graduate level.

Master's Programs

Applicants who have completed a major in a biological science or appropriate related discipline and who present grade point averages and GRE General Test scores (taken within the last five years) that are predictive of success in this program may be admitted to the master's degree program. The M.S. degree is offered in Biology, in Environmental Biology, and in Limnology. The M.A. degree is offered in general Biology and Biology with a health profession concentration. The minimum requirement for M.S. degrees is thirty semester hours, including six semester hours of research (BIO 5V99) leading to an acceptable thesis. The minimum requirement for the M.A. degrees, which are non-thesis, are thirty semester hours of graduate course work.

Research Methods in Biology (BIO 5201) and Biometrics (BIO 5412) are required for all master's programs. Appropriate courses may be substituted for Biometrics (e.g., STA 5300) as approved by the student's advisory committee and graduate program director. Up to four hours of Seminars in Biology (BIO 5100), Biomedical Seminar (BMS 5100) or other appropriate seminars approved by the student's committee and graduate program director may be applied toward a master's program; repeat credit requires a change in topic from previous registrations. Not more than six hours of Special Problems in Biology (BIO 5V90) may be applied toward master's degree requirements. Master's students present a public exit seminar based on the thesis (M.S. degrees) or other approved topic (M.A. degree). During the final semester, master's students will have an oral examination comprising (1) demonstration of master's level knowledge in the concept areas associated with their area of emphasis, according to the particular degree program, and, for M.S. degrees, (2) defense of the thesis and (3) demonstration of proficiency in scientific investigation. There is no foreign language requirement or teaching requirement for master's degrees in Biology.

For master's students, the major professor and the graduate program director in consultation with the student will select a thesis committee before the research is begun. The complete committee should be assembled by the end of the student's second semester. The major professor will be a member of the Biology graduate faculty or approved graduate faculty in affiliated life-science departments or programs at Baylor University. The committee consists minimally of three graduate faculty members, professors, including the major professor, a member of the Biology Department faculty and a graduate faculty member from a department other than Biology. Additional faculty may be included on the committee. The committee is involved in the development of the thesis proposal, and must approve the proposal before thesis research begins.

The *M.S. degree in Biology* is for those interested in developing an area of biological expertise through course work and an in-depth research experience that culminates in a thesis. Students may follow either of two emphases: ecology and evolutionary biology, or molecular, cellular, and developmental biology. The concept areas for students specializing in ecology and evolutionary biology include ecology and environmental science, structure and function, and evolution. The concept areas for students specializing in molecular, cellular, and developmental biology include cell and molecular biology, genetics, and evolution. Students in both emphases must demonstrate familiarity with the scientific literature, and expertise in experimental design, in collection and analysis data, and in interpretation of results in subject areas pertinent to the student's thesis research. The majority of course work

is in Biology, although graduate courses in allied areas (e.g., Biomedical Studies, Health Sciences, Environmental Studies) may be taken with approval of the student's committee and graduate program director.

The *M.S. degree in Environmental Biology* is for those interested in applied environmental biology. Course work and research emphasize the solution of current environmental problems. Degree requirements include at least eighteen semester hours of approved Biology courses, of which twelve semester hours must be at the 5000 level, and six semester hours from approved graduate courses in the Department of Environmental Sciences. The concept areas in this track include terrestrial and aquatic ecology, invasion and conservation ecology, environmental pollution, environmental management, and environmental ethics. Students also must demonstrate familiarity with the scientific literature, and expertise in experimental design collection and analysis of data, and in interpretation of results in subject areas pertinent to student's thesis research.

The *M.S. degree in Limnology* is a specialized degree for students who wish to receive advanced education in limnology. Because many students bring diverse undergraduate backgrounds (including biology, other sciences, math, or engineering) to this program, a bachelor's degree in biology is not required for admission. Admission requirements include approval of the Graduate Committee. The concept areas in this track include limnology, aquatic ecology, invasion ecology of freshwater systems, restoration and conservation ecology of reservoir systems, and environmental policy related to water quality and use. Students also must demonstrate familiarity with the scientific literature, and expertise in experimental design, in collection and analysis of data, and in interpretation of results in subject areas pertinent to the student's thesis research.

The purpose of the general *M.A. degree in Biology* is to provide students with advanced education in either ecology and evolutionary biology, or molecular, cellular, and developmental biology. This non-thesis degree emphasizes a broader exposure to biology through course work than is possible in the more-specialized M.S. degrees, where students focus on a specialized research topic. The majority of course work is in Biology, although graduate courses in allied areas (e.g., Biomedical Studies, Health Sciences, Environmental Studies) may be taken with approval of the student's committee and graduate program director. The concept areas for M.A. students specializing in ecology and evolutionary biology include ecology and environmental science, structure and function, and evolution. The concept areas for students specializing in molecular, cellular, and developmental biology include cell and molecular biology, genetics, and evolution.

The purpose of the M.A. degree in Biology with a health profession concentration is to provide advanced education in biological topics specific for students pursuing a professional career in health care. This degree program is expected to be completed in a single year to serve students applying for health-related graduate programs. The student will select an intensive research topic that will be guided by a research mentor that will culminate with a required research seminar and defense. This research topic will be developed through taking 5 to 6 hours of Independent Studies (BIO 5V90) with a selected mentor. In addition to the core curriculum, students will select approved courses from "essential" areas that are consistent with a general biology degree and pre-health training that is important to the future of medical education. These areas include: Cellular Foundation, Genetics, and Disease Etiology and Human Response. Students will take at least one course from each of these areas as they complete the coursework requirement for the degree. No more than 12 hours may be taken at the 4000 level. The following are current courses that apply to these essential areas: 1) Cellular Foundation- BIO 4107, BIO 4108, BIO 4303, BIO 4307, BIO 4308, BIO 4426, 2) Genetics – BIO 4106, BIO 4306, BIO 4330, BIO 5306, BIO 5311, BIO 5400, BIO 5425, and 3) Disease Etiology and Human Response – BIO 4104, BIO 4123, BIO 4304, BIO 4323, BIO 4401, BIO 5302, BIO 5303, BIO 5310, BIO 5401. Other graduate courses in biology may be taken as electives in addition to courses in these areas.

Institute of BIOMEDICAL STUDIES

Director: Robert R. Kane

The M.S. and Ph.D. degrees are offered in the Institute of Biomedical Studies, an interdisciplinary program involving faculty from the Departments of Biology, Chemistry and Biochemistry, Environmental Science, Human Health and Performance, Philosophy, and Psychology and Neuroscience in Waco and from the Baylor University Medical Center, and the Mary Crowley Medical Research Center in Dallas.

Admission

An undergraduate degree (B.S. or B.A.) in a relevant discipline in the biomedical sciences including (but not limited to) biochemistry, biology, chemistry, or immunology is required for admission. The GRE General Test is also required. Recommended undergraduate coursework includes advanced courses in Biochemistry, Molecular Biology, Cell/Developmental Biology, Immunology, and Microbiology.

Degree Requirements

M.S. Requirements: A minimum of thirty semester hours and successful completion of an M.S. thesis. A person may elect, instead, to obtain a non-thesis degree by completing thirty-six semester hours, eighteen of which are at or above the 5000 level.

Ph.D. Requirements: A minimum of seventy-eight semester hours. Additional requirements include a Ph.D. preliminary examination and completion of the Ph.D. dissertation. There is no foreign language requirement.

Committees: The Dissertation or Thesis Committee will be under the direction of the faculty member who directs the research. In either case the research project and its successful completion must be fully acceptable to the Director of the Institute and to all members of the Dissertation or Thesis Committee.

Curriculum

The curriculum will be tailored to each individual student's need as determined by the student's Advisory Committee, and agreed upon by the Graduate Program Director.

MASTER OF SCIENCE

Thesis Option

A minimum of thirty semester hours is required, including a minimum of twelve semester hours of 5000-level work (excluding BMS 5V99, BMS 5V95, and BMS 5100).

Required Courses	sem. hrs.
BMS 5V99 Master's Thesis	6
BMS 5100 Biomedical Seminar	3
Required each semester. A maximum of three semester hours will count toward the M.S. degree.	
Electives (5000 level or above excluding 5V95, 5V99, 5100)	12
Electives (4000 level or above excluding 5100, 5V99)	9
Total	30 s.h.

Non-Thesis Option

A minimum of thirty-six semester hours is required, including a minimum of eighteen semester hours at the 5000-level (excluding BMS 5100).

BMS 5100 Biomedical Seminar	3
Required each semester. A maximum of three semester hours will count toward the M.S. degree.	

Electives (5000-level or above excluding 5V95, 5V99, 5100)	18
Electives (4000 level or above excluding 5100, 5V99)	15
Total	36 s.h.

DOCTOR OF PHILOSOPHY

A minimum of seventy-eight semester hours is required for the Ph.D.

Required Courses	sem. hrs.
BMS 5100 Biomedical Seminar	6
Required every semester. Content is to change from term to term.	
Only six semester hours are to count toward the Ph.D. degree.	
BMS 6V99 Dissertation	12
Electives (5000-level or above, excluding 5100, 5V95, 6V99)	18
Electives (4000-level or above, excluding 5100, or 6V99)	12
Total	48 s.h.

The final 30 hours required for the Ph.D. will consist of dissertation (6V99) or other coursework.

HANKAMER SCHOOL OF
BUSINESS

Associate Dean for Graduate Programs: Gary R. Carini

MASTER OF BUSINESS ADMINISTRATION

The Master of Business Administration degree program is a broad-based curriculum that integrates across functional areas and provides multiple opportunities for students to apply classroom material in real-world situations. The program consists of fifteen months (fifty-three hours) of course work that includes thirty-five core hours and eighteen elective hours with a required international component. Each of the program's three core semesters includes six courses presented in modular style. The first core semester focuses on Defining issues, the second on Discovery issues, and the third on Delivery issues. Taught by nine MBA core faculty members, the core curriculum also includes the study of a "Focus Firm" in the second semester in which students approach real problems and issues in an organization or corporation. Summer courses encompass three options: a full-time internship; an international exchange; or one elective course (3 hours) on campus. Entrance to the MBA program begins in fall or spring. Two core semesters include a one-hour Career Development course. This course assists the MBA student in developing skills that offer support in obtaining an internship and, upon program completion, a full time position. Non-business undergraduates are encouraged to apply. A one-semester seminar (see admission requirement #4 below), which satisfies all graduate business prerequisites, is offered in summer and fall prior to a non-business student's entrance into the fifty-three hour MBA program.

Admission

1. See [general requirements](#).
2. Applicants for admission to graduate study in business make application to the Graduate School. Applications are forwarded to the Hankamer School of Business where they are evaluated by the Associate Dean for Graduate Programs. Applications are returned to the Dean of the Graduate School for final evaluation.
3. Application deadlines are July 1 for the fall semester, November 1 for the spring semester, and April 1 for the summer semester.
4. Applicants must have a bachelor's degree from an accredited university or college. For admission to the fifty-three hour program, the applicant's undergraduate degree

must include business courses, including the study of principles of accounting, micro economics and macro economics, finance, and statistics. Applicants lacking these core courses or having grade deficiencies in individual core courses may be admitted to a one-semester prerequisite program called the Integrated Management Seminar. This Integrated Management Seminar (BUS 5601 and BUS 5602) is available to any student admitted to a graduate program in business, but is especially designed for those whose undergraduate work is in fields other than business. Students with undergraduate work in business may be strongly encouraged to enroll in the Integrated Management Seminar, if (1) several years have elapsed since their graduation or (2) they have deficient grades (C or below) in undergraduate core business courses. Students enrolling in the Integrated Management Seminar must complete the semester having obtained an overall "B" average resulting in a credit grade. This credit allows a student to continue in their program of acceptance. Topic areas in the twelve-hour seminar include Micro/Macro Economics, Math/Statistics, Accounting, Finance and Business Law.

5. Students without a minimum of two years of full-time work experience are required to complete a three-hour internship. Students may work with the Director of Career Management for assistance in securing an internship position.
6. Students enrolled in the integrated BBA/MAcc and BBA/MTax degree programs must meet all requirements for admission to graduate school except the requirement for the bachelor's degree. Students should apply to graduate school during their senior year. (See Undergraduate Catalog for Accounting Major.)
7. Applicants must have a record of undergraduate study and experience that is predictive of success in graduate study.
8. Students must (1) meet the general admission requirements for graduate study as set forth in this catalog and (2) demonstrate in their undergraduate and any postgraduate courses a scholarly and professional interest above average. Managerial experience, leadership, and other practical experiences are among major criteria used in evaluating applicants for this program. In addition, all applicants must take the GMAT. A consideration of GPA, GMAT, and relevant experience that indicates a high promise of success in graduate business studies determines admission to the program. Admission requires the concurrence of the Associate Dean for Graduate Programs in the Hankamer School of Business and the Dean of the Graduate School.
9. The primary criterion for evaluating students applying to the Executive Master of Business Administration (Executive MBA) is successful managerial or professional work experience. The GMAT examination is not required. In special circumstances, however, the GMAT examination may be required at the discretion of the admission committee. Applicants should contact the Director of the Executive MBA program for requirements specific to their situation.
10. International students who are required to take the Test of English as a Foreign Language (TOEFL) must attain a minimum score of 600 on the paper-based test, or an equivalent score of 250 on the computer-based test.

Requirements

The general Master of Business Administration degree is awarded after the successful completion of the requirements listed below. Each student admitted to the MBA program must have completed the Integrated Management Seminar (BUS 5601 and BUS 5602) successfully, or its undergraduate course work equivalent in the study of accounting, micro and macro economics, finance and statistics with a grade of "B" or better in each course.

A thesis option to the MBA degree is available. Students interested in this option should see the Associate Dean for Graduate Programs in the Business School.

All course work must be in graduate level courses.

Resident study of at least nine months at Baylor University is required. Not more than six hours of work may be transferred from another college or university. No credit will be given for work done by extension or correspondence, nor for courses counted already toward a bachelor's or another master's degree.

All MBA candidates must earn an average grade of "B" (3.0) or higher in the thirty-two hours of core courses. If course substitutions are made for any of these core courses, the substituted course grade is included in the average. Students not having an overall average of 3.0 or higher in the core courses are required to repeat one or more of the courses in which a grade below "B" was earned in order to increase their average to 3.0. When a core course is repeated, the new grade substitutes for the old grade in the core calculated GPA. In some cases, more advanced work may be prescribed in place of the course on which a grade below "B" was earned. Both the original grade and the new grade for a repeated course will be included in the overall GPA for graduation purposes.

Early in the semester in which the degree is to be awarded, candidates must complete and Intent to Graduate form found on the graduate school website in application for the degree.

MASTER OF BUSINESS ADMINISTRATION
General Business

I.	Required Core Courses	35 sem. hrs.
	BUS 5390 Management Communication	
	BUS 5395 Focus Firm	
	MGT5385 Strategic Management	
	MKT5310 Marketing Administration	
	MGT 5310 Management of Organizational Behavior	
	BUS 5111 Professional Career Development #1	
	BUS 5112 Professional Career Development #2	
	Required Integrated Core Courses	
	MIS 5151 Technical Foundations of Information Systems	
	MIS 5152 Aligning IT with the Business Enterprise	
	MIS 5153 Managing the Info Technology Resource	
	ACC 5121 Accounting Planning	
	ACC 5122 Accounting Implementation	
	ACC 5123 Accounting in a Changing Environment	
	FIN 5161 Corporate Finance – Planning	
	FIN 5162 Corporate Finance – Implementation	
	FIN 5163 Financial Control	
	QBA 5131 Quantitative Methods for Decision Making: Part I	
	QBA 5132 Quantitative Methods for Decision Making: Part II	
	QBA 5133 Quantitative Methods for Decision Making: Part III	
	ECO 5115 Demand Analysis	
	ECO 5116 Production and Cost Analysis	
	ECO 5117 Market Structure Analysis and Estimation	
	MGT 5131 Operations Strategy: Concepts and Fundamentals	
	MGT 5132 Operations Strategy: Structuring the Operating System	
	MGT 5133 Operations Strategy: Managing Operational Focus	
II.	Other Requirements	18 sem. hrs.
	• One international business elective course or 3-hour study abroad required	
	• 3-hour internship required for students without 2 years of full-time work experience	
	• Total of 18 hours of electives or in combination of above	
	Total	53 sem. hrs.

Minor in Business Administration

For a graduate minor in business, students must complete any four graduate level business courses (including the required prerequisites). These courses must be completed in no less than three separate disciplines.

EXECUTIVE MASTER OF BUSINESS ADMINISTRATION

The Master of Business Administration degree (Executive Program – EMBA) is designed for full-time working students who hold management-level positions with their respective firms. Admission requires a personal interview before the graduate business admissions committee. The EMBA is a “lock-step” (sequentially ordered) set of course offerings. Students enter only in the fall and progress through the program together, with all students taking the same courses. Two EMBA programs are offered, a weekend program in Dallas and an evening program in Austin. Both programs require two years for completion and consist of the following:

BUS 5201	In-Residence I: Managing in the 21st Century
MGT 5211	Leading with Integrity
QBA 5330	Evidence Based Decision Making
ECO 5315	Microeconomic Theory and Business Decisions
MGT 5184	Negotiations: Power and Influence
MIS 5152	Aligning IT with the Business Enterprise
BUS 5302	In Residence II: International Business and the Public Policy Process
BL 5171	Legal Aspects of Business
ACC 5305	Financial Accounting
FIN 5260	Financial Decision Making
BUS 5V98	Special Topics
FIN 5263	Managing for Value Creation
BL 5105	Employment Law
MGT 5136	Human Resources Management
FIN 5220	Private Equity Investing
ACC 5320	Managerial Accounting
MGT 5320	Manufacturing and Service Operations
MKT 5310	Seminar in Marketing Strategy
ECO 5110	Key Global Economic and Strategic Issues
MGT 5785	Global Strategic Management
MGT 5284	Negotiations: Maximizing Multi-Party Outcomes
MGT 5191	Leading Organizational Change for High Performance

Total

48 sem. hrs.

No work may be transferred from another college or university. All Executive MBA courses are considered required courses. No grade below a “C” is acceptable in a required course. If a grade of “D” or “F” is made in a required course, the student must repeat the course and earn a grade of “C” or higher. When a course is repeated, both the original grade and the new grade for a repeated course will be included in the overall GPA for graduation purposes.

All Executive MBA students must maintain a minimum overall gradepoint average of 3.0 during each semester. Any Executive MBA student whose overall gradepoint average falls below a 3.0 during any semester, will be placed on probation for the next nine semester hours of course work (see [Probation in the General Information](#) section).

To graduate, all Executive MBA students must have a minimum overall gradepoint average of 3.0.

Early in the semester in which the degree is to be awarded, candidates must file an Intent to Graduate form with the Graduate School in compliance with graduation requirements.

MASTER OF BUSINESS ADMINISTRATION

Healthcare Administration Specialization

Advisor: Scott H. Garner

Associate Dean for Graduate Programs: Gary R. Carini

The Master of Business Administration, Healthcare Administration Specialization is designed for students seeking an MBA with a Healthcare Administration Specialization. Healthcare administrators are integral to the management of medical organizations, ranging from hospitals, nursing homes and hospice facilities, to medical insurance companies, provider networks and government policy organizations. However, concentrated knowledge in a narrow specialty is no longer considered adequate to be an effective manager. Today’s healthcare administrators are expected to examine business from multiple perspectives, drawn from a cross-section of multidisciplinary expertise. Practiced healthcare administrators with a broad range of business skills are in high demand and the healthcare industry’s best asset. The Healthcare Administration Specialization is designed to combine the quantitative strengths of the MBA with a specialized curriculum in the healthcare industry.

During the introductory Health Administration course, Baylor MBA students get their first exposure to medical administration as they meet working health executives. During a seven month residency, students tailor their studies to personal career goals in progressive, leading health organizations located throughout Texas, including Austin, Houston, Dallas, Waco, and San Antonio. Residency opportunities also exist outside of Texas, including one of the nation’s leading health consulting firms in Washington D.C. Students work closely with a preceptor in the organization and a Baylor faculty member to maximize their learning experience. Ideally, they will be able to incorporate residency efforts to produce a major paper, contributing to the body of knowledge for health systems.

As students prepare for a career in health administration, they will be introduced to the professional organizations providing lifelong educational programs for medical executives and given the opportunity to establish early mentoring relationships. During the two-year program all students will be given the opportunity to attend a major state or national health education event.

Admission to the MBA Healthcare Administration Specialization is contingent on admission to the Master of Business Administration degree program. (See [Master of Business Administration admission requirements](#).) The degree requirements are listed below.

3- hour Required Courses taken within semesters below

MGT	5385	Strategic Management
MKT	5310	Marketing Administration
MGT	5310	Management of Organizational Behavior

Core I Fall		18 sem. hrs.
BUS	5390	Management Fundamentals3
MIS	5151	Technical Foundations of Information Systems1
ACC	5121	Accounting Planning1
FIN	5161	Corporate Finance-Planning1
QBA	5131	Quantitative Methods for Decision Making: Part I1
ECO	5115	Demand Analysis1
MGT	5131	Operations Strategy: Concepts and Fundamentals1

HPA	5310	Healthcare Administration	3
3-hour Required Course			
3-hour Required Course			

Core II Spring **17 sem. hrs.**

MIS	5152	Aligning IT with the Business Enterprise	1
ACC	5122	Accounting Implementation	1
FIN	5162	Corporate Finance-Implementing	1
QBA	5132	Quantitative Methods for Decision Making II	1
ECO	5116	Production and Cost Analysis	1
MGT	5132	Operations Strategy: Structuring the Operating System	1
HPA	5120	Principles & Methods of Healthcare Delivery	
		Systems Research	1
HPA	5126	Public Health Issues for Healthcare Executives	1
HPA	5380	Healthcare Finance	3
HPA	5350	Health Economics	3
3-hour Required Course			

Residency Summer and Fall **9 sem. hrs.**

HPA	5V90	Healthcare Administrative Internship-Summer	3
HPA	5V90	Healthcare Administrative Internship-Fall	6

Core III Spring **16 sem. hrs.**

MIS	5153	Managing the Info Technology Resource	1
ACC	5123	Accounting in a Changing Environment	1
FIN	5163	Financial Control	1
QBA	5133	Quantitative Methods for Decision Making: Part III	1
ECO	5117	Market Structure Analysis and Estimation	1
MGT	5133	Operations Strategy: Managing Operational Focus	1
HPA	5121	Current Issues in Healthcare Administration	1
HPA	5395	US Healthcare Direction	3
HPA	5330	Healthcare Law and Ethics	3
HPA	5367	Managerial Epidemiology	3

Total **60 sem. hrs.**

Residency Information

Purpose

The administrative residency is an integral part of the Healthcare Administration Specialization Program. Residency is designed to supplement course work and give each student an opportunity to receive guidance from a well qualified, practicing healthcare executive; to apply and test administrative theory in practical work situations; and to develop the ability to assume major responsibility in a healthcare organization.

Residency Eligibility and Options

An administrative residency is required for all students admitted to the Healthcare Administration Specialization program. Students will be matched for residencies during their second semester (Spring) through an interview process with prospective residency preceptors. Residencies will be served during the following Summer and Fall sessions. The institution and nature of the residency are varied in keeping with the evaluated needs of each student. The residency is a nine-hour credit field experience supervised by the Preceptor Coordinator.

Residency Requirements

I. Residency Plan - Description of competencies, objectives, activities, projects, and readings.

II. Monthly Activity Reports - Progress report of residency plan accomplishments.

III. Competitive Paper - Professional quality essay with a focus on health management topics that will be submitted to the American College of Healthcare Executives competition.

IV. Major Project - A major management/problem solving project utilizing skills and competencies gained from the academic portion of the HCA program.

JOINT MASTER OF BUSINESS ADMINISTRATION/ MASTER OF SCIENCE IN COMPUTER SCIENCE

Associate Dean for Graduate Business Programs: Gary R. Carini

Graduate Director in Computer Science: David Sturgill

The MSCS/MBA joint-degree program creates an opportunity for graduate students to acquire the breadth of understanding and added flexibility needed to operate effectively at the interface between the commercial and technical units of modern industry and society. This dual program satisfies the standard requirements (47 hours) of the individual core courses from both degree programs. In addition, 21 elective course hours are required in Computer Science to bring the joint program total hours to 68. The program is designed to permit a full-time student to complete all requirements for both programs in two years. Upon completion, both degrees are awarded simultaneously. Students are encouraged to contact appropriate advisors in each program for further details.

JOINT MASTER OF BUSINESS ADMINISTRATION/ MASTER OF ENGINEERING

Associate Dean for Graduate Business Programs: Gary R. Carini

Graduate Director in Engineering: Michael W. Thompson

Students interested in a career requiring complementary skills in both business and engineering may complete the Master of Engineering and MBA degrees concurrently. By proper selection of courses, students can save up to 21 hours in the joint degree compared to the individual requirements of the two separate degrees. Students should consult with advisors in both engineering and business to determine the best sequence of courses.

Master of Engineering students from industry may, with approval of their advisor, select a project that is relevant to their work responsibilities.

Admission

Students must apply and be accepted separately into both programs. Therefore, both the GMAT and GRE exams are required.

Requirements

Candidates for the joint Master of Engineering/MBA degree must complete all degree requirements for the MBA and the Master of Engineering. By proper selection of electives it may be possible to reduce the requirements of the joint degree by up to 21 hours compared to the normal requirements of the two degrees completed separately. This efficiency is achieved by proper selection of business electives for the 15 business course credits allowed for the Master of Engineering program and by a six-credit reduction of the MBA elective requirements reflecting recognition of the additional graduate work in completing the Master of Engineering. Since both degrees are awarded simultaneously, all requirements in both programs must be completed in order to receive either degree. Students are encouraged to contact appropriate advisors in each program for further details.

JOINT MASTER OF BUSINESS ADMINISTRATION/ MASTER OF SCIENCE IN INFORMATION SYSTEMS

Students interested in expanding their breadth of business knowledge while concurrently obtaining an in-depth knowledge of information systems may be interested in pursuing the MBA and MSIS degrees concurrently. Within the MSIS degree program, students have the option of the development concentration (for those with little or no prior background in information systems or computer science) or the information security concentration (for those with a solid background in information systems or computer science).

Admission

Students must apply and be accepted separately into both programs.

Requirements

Students receive twelve hours of credit toward their elective requirement for the MBA upon the successful completion of the required MSIS courses and nine hours of credit toward their MSIS upon the successful completion of the required MBA courses. Thus, MBA/MSIS students complete twenty-seven hours of information systems courses and forty-five hours of business courses. Since both degrees are awarded simultaneously, all requirements in both programs must be completed in order to receive either degree.

I. Required Core Courses

35 sem. hrs.

BUS 5390	Management Communication
BUS 5395	Focus Firm
MGT5385	Strategic Management
MKT5310	Marketing Administration
MGT 5310	Management of Organizational Behavior
BUS 5111	Professional Career Development #1
BUS 5112	Professional Career Development #2

Required Integrated Core Courses

MIS 5151	Technical Foundations of Information Systems
MIS 5152	Aligning IT with the Business Enterprise
MIS 5153	Managing the Info Technology Resource
ACC 5121	Accounting Planning
ACC 5122	Accounting Implementation
ACC 5123	Accounting in a Changing Environment
FIN 5161	Corporate Finance – Planning
FIN 5162	Corporate Finance – Implementation
FIN 5163	Financial Control
QBA 5131	Quantitative Methods for Decision Making: Part I
QBA 5132	Quantitative Methods for Decision Making: Part II
QBA 5133	Quantitative Methods for Decision Making: Part III
ECO 5115	Demand Analysis
ECO 5116	Production and Cost Analysis
ECO 5117	Market Structure Analysis and Estimation
MGT 5131	Operations Strategy: Concepts and Fundamentals
MGT 5132	Operations Strategy: Structuring the Operating System
MGT 5133	Operations Strategy: Managing Operational Focus

II. Other MBA Requirements

12 sem. hrs.

Option 1:

- One International Business Elective Course
- Three 5000 Level Business Elective Courses

Option 2:
International Study Experience or Internship – 3 hours
Three 5000 Level Business Elective Courses

III. Required MSIS Courses (choose one of the following concentrations)

24 sem. hrs.

Development Concentration:

Required Development Core Courses

- MIS 5301 Seminar in Object Oriented Business Programming
- MIS 5310 Business Telecommunications and Networking
- MIS 5335 Information Systems Analysis and Design
- MIS 5340 Database Management Systems
- MIS or ISEC Elective

Select one of the following:

- MIS or ISEC Elective (Chosen in consultation with program advisor)
- ISEC 5320 Cyber Security Technology Factors

Select one of the following:

- MIS 5316 Development of Object-Oriented Business Systems
- MIS 5317 Client-Side E-Commerce Development with Java

Select one of the following:

- MIS 5V95 Internship in Information Systems
- MIS 5V99 Thesis (final oral exam required for those writing a thesis)
- MIS or ISEC Elective (if internship is waived for those with significant prior full-time work experience)

Security Concentration:

Required Security Core Courses²

- ISEC 5310 Human Factors Ethics, Integrity, Practices, Policies, and Procedures
- ISEC 5320 Cyber Security Technology Factors
- ISEC 5330 Information Assurance Planning and Management
- ISEC 5340 Cyber Warfare, Threats, Vulnerabilities, and Countermeasures
- RMI 5335 Seminar in Integrated Business Risk Management
- BL 5310 Cyberlaw
- ACC 5317 Information Systems Auditing

Select one of the following:

- MIS 5V95 Internship in Information Systems
- MIS 5V99 Thesis (final oral exam required for those writing a thesis)
- MIS or ISEC Elective (if internship is waived for those with significant prior full-time work experience)

Total

68 sem. hrs.

² MIS 5310 - Business Telecommunication and Networking - or its equivalent must have been taken by students in the ISEC concentration, or they must take it as an elective their first semester in the program.

JOINT JURIS DOCTOR/MASTER OF BUSINESS ADMINISTRATION

Associate Dean of the Law School: Leah W. Jackson

Associate Dean for Graduate Business Programs: Gary R. Carini

Students interested in a career requiring complementary skills in both law and business may complete the JD and MBA degrees concurrently. Law courses substitute for electives in the MBA curriculum described in this catalog, and business courses substitute for twelve quarter hours (one quarter) in the JD curriculum. Completing the combined program effectively “saves” one semester and one quarter of study. Students should consult with advisors in both the Law School and Business School to determine the best sequence of courses.

Admission

Students must apply and be accepted separately into both programs. Therefore, both the GMAT and LSAT exams are required.

Requirements

Students receive twelve hours credit toward their JD upon the successful completion of the MBA required courses and credit toward their elective requirement for the MBA upon successful completion of Law School course work. Thus, JD/MBA students complete 114 quarter hours of law and thirty-two semester hours of graduate business. Since both degrees are awarded simultaneously, all requirements in both programs must be completed in order to receive either degree.

The following lists the required MBA courses for the joint degree.

Required Core Courses

32 sem. hrs.

BUS 5390	Management Communication
MGT 5385	Strategic Management
BUS 5395	Focus Firm
MGT 5310	Management of Organizational Behavior
MKT 5310	Marketing Administration
MIS 5151	Technical Foundations of Information Systems
MIS 5152	Aligning IT with the Business Enterprise
MIS 5153	Managing the Info Technology Resource
ACC 5121	Accounting Planning
ACC 5122	Accounting Implementation
ACC 5123	Accounting in a Changing Environment
FIN 5161	Corporate Finance – Planning
FIN 5162	Corporate Finance – Implementation
FIN 5163	Financial Control
QBA 5131	Quantitative Methods for Decision Making: Part I
QBA 5132	Quantitative Methods for Decision Making: Part II
QBA 5133	Quantitative Methods for Decision Making: Part III
ECO 5115	Demand Analysis
ECO 5116	Production and Cost Analysis
ECO 5117	Market Structure Analysis and Estimation
MGT 5131	Operations Strategy: Concepts and Fundamentals
MGT 5132	Operations Strategy: Structuring the Operating System
MGT 5133	Operations Strategy: Managing Operational Focus

Total

32 sem. hrs.

MASTER OF ACCOUNTANCY

Director of Graduate Accounting Programs and Advisor: Jane N. Baldwin
Associate Dean for Graduate Business Programs: Gary R. Carini

The Master of Accountancy degree has been designed to assist students in meeting the requirements of the Texas Public Accountancy Act of 1991 and similar professional certification requirements in other states. The Act requires that a candidate for the Uniform Certified Public Accountant Examination after September 1, 1997, show completion of a baccalaureate or graduate degree program with completion of courses recognized by the Texas State Board of Accountancy reflecting no fewer than 150 semester hours.

The Master of Accountancy program seeks to provide students with the technical background and complementary professional skills necessary for careers in public accounting, industry, and government. The program consists of eighteen semester hours of graduate accounting courses, three semester hours of corporate finance, and twelve semester hours of graduate business electives, for a total of thirty-three semester hours. Other than these general requirements there are no specified courses within the degree program, allowing each student to tailor a program to meet his or her specific career objectives. The graduate accounting courses that are offered will allow a student to design a specialization in accounting information systems, auditing, financial accounting, managerial accounting, or taxation. Additionally, the graduate business electives can be used to obtain a broad-based business education or a secondary area of specialization outside of accounting.

Admission

A baccalaureate degree with a major in accounting, or its equivalent, is required. The application for admission is processed in the same manner as other graduate business programs (all applicants must take the GMAT).

Requirements

Curriculum for the Master of Accountancy Degree	sem. hrs.
Graduate Accounting Courses*	18
Seminar in Corporate Finance (FIN 5360)	3
Graduate Business Electives*	12
Total	33

**All course selections must have the approval of the Director of Graduate Accounting Programs.*

All MAcc candidates must earn an average grade of “B” (3.0) or higher in eighteen hours of graduate accounting courses. Students not having an overall average of 3.0 or higher in these courses are required to repeat one or more of the courses in which a grade below “B” was earned in order to increase their average to 3.0. When an accounting course is repeated, the new grade substitutes for the old grade in the calculated accounting GPA. In some cases, more advanced work may be prescribed in place of the course on which a grade below “B” was earned. Both the original grade and the new grade for a repeated course will be included in the overall GPA for graduation purposes.

JOINT BACHELOR OF BUSINESS ADMINISTRATION/
MASTER OF ACCOUNTANCY

Director of Graduate Accounting Programs and Advisor: Jane N. Baldwin
Associate Dean for Graduate Business Programs: Gary R. Carini

Students pursuing a Bachelor of Business Administration degree with a major in accounting may complete the BBA and MAcc degrees concurrently. Under the joint program, up to twelve semester hours of undergraduate business electives are waived for up to twelve semester hours of graduate business electives. Completing the joint degree

program effectively “saves” one semester of course work. Since both degrees are awarded simultaneously, all requirements in both programs must be completed in order to receive either degree.

Admission

Students must apply and be accepted into the Master of Accountancy program during their senior year. Students should consult with the Director of Graduate Accounting Programs to determine the appropriate timing of actual enrollment in the Master of Accountancy program.

Requirements

Curriculum for the BBA/MAcc Joint Degree	sem. hrs.
Undergraduate Arts and Sciences	59-64
Undergraduate Business Core	36
Undergraduate Accounting Major	24
Undergraduate Elective	3-5
Chapel (2 semesters)	
Total Undergraduate	124-129

Note: A student choosing the minimal option for nine semester hours in a foreign language may need to take an additional elective to fulfill the minimum of 124 semester hours required for the B.B.A. degree. See a business school advisor if necessary.

Graduate Accounting Courses*	18
Seminar in Corporate Finance (FIN 5360)	3
Graduate Business Electives*	<u>12</u>
Total Graduate	<u>33</u>

Total Combined Program 157-162

**All course selections must have the approval of the Director of Graduate Accounting Programs.*

All BBA/MAcc candidates must earn an average grade of “B” (3.0) or higher in eighteen hours of graduate accounting courses. Students not having an overall average of 3.0 or higher in these courses are required to repeat one or more of the courses in which a grade below “B” was earned in order to increase their average to 3.0. When an accounting course is repeated, the new grade substitutes for the old grade in the calculated accounting GPA. In some cases, more advanced work may be prescribed in place of the course on which a grade below “B” was earned. Both the original grade and the new grade for a repeated course will be included in the overall GPA for graduation purposes.

MASTER OF TAXATION

Director of Graduate Accounting Programs and Advisor: Jane N. Baldwin

Associate Dean for Graduate Business Programs: Gary R. Carini

The Master of Taxation program seeks to provide students the technical background in taxation and related fields required for employment with public accounting firms, government agencies, or industry and commercial businesses. The program emphasizes an understanding of all major areas of tax authority, including the Internal Revenue Code, Treasury Regulations, administrative (IRS) interpretations, and judicial sources of tax law. This program should enable students to enter the accounting and tax profession prepared to analyze and to solve a variety of complex tax and business problems.

Admission

A baccalaureate degree with a major in accounting, or its equivalent, is required. The application for admission is processed in the same manner as other graduate business programs (all applicants must take the GMAT).

Requirements

Curriculum for the Master of Taxation Degree		sem. hrs.
ACC 5361	Corporate Taxation	3
ACC 5362	Partnership and S Corporation Taxation	3
ACC 5363	State, Local, Estate, and Gift Taxation	3
ACC 5364	State, Local and International Taxation	3
ACC 5365	Advanced Individual Taxation	3
ACC 5370	Advanced Tax Topics and Research	3
FIN 5360	Seminar in Corporate Finance	3
Graduate Business Electives*		<u>12</u>
Total		33

**All business electives must have the approval of the Director of Graduate Accounting Programs*

All MTax candidates must earn an average grade of “B” (3.0) or higher in eighteen hours of graduate accounting courses. Students not having an overall average of 3.0 or higher in these courses are required to repeat one or more of the courses in which a grade below “B” was earned in order to increase their average to 3.0. When an accounting course is repeated, the new grade substitutes for the old grade in the calculated accounting GPA. In some cases, more advanced work may be prescribed in place of the course on which a grade below “B” was earned. Both the original grade and the new grade for a repeated course will be included in the overall GPA for graduation purposes.

JOINT BACHELOR OF BUSINESS ADMINISTRATION/
MASTER OF TAXATION

Director of Graduate Accounting Programs and Advisor: Jane N. Baldwin
Associate Dean for Graduate Business Programs: Gary R. Carini

Students pursuing a Bachelor of Business Administration degree with a major in accounting may complete the BBA and MTax degrees concurrently. Under the joint program, up to twelve semester hours of undergraduate business electives are waived for up to twelve semester hours of graduate business electives. Completing the joint degree program effectively “saves” one semester of course work. The BBA and MTax degrees will be awarded simultaneously upon completion of the MTax requirements.

Admission

Students must apply and be accepted into the Master of Taxation program during their senior year. Students should consult with the Director of Graduate Accounting Programs to determine the appropriate timing of actual enrollment in the Master of Taxation program.

Requirements

Curriculum for the BBA/MTax Joint Degree		sem. hrs.
Undergraduate Arts and Sciences		59-64
Undergraduate Business Core		36
Undergraduate Accounting Major		24
Undergraduate Elective		3-5
Chapel (2 semesters)		
Total Undergraduate		<u>124-129</u>

Note: A student choosing the minimal option for nine semester hours in a foreign language may need to take an additional elective to fulfill the minimum of 124 semester hours required for the B.B.A. degree. See a business school advisor if necessary.

Graduate Tax Courses*	15
Graduate Accounting Elective	3
Graduate Business Electives*	<u>15</u>
Total Graduate	<u>33</u>

Total Combined Program **157-162**

**All course selections must have the approval of the Director of Graduate Accounting Programs.*

All MTax candidates must earn an average grade of “B” (3.0) or higher in eighteen hours of graduate accounting courses. Students not having an overall average of 3.0 or higher in these courses are required to repeat one or more of the courses in which a grade below “B” was earned in order to increase their average to 3.0. When an accounting course is repeated, the new grade substitutes for the old grade in the calculated accounting GPA. In some cases, more advanced work may be prescribed in place of the course on which a grade below “B” was earned. Both the original grade and the new grade for a repeated course will be included in the overall GPA for graduation purposes.

JOINT JURIS DOCTOR/MASTER OF TAXATION

Associate Dean of the Law School: Leah W. Jackson

Director of Graduate Accounting Programs: Jane N. Baldwin

Associate Dean for Graduate Business Programs: Gary R. Carini

Students interested in a tax career requiring complementary skills in both law and tax accounting may complete the JD and MTax degrees concurrently. Law courses substitute for twelve semester hours of course work (one semester) in the MTax curriculum and accounting courses substitute for twelve quarter hours of course work (one quarter) in the JD curriculum. Completing the combined program effectively “saves” one semester and one quarter of study. Students must consult with advisors in both the Law School and Business School to determine course substitutions and the best sequence of courses.

Admission

Students must apply and be accepted separately into both programs. Therefore, both the GMAT and LSAT exams are required.

Requirements

Students receive twelve hours of credit toward their JD upon the successful completion of the required MTax courses and twelve hours of credit toward their elective requirement for the MTax upon successful completion of Law School course work. Thus, JD/MTax students complete 114 quarter hours of law and twenty-one semester hours of graduate tax. Since both degrees are awarded simultaneously, all requirements in both schools must be completed in order to receive either degree.

While completing the JD curriculum, students concurrently enroll in the following tax classes:

ACC 5361	Corporate Taxation	
ACC 5362	Partnership and S Corporation Taxation	
ACC 5364	State, Local and International Taxation	
ACC 5365	Advance Individual Taxation	
ACC 5370	Advanced Tax Topics and Research	
Business Electives*		6 sem. hrs.

** Must be approved by the Director of Graduate Accounting Programs*

DEPARTMENT OF ECONOMICS

Chairperson: H. Stephen Gardner
Graduate Program Director: Tom Kelly

Description of Degree Programs

The Department of Economics offers three master's degrees: the Master of Science in Economics, Master of Science, and Master of Arts. These degree programs are designed primarily for students who seek additional exposure to general economics or international economics before pursuing doctoral training in economics or related disciplines and students who seek training in general economics or international economics before pursuing professional careers in the public or private sector in the U.S. or abroad. Applicants do not need an undergraduate degree in economics to be admitted, although such training is desirable.

Admission Guidelines

Applicants for each degree program must hold a bachelor's degree from an accredited college or university. Applicants are admitted on the basis of undergraduate record, GRE or GMAT score, and letters of recommendation. In addition, before admission, applicants must have taken the following undergraduate economics courses, or their equivalents: ECO 3306 and 3307 (i.e., intermediate microeconomics and intermediate macroeconomics), or fifteen hours of economics. Applicants are also strongly advised to complete undergraduate courses in calculus and statistics before the course of study begins.

MASTER OF SCIENCE IN ECONOMICS

Degree Requirements

Students may earn the Master of Science in Economics by fulfilling the requirements of one of the two options detailed below:

1. **Thesis option:** Complete 24 hours of course work (including ECO 5001, 5002, 5310, and 5315) plus a six-hour thesis (30 semester hours total). Eighteen hours of course work must be in economics (prefixed by ECO), and 15 of these 18 hours must be at the 5000-level. Additionally, 18 hours of course work, whether within or outside of economics, must be at the 5000-level. Only those 4000-level courses approved for graduate credit (i.e., courses that appear in the Graduate Catalog) will count toward the degree's requirements.
2. **Non-thesis option:** Complete 36 hours of course work (including ECO 5001, 5002, 5310, 5315, and 5343) (36 semester hours total). Twenty-four hours of course work must be in economics (prefixed by ECO), and 15 of these 24 hours must be at the 5000-level. Additionally, 24 hours of course work, whether within or outside of economics, must be at the 5000-level. Only those 4000-level courses approved for graduate credit (i.e., courses that appear in the Graduate Catalog) will count toward the degree's requirements.

MASTER OF SCIENCE

Degree Requirements

Students may earn the Master of Science with a major in international economics by completing 30 hours of course work plus a six-hour special studies requirement described below (36 semester hours total):

Primary Core Courses	9 sem. hrs.
ECO 5330 Problem Areas in International Economics	

ECO 5333	Foreign Exchange Markets and International Monetary Institutions
ECO 5338	Seminar in World Economic Systems

Secondary Core Courses**12 sem. hrs.**

ECO 5001	Research Seminar
ECO 5002	Research Seminar
ECO 5310	Macroeconomic Analysis in the Global Economy
ECO 5315	Microeconomic Theory and Business Decisions
ECO 5343	History of Economic Thought
ECO 5347	Econometrics

Electives from the following**9 sem. hrs.**

ECO 5321	Energy Economics
BL 5305	Legal Aspects of Management Decisions
FIN 5331	Seminar in International Finance
FIN 5360	Seminar in Corporate Finance
FIN 5368	Seminar in Financial Markets
FIN 5370	Commercial Bank Management
ENV 5310	Agricultural Ecology
MIS 5315	Net Systems Development
PSC 5324	Seminar in Comparative Politics
PSC 5325	Seminar in International Relations
MKT 5315	Seminar in Comparative Marketing
MGT 5325	International Management

Special Studies**6 sem. hrs.**

After advisement from the Graduate Program Director, a student will choose one of the following options:

- (a) BUS 5V95 Internship in International Business (requires a written report on at least three months of a supervised internship in the field of international economics)
- (b) ECO 5V99 Master's Thesis

MASTER OF ARTS**Degree Requirements**

Students may earn the Master of Arts with a major in international economics by satisfying the requirements for the Master of Science and by demonstrating intermediate-level proficiency in a language other than English (36 semester hours total). For information on foreign language proficiency, see the relevant section of the Graduate Catalog. Candidates for the Master of Arts can choose one of the following four special studies options:

Special Studies**6 sem. hrs.**

After advisement from the Graduate Program Director, a student will choose one of the following four options:

- (a) BUS 5V95 Internship in International Business (requires a written report on at least three months of a supervised internship in the field of international economics)
- (b) ECO 5V98 Special Studies in Economics (3 semester hours) and one additional 3-hour elective course from the list above
- (c) ECO 5V99 Master's Thesis
- (d) Six semester hours of graduate study at an international university approved by the Graduate Program Director and the Graduate School.

MINOR IN ECONOMICS

The graduate program in economics is also offered as a minor in various master’s and doctoral programs. If a minor in economics is selected by a student enrolled in another graduate program, it must be approved by the Graduate Program Director in the Department of Economics. To qualify for a minor in economics, the student must complete at least three 5000-level economic courses.

DEPARTMENT OF INFORMATION SYSTEMS

Advisor: Jonathan K. Trower, Advisor
Associate Dean for Graduate Programs, Advisor: Gary R. Carini

MASTER OF SCIENCE IN INFORMATION SYSTEMS

Objectives

The Master of Science in Information Systems (MSIS) is designed to provide graduates with the skills to function effectively as professionals and with a solid background for continued professional growth in the industrial market place. It is also designed for the student who wants to develop depth and expertise in the information systems field.

The MSIS program consists of two concentrations: development and security. The development concentration is ideal for candidates with backgrounds or professions in career fields outside information systems who desire to cross-train in another career field. The security concentration is ideal for candidates with a solid background in information systems or computer science who desire training in the information security field.

Admission

Applicants must have a bachelor’s degree from an accredited university or college. Applicants must present a grade point average and scores on the GRE or GMAT that are predictive of success in this program. Applicants must adhere to the general admissions requirements for graduate study at Baylor and also meet the admission requirements of the Master of Business Administration degree program.

Curriculum

The MSIS requires thirty-six hours of courses, including twenty-seven hours of courses (MIS or ISEC) in their concentration, including an internship or thesis, and nine hours of business electives. All students in the MSIS program must have successfully completed micro- and macro- economics, financial and managerial accounting, and corporate finance prior to their entrance to the MSIS program, or they must complete BUS 5601 and 5602 - Integrated Mangament Seminars I and II - within their first two semesters in the program. If required, completion of the Integrated Management Seminars will increase the required number of hours for the program to 48.

Development Concentration

Required Core Courses		15 sem. hrs.
MIS 5301	Seminar in Object Oriented Business Programming	3
MIS 5310	Business Telecommunications and Networking	3
MIS 5335	Information Systems Analysis and Design	3
MIS 5340	Database Management Systems	3
MIS or ISEC Elective		3
Select one of the following:		3 sem. hrs.
MIS 5325	Information Systems for Management	
MIS 5355	Management of Information Systems	

Select one of the following: 3 sem. hrs.

MIS or ISEC Elective (Chosen in consultation with program advisor)

ISEC 5320 Cyber Security Technology Factors

Select one of the following: 3 sem. hrs.

MIS 5316 Development of Object-Oriented Business Systems

MIS 5317 Client-Side E-Commerce Development with Java

Select one of the following: 3 sem. hrs.

MIS 5V95 Internship in Information Systems

MIS 5V99 Thesis (final oral exam required for those writing a thesis)

MIS or ISEC Elective (if internship is waived for those with significant prior full-time work experience)

Business electives 9 sem. hrs.MGT 5310 Management of Organizational Behavior
(if IMS is required) or business elective

Two additional business electives

*Security Concentration***Required Security Core Courses¹ 24 sem. hrs.**ISEC 5310 Human Factors Ethics, Integrity, Practices,
Policies, and Procedures

ISEC 5320 Cyber Security Technology Factors

ISEC 5330 Information Assurance Planning and Management

ISEC 5340 Cyber Warfare, Threats, Vulnerabilities and
Countermeasures

MIS 5325 Information Systems for Management

RMI 5335 Seminar in Integrated Business Risk Management

BL 5310 Cyberlaw

ACC 5317 Information Systems Auditing

Select one of the following: 3 sem. hrs.

MIS 5V95 Internship in Information Systems

MIS 5V99 Thesis (final oral exam required for those writing a thesis)

MIS or ISEC Elective (if internship is waived for those with significant prior full-time work experience)

Business electives 9 sem. hrs.MGT 5310 Management of Organizational Behavior
(if IMS is required) or business elective

Two additional business electives

¹ MIS 5310 - Business Telecommunication and Networking - or its equivalent must have been taken by students in the ISEC concentration, or they must take it as an elective their first semester in the program.

Ph.D. in Information Systems**Department Chair:** Timothy R. Kayworth**Program Director:** Dorothy E. Leidner**Associate Dean for Graduate Programs:** Gary R. Carini**Program Description**

The Ph.D. in Information Systems seeks to train future researchers, scholars, and teachers to analyze and understand the multi-faceted impact of information systems and technologies

on individuals, organizations, and society. The program takes a broad perspective, favoring an approach in which the impact of information systems on individuals, organizations and society is examined from multiple perspectives, including, but not limited to, organizational theories. It is imperative that students understand both the positive, and negative, consequences of information systems as well as the moral and ethical dilemmas introduced in societies coordinated by and highly dependent upon information systems. The program encourages students to study and understand the role of technology in organized religion (both good and bad) and foster a Christian understanding of how to deploy IS to improve the world in which we live. Understanding the consequences of information systems and technologies requires a solid theoretical background that spans various disciplines. The program requires that students take a certain amount of hours outside the IS department, in order to expand their theoretical horizons. Ultimately, the program aims to graduate and place highly-trained students in colleges and universities around the world.

Admission Requirements:

Applicants must have a degree from an accredited university or college. An acceptable score on the GMAT or GRE is required. Applicants must adhere to the general admissions requirements of Baylor’s Graduate School for admission to Ph.D. level graduate studies. In general, applicants should meet the common body of knowledge (CBK) requirements for business degrees. CBK is sometimes referred to as business core courses. Students not meeting the CBK requirements can satisfy this requirement by satisfactorily completing the Integrated Management Seminars (BUS 5601 and BUS 5602) and by completing MGT 5310.

Curriculum:

Similar to other well-established Ph.D. programs in Information Systems (IS) and in keeping with the typical structure of curriculum in Ph.D. programs offered at Baylor, the Ph.D. in Information Systems is a 90 hour degree program, including 36 hours of M.S. work¹ and 54 hours of Ph.D. work (including 12 dissertation hours and 6 research apprenticeship hours). Of the seven required IS classes, the first five (MIS-6310 through MIS-6350) will all be taught as regular doctoral seminars. The other two required courses (MIS-6398 and MIS-6399) will constitute the summer research apprenticeships during the summers of Year 1 (MIS-6398) and Year 2 (MIS-6399). During these apprenticeships, students will work one-on-one with a faculty mentor to produce a conference paper. In addition to taking the seven required IS doctoral courses, Ph.D. students will be required to take another 21 hours of elective courses. Of the 21 hours of elective courses, 4 courses (12 hours) will come from the non-IS doctoral level courses². Students will then take another 2 electives (6 hours) of credit offered by the Information Systems Department³. The final 3 hours of elective credit will consist of a statistical methods course.

Information Systems Required Courses:

MIS-6310	3 hours
MIS-6320	3 hours
MIS-6330	3 hours
MIS-6340	3 hours

¹ Students already holding an MS in Information Systems or a related discipline (such as computer science) will not be required to complete the MSIS degree.

² Supporting area electives should be doctoral level courses offered by other Baylor academic units. Ph.D. students wishing to take 5000 level (Master’s) courses in their support area must obtain prior approval from their doctoral advisor.

³ Subject to availability of IS electives.

Three credit hours per semester (fall and spring) during years 3 and 4.

MIS-6350	3 hours
MIS-6398	3 hours
MIS-6399	3 hours
Total	21 hours

Electives:

Support Area	12 hours
IS Electives	6 hours
Method Elective	3 hours
Total	21 hours

Dissertation Credit	12 hours
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Total	54 hours
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Degree Plan:

A formal degree plan will be developed in consultation with the advisor/committee. The proposed degree plan should be completed and submitted to the advisor/committee as soon as possible during the first semester. A maximum of six hours of graduate level course work may be transferred from another accredited university. Consistent with most small Ph.D. programs, we will rotate the Year 1 and 2 such that students beginning in Year 2 will take the Year 2 classes during their first year. This will mean that all the students from Year 1 and 2 will take the Year 2 classes together. The Year 2 students will then take the Year 1 classes during their 2nd year, along with the Year 3 students. This way, all the required classes will be offered every 2 years rather than every year.

The recommended course sequence is as follows:

Year 1:Semester 1

MIS-6310, MIS-6320, Support area elective	9 hours
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Semester 2

MIS-6330, MIS-6340, Support area elective	9 hours
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Summer

MIS-6398	3 hours
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Year 2:Semester 3

IS Elective*, Method Elective, Support area elective	9 hours
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Semester 4

MIS-6350, IS Elective*, Support area elective	9 hours
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Summer

MIS-6399	3 hours
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Year 3:

MIS-6V99 (Dissertation credit)	6 hours
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Year 4:

MIS-6V99 (Dissertation credit)	6 hours
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Total Credit	54 hours
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*Information Systems Electives:

MIS-6370	Contemporary Issues in IS
MIS-6372	Seminar in Group Communication and Decision-making
MIS-6374	Organization Theory and its Application in IS Research

Program Completion Requirement:

Students will be recognized as candidates for the doctoral degree only after having (1) passed the written comprehensive exam, (2) completed all residence and departmental requirements except the dissertation and (3) received approval by the Dean of the Graduate School of their formal application for admission to candidacy for the degree. The comprehensive exam will take place during the month of June following each student's second year of study. The comprehensive exam is written and will cover material from the five core IS required classes (MIS-6310 through MIS-6350). As is customary, after having completed the dissertation, the candidate must successfully defend the dissertation at an oral examination

CHEMISTRY AND BIOCHEMISTRY

Chair: Patrick J. Farmer

Graduate Program Director: Charles M. Garner

The department offers the Master of Science and Doctor of Philosophy degrees.

Admission

A bachelor's degree equivalent to a B.S. degree in chemistry or biochemistry at Baylor is the standard requirement for admission. In addition to the GRE General Test, the Advanced test in chemistry may be required of applicants, at the discretion of the department. For those applying with less than the standard requirement, the quality and adequacy of the work offered for admission will be evaluated by the Graduate Affairs Committee of the Department of Chemistry and Biochemistry after reviewing the application for admission. Students who are required to take any combination of CHE 4207, 4217, 4237, 4301, and 4316 may apply only one toward fulfilling their M.S. or Ph.D. degree requirements.

Requirements

Most students will find it advisable to take several courses in their major field to assure adequate performance on the preliminary and cumulative examinations. **The student's dissertation or thesis committee may require any course work that it deems proper and advisable.** The Dissertation Committee will consist of at least 5 members, the Advisor, two members from the division faculty, one member from Chemistry and Biochemistry outside of the student's division and one member from outside the Department of Chemistry and Biochemistry. All Committee members must be Graduate Faculty. The Thesis Committee will consist of at least four members, the Advisor, one member from the division faculty, one member from Chemistry and Biochemistry outside of the student's division and one member from outside of the Department of Chemistry and Biochemistry. All Committee members must be Graduate Faculty. In order to broaden the student's perspective of chemistry, an M.S. or Ph.D. student must take a prescribed number of core courses selected from among the following areas: analytical, biochemistry, inorganic, organic, and physical as set forth below. There is no foreign language requirement for the Ph.D.

Note: The requirement for a minor field of study (as described in the Graduate Catalog) does not apply to the graduate degrees in chemistry and biochemistry.

MASTER OF SCIENCE

The minimum semester-hour requirement for the M.S. degree is thirty semester hours including six semester hours of CHE 5V99.

30 sem. hrs.

Lecture course work in the major area from the list of "core courses"	6
Additional lecture course work outside the major area from the list of "core courses"	6
Additional lecture and/or research course work	10
Seminar	2
Thesis	6

DOCTOR OF PHILOSOPHY

General requirements for the Doctor of Philosophy degree are given in the [general requirements](#) section of this catalog. It is not necessary that students with the B.S. degree obtain an M.S. degree in chemistry before pursuing the doctorate.

78 sem. hrs.

Lecture course work in the major area from the list of "core courses"	9
Additional lecture course work outside the major area from the list of "core courses"	9
Additional lecture and/or research course work as determined	45
Seminar	3
Dissertation	12

Core Courses

	Analytical	Biochemistry	Inorganic	Organic	Physical
CHE 5310	5310	5345	5301	4332	5320
CHE 5314	5314	5346	5302	4334	5322
CHE 5315	5315	5347	5305	5332	5325
CHE 5316	5316	5348	----	5334	5326
CHE	----	----	----	5335	----

Analytical

CHE 5310	Advanced Chemical Instrumentation
CHE 5314	Separation Science
CHE 5315	Electroanalytical Chemistry
CHE 5316	Analytical Spectroscopy

Biochemistry

CHE 5345	Selected Topics in Biochemistry
CHE 5346	Biotechnology
CHE 5347	Physical Biochemistry
CHE 5348	Enzymology

Inorganic

CHE 5301	Chemistry of the Elements
CHE 5302	Symmetry and Group Theory in Chemistry
CHE 5305	Organometallic Chemistry and Homogenous Catalysis

Organic

CHE 4332	Organic Synthesis
CHE 4334	Organic Spectroscopy
CHE 5332	Organic Reactions
CHE 5334	Heterocyclic Chemistry
CHE 5335	Physical Organic Chemistry

Physical

CHE 5320	Thermodynamics and Statistical Thermodynamics
CHE 5322	Chemical Kinetics and Mechanics
CHE 5325	Quantum Chemistry
CHE 5326	Lasers and Molecular Spectroscopy

Performance standard: A minimum grade of “B-” is required to satisfy a core course requirement. **IMPORTANT: Graduate School policy states that failure to maintain a minimum overall GPA of 3.0 results in immediate probationary status. Students on probation are ineligible for stipend support and tuition waivers.**

Further details regarding all degrees may be obtained by request from the Graduate Program Director of the Department of Chemistry and Biochemistry.

Prior to graduation, all candidates for the Master of Science or Doctor of Philosophy degree must comply with Department regulations concerning laboratory checkout. The checkout procedure includes a satisfactory inspection of the candidate’s work area by the Department Safety Officer and Risk Management, as well as completion of the Department Clearance Form.

**J. M. Dawson Institute of
CHURCH-STATE STUDIES**

Director: Christopher Marsh

The J.M. Dawson Institute of Church-State Studies was founded in 1957 with the purpose of conducting research in the area of the separation of church and state, a founding principle of our nation that owes much to the influence of Baptist leaders such as Leland, Backus, and others. In carrying out its mission, the Institute honors a threefold commitment to be interfaith, interdisciplinary, and international. Over the years, the Institute has grown at an impressive rate, today encompassing teaching and administrative facilities, the Church-State Research Center, and the Center for Constitutional Studies. The Institute embraces and is supported by the departments of history, philosophy, political science, religion, and sociology. Since 1958, the Institute has published many books and monographs on church-state relations, including since 1959, *The Journal of Church and State*, the only scholarly journal expressly devoted to church-state studies. The graduate programs in church-state studies and religion, politics, and society, each administered by the J.M. Dawson Institute of Church-State Studies, offer to a limited number of students a broad curriculum of interdisciplinary study which can be mastered in-depth in what has been called “the greatest subject in the history of the West.” The graduate programs are flexible enough to accommodate, within certain prescribed limits, the particular interests and needs of the individual students. Contact: J.M. Dawson Institute of Church-State Studies, Baylor University, One Bear Place #97308, Waco, TX 76798-7308; e-mail: Suzanne_Sellers@baylor.edu; telephone 254-710-1510; fax: 254-710-1571.

**MASTER OF ARTS
(in Church-State Studies)**

Admission

For admission to the Master of Arts in church-state studies, applicants must have a baccalaureate degree from an accredited college or university, with a record of undergraduate work that gives indication of genuine scholarly interest and the ability to pursue and complete a program of graduate study. Applicants must qualify for graduate work at Baylor and should have significant undergraduate training in the fields of history, philosophy,

political science, religion, and/or sociology. The GRE General Test is required, and a GPA indicative of success in this program. It should be understood, however, that the attainment of a satisfactory grade point average and GRE score does not necessarily assure admission to graduate study in church-state studies. International students must meet the minimum University requirement on the TOEFL examination for admission to the graduate program in church-state studies.

Requirements

The minimum residence requirement for the Master of Arts degree in church-state studies is one academic year of graduate study. Students who are admitted for graduate work plan their program under the advisement of the director of church-state studies. Those students who meet only minimum entrance requirements may be required to take additional prerequisite courses. All students, however, must complete at least thirty semester hours, twelve semester hours of which must be from the church-state studies curriculum and an additional twelve semester hours which may come from the church-state studies curriculum or from the list of courses approved as electives from affiliated departments. A minimum of twelve semester hours of course work must be from graduate courses numbered 5000 or above. Included in the thirty semester hour requirement is the completion of a six-hour capstone project. The first option is the completion of a thesis for six semester hours. The subject of the proposed M.A. thesis in church-state studies must be approved by the director of church-state studies. The second option entails the completion of a six-hour internship (CHS 5V12) in a field related to church-state studies, including faith-based organizations, human rights, religious freedom, and social justice. All internships must be approved by the director of the institute. Upon completion of the internship, the student must submit an internship final report and successfully pass a comprehensive written and oral examination. The third option requires the completion of six additional hours of course work at the 5000-level chosen from courses taught by the institute. Prior to graduation, students pursuing their degree under this option must also successfully pass a comprehensive written and oral examination on their course of study in the institute.

Requirements for the M.A. in Church-State Studies		30 sem. hrs.
<i>Core Courses</i>		<i>9 sem. hrs.</i>
CHS 5339	Seminar on Church and State in the United States	
CHS 5342	Seminar on Religion, Law, and Politics	
CHS 5361	Religion and Politics in America	
<i>Supplementary Core</i>		<i>3 sem. hrs.</i>
CHS 5341	Seminar on Church-State Relations in the Modern World, or	
CHS 6333	Religion, Politics, and Society	
<i>Electives</i>		<i>12 sem. hrs.</i>
<i>Capstone Project</i>		<i>6 sem. hrs.</i>
CHS 5V99	Master's Thesis, or	
CHS 5V12	Internship, or	
6 additional semester hours of 5000-level course work in church-state studies		

DOCTOR OF PHILOSOPHY **(in Church-State Studies or Religion, Politics, and Society)**

Admission

The J.M. Dawson Institute offers two Doctor of Philosophy degrees, one in church-state studies and the other in religion, politics, and society. Both Ph.D. degrees are designed for qualified students to do graduate work at the highest level in a program of interdisciplinary studies. The general requirements for admission to the Doctor of Philosophy degrees follow those outlined under general requirements for the Ph.D. degree in this catalog. Admission to either doctoral program requires an M.A. degree or its equivalent. The degree must be an accredited degree in history, philosophy, political science, religion, sociology, or another approved field. As with the requirement for admission to the M.A. degree program in church-state studies, international students must meet the minimum University requirement on the TOEFL examination for admission to the doctoral program. Before admission to either doctoral program, each student's total academic record, academic letters of reference, GRE General Test scores, and other pertinent data will be reviewed by the church-state faculty. A GPA predictive of success in this program is required for admission to the doctoral program.

Requirements

A minimum of forty-eight semester hours beyond the M.A. or its equivalent is required for the Ph.D., including thirty-six semester hours of course work, one or two hours of research and writing, CHS 6100, one hour Prospectus Research & Development, CHS 6101, with a minimum of nine hours of dissertation. Each degree requires the completion of a 9 semester hour core, an additional 9 hours of elective courses in church-state studies, one methodology course, and a further 15 semester hours of elective courses. A minimum of one foreign language is required as a research tool related to the student's major field of study and research. Prior to the formation of the student's Ph.D. Examination Committee and commencement of preparations for qualifying examinations, the student must complete the language requirement for the program. Generally, the student must demonstrate intermediate level proficiency in a modern foreign language such as Arabic, German, Greek, French, Korean, Spanish, Italian, Russian, Chinese, Portuguese, or Japanese. Biblical Greek or Hebrew do not qualify as modern foreign languages. Satisfaction of the language requirement in a language other than those named above shall require the approval of the Director of the Institute. Proficiency in a foreign language shall be demonstrated by one of the ways outlined in the General Information section of this catalog.

Following completion of all course work and foreign language requirements, students will sit for comprehensive examinations in three fields of special interest, to be determined in consultation with the director of church-state studies. Students are also required to have prepared a draft of their dissertation prospectus, which has been deemed defensible by the proposed chair of the student's dissertation committee. Along with the content of the student's course work, these will form the basis of the student's preliminary examinations. Specific requirements as well as further details regarding the Doctor of Philosophy degree may be obtained upon request from the office of the Institute of Church-State Studies. Upon satisfactory completion of the preliminary examinations, students will be admitted to candidacy for the Ph.D. degree. In accord with the policy of the Graduate School of the University, "students are recognized as candidates for a doctoral degree only after having met the foreign language requirement, passed the preliminary examinations, completed all residence and departmental requirements except the dissertation, and received approval by the Dean of the Graduate School of their formal application for admission to candidacy for the degree."

Requirements for the Ph.D. in Church-State Studies

Church-State Studies Core 9 sem. hrs.

- CHS 5361 Seminar on Religion and Politics in America
 CHS 5342 Seminar on Religion, Law, and Politics
 CHS 5339 Seminar in Church and State in the United States

Church-State Studies Supplementary Core 9 sem. hrs.

- CHS 4360 Religion and the Body Politic
 CHS 4370 Politics and Religion
 CHS 4376 Eastern Perspectives on Church and State
 CHS 4378 Religion and Politics in the Middle East
 CHS 4379 Islam and Democracy
 CHS 4385 Religious Ethics in a Liberal Democracy
 CHS 5338 Seminar on Church and State in Modern Europe
 CHS 5341 Seminar on Church-State Relations in the Modern World
 CHS 5369 Seminar on American Civil Religion
 CHS 5372 Church and State During the Reformation Era
 CHS 5385 Religion and Education in America
 CHS 6333 Seminar on Religion, Politics, and Society
 CHS 6366 Seminar on Secularization and Desecularization

Methodology 3 sem. hrs.

- SOC 5312 Social Science Data Analysis
 PSC 5323 Research Design and Research Methods
 HIS 5370 Historical Research and Writing
 PHI 4310 Philosophy of Science
 REL 5300 Research, Writing, and Teaching in Religion

Electives 15 sem. hrs.

Dissertation 12 sem. hrs.

Total 48 sem. hrs.

Requirements for the Ph.D. in Religion, Politics, and Society

Religion, Politics, and Society 9 sem. hrs.

- CHS 6333 Seminar on Religion, Politics, and Society
 CHS 5341 Seminar on Church and State in the Modern World
 CHS 5339 Seminar on Church and State in the United States

Religion, Politics, and Society Supplementary Core 9 sem. hrs.

- CHS 4303 International Human Rights
 CHS 4350 Religion and Terrorism in the Modern World
 CHS 4360 Religion and the Body Politic
 CHS 4370 Politics and Religion
 CHS 4376 Eastern Perspectives on Church and State
 CHS 4378 Religion and Politics in the Middle East
 CHS 4379 Islam and Democracy
 CHS 4385 Religious Ethics in a Liberal Democracy
 CHS 5338 Seminar on Church and State in Modern Europe
 CHS 5342 Seminar on Religion, Law, and Politics
 CHS 5361 Seminar on Religion and Politics in America
 CHS 5369 American Civil Religion
 CHS 5372 Church and State during the Reformation Era
 CHS 5385 Religion and Education in America
 SOC 5341 Introduction to the Sociology of Religion

SOC 6314	Advanced Quantitative Methods	
CHS 6366	Seminar on Secularization and Desecularization	
<i>Methodology</i>		<i>3 sem. hrs.</i>
SOC 5312	Social Science Data Analysis	
PSC 5323	Research Design and Research Methods	
HIS 5370	Historical Research and Writing	
PHI 4310	Philosophy of Science	
REL 5300	Research, Writing, and Teaching in Religion	
<i>Electives</i>		<i>15 sem. hrs.</i>
<i>Dissertation, Prospectus and Research</i>		<i>12 sem. hrs.</i>
CHS 6100	(1-2 hrs)	
CHS 6101	(1 hr.)	
CHS 6V99	Dissertation (minimum 9 sem. hrs)	
Total		48 sem. hrs.

Courses Approved as Electives

Courses approved as electives for degrees in church-state studies and religion, politics, and society include the following:

Church-State Studies

CHS 4303	International Human Rights
CHS 4314	Religion and Politics in Contemporary Africa
CHS 4350	Religion and Terrorism in the Modern World
CHS 4360	Religion and the Body Politic
CHS 4367	The Jewish Experience and U.S. Church-State Relations
CHS 4370	Politics and Religion
CHS 4376	Eastern Perspectives on Church and State
CHS 4378	Religion and Politics in the Middle East
CHS 4379	Islam and Democracy
CHS 5338	Seminar on Church and State in Modern Europe
CHS 5339	Seminar in Church and State in the United States
CHS 5341	Seminar on Church-State Relations in the Modern World
CHS 5342	Seminar on Religion, Law, and Politics
CHS 5361	Seminar on Religion and Politics in America
CHS 5369	Seminar on American Civil Religion
CHS 5372	Church and State during the Reformation Era
CHS 5385	Religion and Education in America
CHS 5V85	Readings in Church and State
CHS 6333	Religion, Politics, and Society
CHS 6366	Seminar on Secularization and Desecularization

American Studies

AMS 4338	Women in Religion in America
AMS 5336	History of American Christianity

English

ENG 5376	Religion and Literature Seminar
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History

HIS 4322	Ancient Greece
HIS 4324	Ancient Rome

HIS 4326	Medieval Europe, 300-1000
HIS 4329	The Renaissance and Reformation
HIS 4338	Cultural and Intellectual History of Europe through the Seventeenth Century
HIS 4339	Cultural and Intellectual History of Modern Europe
HIS 4362	American Colonial History
HIS 4395	History of American Thought, 1630-1859
HIS 4396	History of American Thought, 1859 to Present
HIS 5370	Historical Research and Writing

Philosophy

PHI 4314	History of Philosophy: Patristic and Medieval
PHI 4318	Philosophy of Law
PHI 4320	The Philosophy of Religion
PHI 4342	Contemporary American Philosophy
PHI 4361	Social Philosophy
PHI 4V99	Special Topics in Philosophy
PHI 5311	Readings from the Philosophers
PHI 5316	Contemporary Philosophical Problems

Political Science

PSC 4304	Governments and Politics of Latin America
PSC 4305	International Law
PSC 4314	Government and Politics of Mexico
PSC 4334	Governments and Politics of the Middle East
PSC 4344	Government and Politics of Russia
PSC 4355	Power, Morality, and International Relations
PSC 4364	Governments and Politics of Asia-Pacific Region
PSC 4374	Governments and Politics of East Asia
PSC 4381	American Constitutional Law
PSC 4383	Contemporary Political Thought
PSC 4390	Reading Course in Political Science
PSC 5315	Development of International Relations Thought
PSC 5321	Seminar in Public Law
PSC 5324	Seminar in Comparative Politics
PSC 5325	Seminar in International Relations
PSC 5333	Seminar in Political Philosophy
PSC 5340	The American Founding
PSC 5343	Classical Political Thought
PSC 5353	Medieval Political Thought
PSC 5363	Modern Political Thought
PSC 5373	Contemporary Democratic Theory
PSC 5393	Advanced Seminar in Political Philosophy

Religion

REL 4331	History of Roman Catholicism
REL 4332	History of Eastern Orthodoxy
REL 4333	History of Protestantism
REL 4336	Introduction to Religion in America
REL 4345	Religions That Shaped the Western World
REL 4346	Religions of India, China, and Japan
REL 5331	History of Ancient Christianity

REL 5332	History of Medieval Christianity
REL 5336	History of American Christianity
REL 5344	History of Comparative Religion
REL 5346	Judaism and Islam
REL 5348	Judaism in the Post-Holocaust Era
REL 5360	Contemporary Theological Problems
REL 5393	Contemporary Problems in Christian Ethics

Sociology

SOC 4391	Social Theory
SOC 5305	Multicultural Studies
SOC 5320	Seminar on the Community
SOC 5325	Seminar on Complex Organizations
SOC 5326	Seminar in Social Psychology
SOC 5341	Introduction to Sociology of Religion
SOC 5342	Data Sources and Publishing in the Sociology of Religion
SOC 5343	Theory in the Sociology of Religion
SOC 5391	Advanced Sociological Theory
SOC 6083	Proseminar in the Sociology of Religion
SOC 6314	Advanced Quantitative Methods
SOC 6331	The Sociology of Religiosity
SOC 6332	The Sociology of Religious Organizations
SOC 6334	The Sociology of Religious Deviance
SOC 6335	Religion, Morality, and Social Change
SOC 6336	Religion, Race, and Gender

COMMUNICATION SCIENCES AND DISORDERS

Speech-Language Pathology and Audiology

Chair: J. David Garrett

Graduate Program Director: J. David Garrett

The education program (M.S. in CSD and M.A.) in Speech-Language Pathology at Baylor University is accredited by the Council on Academic Accreditation in Audiology and Speech-Language Pathology of the American Speech-Language-Hearing Association, 10801 Rockville Pike, Rockville MD 20852, (301) 897-5700. The requirements governing the selection of courses and clinical practicum experiences must be individualized based upon the date when a student begins the program and the courses that he or she takes. Therefore, all students must consult with the Graduate Program Director for guidance in fulfilling the new American Speech-Language-Hearing Association's 2005 standards.

Students with an undergraduate major in communication sciences and disorders must complete forty-five semester hours for the degree of Master of Science in Communication Sciences and Disorders. A comprehensive examination is required for this degree. The Master of Arts degree in communication sciences and disorders requires the completion of forty-two semester hours, three of which are earned by completion of a thesis.

Students are admitted in the fall, spring, and summer semesters. The department accepts about thirty-five graduate students each year. Admission decisions are based on faculty review of undergraduate transcripts, overall and major GPA, scores on the Graduate Record Examination General Test, personal statements, and letters of recommendation. Certain graduate courses are required of all students to ensure that students are exposed

to a variety of areas in speech-language pathology and audiology. These courses are CSD 4312 (or 5304), 5311, 5312, 5314, 5316, 5318, 5328, three semester hours of 5149, and six semester hours of 5649. There is no foreign language requirement.

Students entering the graduate program without an undergraduate degree in communication sciences and disorders must take additional courses to meet requirements for state licensure and professional certification. The courses are CSD 1308, 2318, 2351, 3308, 3357, 4312, 4358, 4477, four semester hours of 5149, and 5304. Students may request permission from the Graduate Program Director to substitute previously earned credits for one or more courses. These students must take an additional semester hour of 5149.

Graduate students must take the National Examination in Speech-Language Pathology prior to graduation and submit their scores to Baylor.

No students may take clinical practicum courses without departmental approval.

Policies and operating procedures for each of the above degrees are detailed in a program manual provided to each student upon enrollment.

COMMUNICATION STUDIES

Chairperson: David W. Schlueter

Graduate Program Director: Mark T. Morman

MASTER OF ARTS

Human communication is the process by which people create and share messages and meanings in order to pursue relational, rhetorical, organizational, or mediated social goals, purposes, and outcomes. Since the beginning of higher education in the West, Communication Studies has been at the core of the Liberal Arts promoting our understanding of the vital and formative role of social interaction in a variety of contexts. We believe the unique ability of humans to create, sustain, change, and influence their social worlds through human symbolic activity is primary to all we do and to whom we are; indeed, our social world is constituted in and through human communication.

The mission of the Department of Communication Studies at Baylor University is to achieve excellence in teaching, scholarship, research, and production methods through a balance of theory and practice. As such, we hope to provide our students with a unique understanding of the processes of social life, while also encouraging them to become ethical, articulate, and innovative leaders in the field of communication.

The MA degree in communication studies is designed to prepare students to use relational, organizational, rhetorical, and media theory and research in order to pursue career goals including advanced work at the doctoral level, careers in academia, and careers in consulting, business, and the media industry.

Graduate education in the Department of Communication Studies socializes students into two crucial forms of knowing. The first approach is humanistic or qualitative. This approach essentially aims to describe the characteristics of various forms of spoken messages. Rhetorical criticism and theory, analysis of argumentation, the production of film and video artifacts, film theory, and the aesthetics of film and video all fall under the rubric of the qualitative approach. The second approach of studying and researching human communication is grounded firmly in empirical methodologies involving such activities as experimental design, statistical analysis, studies of interpersonal, organizational, and

small group communication, and the process and effects of mass communication. These two crucial forms of knowing will provide students with the opportunity to study several overlapping concentrations within the graduate program.

Areas of Concentration/Study

a. Rhetorical Studies:

This concentration includes courses that investigate the socio-political implications of discourse and argument. The working assumption of this area is that public communication influences decision making processes as well as the creation and formation of identity within cultural systems. Research centers on the production and reception of texts in historical contexts. The production of mediated and non-mediated texts and the effects upon larger social institutions are examined as well. Coursework involves the textual, cultural, and social analysis of oral, written, and visual texts. Theoretical frameworks include generic criticism, deconstruction, argumentation theory, semiotic analysis, feminist criticism, and ideological criticism.

b. Media Studies:

We view the media as a cultural product; as such, this concentration includes courses that focus on the production, reception, and influence of mass media texts. Areas of interest include the impact of digital media, the business of media, the historiography of mass media institutions, textual analyses of films, videos, and television, effects of mass media texts, the uses and gratifications of mass media texts, and mass communication law. Production issues in this emphasis revolve around the creation and production of film, audio, video, and interactive texts, while coursework focuses on the use of new technologies in the production of film, television, and video games.

c. Interpersonal/Organizational Studies:

Because relationships, groups, teams, and organizations are constituted in human communication, this concentration investigates the relationship between communication and the creation and maintenance of our social relationships in personal, group, and organizational contexts. This area focuses on issues such as how communication creates and sustains friendship, romantic relationships, and family. It also focuses on the influence of organizational structures and networks, how communication creates and maintains unique relational or organizational cultures, how communication affects the adoption of innovations, leadership as constituted by communication, crisis communication, communication and cohesiveness in groups and teams, and how communication gives voice to organizational members.

General Degree Requirements for Thesis & Non-Thesis Options

Students may elect to follow one of three options for completion of the M.A. degree: (1) The Thesis option involves the satisfactory completion of 24 hours of coursework (15 hours minimum at the 5000 level) plus 6 hours of thesis; (2) The Professional Paper or Project option involves the completion of 33 hours of coursework (18 hours minimum at the 5000 level) plus 3 hours for the execution of a scholarly paper or professional project; or (3) The Professional Internship option involves the completion of 33 hours of coursework (18 hours minimum at the 5000 level) plus 3 hours for the completion of a business or media related internship. Students are required to take one theory course and one research method course as part of their degree plan and are allowed to take 3 hours of coursework outside the Department of Communication Studies. Most students complete the MA program in two years. A foreign language is not required for graduation.

Admission to the MA Program

The [general requirements](#) for admission to the graduate school at Baylor are listed at the beginning of the Graduate Catalog. All applications for admission must be processed through the Graduate School and then are forwarded to the Department of Communication Studies. Applicants are selected competitively for admittance into the program based on undergraduate GPA, GRE scores, letters of recommendation, a scholarly writing sample, and their personal statement. Students are expected to have a background in communication studies; the graduate faculty reserves the right to require certain foundation courses, as well as advanced courses, according to the needs and specialization of individual students.

Selection of Candidates

In reviewing applications, we look for a combination of academic ability and experience, future goals for professional career development and advancement, and the personality and social skills conducive to a successful career in academia or the professional world. All application materials submitted are considered in our committee-based decision making process; however, minimum requirements for serious consideration include an overall undergraduate GPA of 3.00 or higher, a score of at least 1000 on the GRE (combined verbal and quantitative scores), a scholarly writing sample, and three letters of recommendation from individuals in a position to provide insight into your academic and scholarly abilities. We also strongly recommend a campus visit to Baylor and personal dialogue with the graduate program director and/or other members of our graduate faculty.

Admission to the graduate program in communication studies is granted on a rotating basis. Students may enter the program at the beginning of the fall, spring, or summer sessions. However, teaching assistantships are awarded in the spring and usually start in the fall semester of each year. All application materials for students seeking an assistantship must be received on or before February 15 of the year in which the applicant wishes to begin as an assistant.

Required Application Materials

In addition to the application itself, the overall application process requires a number of items; incomplete applications will not be considered.

1. Official On-line Application w/Personal Statement
2. Official Transcripts of all college/university work
3. Graduate Record Exam—General Test (less than five years old)
4. Three Letters of Recommendation
5. Academic/Scholarly Writing Sample

International students are required to submit either TOFEL or IELTS scores unless they have received a degree from a U.S. accredited institution of higher education.

EARTH SCIENCE
([See Geology](#))

The Institute for ECOLOGICAL, EARTH, AND ENVIRONMENTAL SCIENCES

Director: Joseph D. White

Interim Graduate Program Director: Ryan S. King

The Institute for Ecological, Earth, and Environmental Sciences (TIE³S) offers a unique program for advanced interdisciplinary study leading to the doctoral (Ph.D.) degree. This program utilizes courses and faculty partners from Biology, Chemistry & Biochemistry, Environmental Science and Geology.

Graduate applicants to the program will be required to submit a letter of intent, a supporting letter from a TIE³S Fellow mentor, along with standard GRE scores (taken within the last five years), transcripts, and if necessary TOEFL scores. The letter of intent should indicate a research plan that has been discussed with a potential (TIE³S) Fellow mentor. Applicants are expected to have superior GRE scores and grade point averages. For non-native English speakers, recommended TOEFL scores will be 600 for the “paper” exam and 250 for the “computer” exam.

Students accepted into the program are expected to enter with a master’s degree in Biology, Ecology, Geology, Physical Science, Environmental Science, Chemistry or a related discipline. Candidates with a bachelor’s degree will be accepted provided that they demonstrate through their application exceptional qualities including research experience. A graduate course in basic statistics is also required. Most students are expected to have at least one published work related to their previous research experience. Appropriate background courses or their equivalents for applicants should be in one of the following areas:

- Life Sciences. 24 semester hours in life sciences including courses in ecology, genetics, physiology (animal or plant), and evolutionary biology (e.g., taxonomy or systematic), or
- Physical Sciences. 24 semester hours including courses in geology, earth science, atmospheric science, hydrology, and at least 3 hours in chemistry or biochemistry, or
- Environmental Science. 24 semester hours of science or engineering, including a minimum of 8 hours in advanced chemistry and physical sciences, engineering or environmental science, or
- Chemistry. 24 semester hours including courses in physical chemistry and instrumental analysis, and at least 6 additional hours of course work in one of the three areas listed above.

The degree program has two components: (1) the course work component, and (2) the research component. The course work component requires a qualifying examination early in the Ph.D. program and not less than 60 semester hours, which includes credit for course work beyond the bachelor’s degree and approved by the student’s committee and the Baylor University Graduate School. Course credit from the master’s degree may be applied for by petition to the Graduate School with a maximum of 24 hours allowable. After successfully completing all required course work, the student will concentrate on the remaining research planning leading to the preliminary examination, the doctoral research, dissertation preparation, and the final defense. The dissertation committee administers the preliminary (comprehensive) exam and evaluates the proposal and the student’s preparedness in the area of his/her dissertation and related fields. The preliminary exam will include a written and an oral portion. The written exam will assess the student’s knowledge of foundations of general areas of Biotic Systems, Physical Systems, and Quantitative Analysis. The oral

portion will test the student's knowledge of their proposal background and methodology as an assessment of the student's preparation to move on to the dissertation phase of their program. Admission to doctoral candidacy requires successful completion of the preliminary exam coupled with acceptance of the written dissertation proposal by the doctoral committee.

Specific requirements include a minimum of 60 semester hour credits of approved course work and research credit hours beyond the bachelor's degree, at least 21 of which must be in regular graduate-level foundation courses as required for the Ph.D. by the Baylor University Graduate Catalog. A master's degree from an accredited university may be accepted for up to 24 semester hour credits upon approval of the faculty mentor and Baylor Graduate School. The minimum 60 semester hours required beyond the bachelor's degree may be expanded depending on the student's research concentration, background and recommendation of the graduate committee. Students entering the program with graduate-level work or a master's degree in a related scientific discipline may apply up to 30 semester hours of approved courses toward the Ph.D.

The dissertation will be composed of three published (or submitted) written papers. A student may proceed to the defense with one published work, with two additional submitted manuscripts in national or international journals pertinent to the field of study.

The TIE'S doctoral program does not have a foreign language requirement for the Ph.D. degree; however, students are strongly encouraged to become competent in technological interface skills including computer programming, instrumentation, or analytical software such as SAS, Mathematika or IDL. At least half of the hours of course work (exclusive of dissertation) must be at the 5000/6000 level. The remaining hours will normally come from the dissertation (minimum of 12 hours) and its associated research, but a portion may be devoted to additional course and laboratory work at the discretion of the student's dissertation committee.

A core curriculum is required available from the Biology, Chemistry & Biochemistry, Environmental Science, and Geology departments. All Ph.D. students must fulfill the core curriculum, which consists of foundational course work associated with the holistic earth system curricula and philosophy of the program. These courses exclude research specialization that will depend on mentor expertise and consultation.

Individual courses cannot fulfill more than one core requirement, but may count toward requirements for specialization areas. Students who have completed equivalent courses in a master's program may request waivers from the Graduate Program Director and Graduate Committee. These foundational competencies are designed to give the student a common base for scientific research in the TIE'S program. A plan for completing the foundation courses is to be prepared by the student and their advisor, and then submitted to the student's graduate committee for approval by the start of the student's second semester. Courses taken to fulfill these requirements must be taken for credit and listed on the student's program of study. An overall GPA of 3.0 must be maintained in these courses. The following are acceptable courses to satisfy competency requirement for these foundational areas:

- Advanced Chemistry Foundation Course (3-4 course hours): CHE 4316 Instrumental Analysis, CHE 4341 Biochemistry, CHE 5314 Separation Science, ENV 5387 Environmental Chemistry, GEO 5320 Geochemistry, GEO 5321 Isotope Chemistry, ENV 5303 Environmental Chemical Analysis.
- Numerical Methods of Analysis Foundation Course (3-4 course hours): BIO 5340 Ecosystem Process Modeling, BIO 5413 Advanced Ecological Data Analysis, GEO 4386 Principles of Remote Sensing, GEO 4387 Applied Geographic Information Systems, GEO 5348 Applied Groundwater Modeling, STA 5305 Advanced Experimental Design.
- Physical Systems Foundation Course (3-4 course hours): GEO 4346 Hydrology,

GEO 4459 Engineering Geology, GEO 5340 Paleopedology, GEO 5342 Micromorphology of Soils and Palesols, GEO 5347 Advanced Hydrogeology, GEO 5389 Earth System Science.

- Ecological Foundation Course (3-4 course hours): BIO 4310 Biogeography, BIO 4405 Limnology, BIO 5377 Landscape Ecology, BIO 5404 Wetland Ecology and Management, BIO 5405 Stream Ecology, ENV 4450 Applied Forest Ecology, ENV 5342 Ecological Risk Assessment.

Other course requirements include Seminar Courses (2 course hours) such as those offered through Biology, Chemistry & Biochemistry, Environmental Sciences, and/or Geology. Six more credits in upper-division earth science, ecology, environmental science, and chemistry courses most related to the intended research interest. The number of upper-division credits required varies with the research program recommended by the student's committee. Completion of any courses listed as prerequisites for the courses listed above is also generally required. Finally, six or more credits in dissertation research credit as currently offered as 6V99 courses from Biology, Chemistry & Biochemistry, and Geology.

Existing Courses Applicable to the Ph.D. Degree Program:

Biology:

BIO 4405	Limnology
BIO 4406	Aquatic Biology
BIO 4418	Wetland and Aquatic Plants
BIO 4422	Ichthyology
BIO 4405	Limnology
BIO 4310	Biogeography
BIO 4401	Bacteriology
BIO 4306	Molecular Genetics
BIO 4307	Cellular Physiology
BIO 4381	Restoration Ecology
BIO 5201	Research Methods in Biology
BIO 5303	Behavioral Ecology
BIO 5310	Advanced Microbiology
BIO 5320	Ecological Biophysics
BIO 5330	Conservation Biology
BIO 5340	Ecosystem Process Modeling
BIO 5413	Advanced Ecological Data Analysis
BIO 5360	Biological Invasions: Ecology and Management
BIO 5377	Landscape Ecology
BIO 5401	Microbial Ecology
BIO 5402	Invertebrate Zoology
BIO 5403	Population Ecology
BIO 5404	Wetland Ecology
BIO 5405	Stream Ecology
BIO 5407	Bioenergetics
BIO 5412	Biometrics
BIO 5100	Seminars in Biology
BIO 5401	Microbial Ecology

Chemistry:

CHE 4316	Instrumental Analysis
CHE 4341	Biochemistry
CHE 5314	Separation Science

Environmental Science:

ENV 4375	Natural Landscape Evaluation and Planning
ENV 4349	Introduction to Environmental Engineering
ENV 4355	Principles of Renewable Resources Management
ENV 4321	Energy Economics
ENV 4450	Applied Forest Ecology
ENV 4393	Environmental Ethics
ENV 5303	Environmental Chemical Analysis
ENV 5387	Environmental Chemistry
ENV 5393	Atmospheric Chemistry and Physics
ENV 5379	Ecosystem Management
ENV 5342	Ecological Risk Assessment
ENV 5376	Advanced Urban & Regional Comprehensive Environmental Planning
ENV 5368	Integrated Energy Resource Systems
ENV 5370	Advanced Environmental Toxicology
ENV 5310	Agricultural Ecology
ENV 5373	Advanced Environmental Biotechnology

Geology:

GEO 4313	Oceanography
GEO 4314	Meteorology
GEO 4340	Geomorphology
GEO 4341	Introduction in Hydrology
GEO 4346	Hydrogeology
GEO 4656	Geophysical Field Training
GEO 4459	Engineering Geology
GEO 4371	Wetlands
GEO 4385	Introduction to Geographic Information Systems
GEO 4386	Remote Sensing
GEO 5320	Geochemistry
GEO 5321	Isotope Geochemistry
GEO 5337	Advanced Remote Sensing
GEO 5340	Paleopedology
GEO 5342	Soil and Paleosol Micromorphology
GEO 5347	Advanced Hydrogeology
GEO 5348	Applied Ground Water Modeling
GEO 5349	Urban Geology
GEO 5378	Advanced Studies in Hydrogeology
GEO 5389	Earth System Science

School of EDUCATION

Associate Dean of Academic and Graduate Research: Rodney G. Bowden

Graduate programs in the School of Education seek to prepare students for professional roles in teaching, administration, school psychology, learning resources, health, human performance, leisure studies, and related areas. Each program emphasizes the development of an eclectic understanding of the educational process as well as a competency in a specific

area. The balance between theory/research and practice leads to the development of a professional who can adapt to a variety of educational situations and effectively implement educational programs. Students will demonstrate not only high levels of academic ability but outstanding interpersonal skills, motivation, and dedication to the profession. Graduate degrees in the School of Education are offered through the Departments of Curriculum and Instruction, Educational Administration, Educational Psychology, and Health, Human Performance, and Recreation. The Department of Curriculum and Instruction offers the Master of Arts (M.A.), Master of Science in Education (M.S.Ed.), Doctor of Education (Ed.D.), and the Doctor of Philosophy (Ph.D.). The Department of Educational Administration offers the M.S.Ed. The Department of Educational Psychology offers the M.A., the M.S.Ed., the Education Specialist (Ed.S.), and the Doctor of Philosophy (Ph.D.). The Department of Health, Human Performance and Recreation offers the M.S.Ed., the M.P.H., and the Ph.D.

Admission

The general procedures for admission to graduate study are listed earlier in the Graduate Catalog. All applications for admission must be processed through the Graduate School and then forwarded to the Associate Dean for Graduate Programs in the School of Education for recommendation after evaluation by the appropriate department. The “major” on the application should list the department or certification area in which the student intends to study.

Applicants should consult the individual department sections in the School of Education for specific test requirements. The GRE General Test (or, where allowed by the department, GMAT) is required of all students applying for admission to any level of graduate study, including non-degree, in the School of Education. Scores must be received before any action will be taken on the application and before any course work may be taken. In the Department of Health, Human Performance, and Recreation, a GRE General Test score is required of all students applying for admission.

GPA's that are predictive of success are required for full admission without restrictions on the student's graduate work. In addition to these academic variables, students are evaluated on the basis of their writing skills and their background strengths, including the strength of their undergraduate institution and academic program, the diversity of their undergraduate experiences, and their professional experiences. A student's application may be strengthened by his/her professional development, diversity, and career focus. Specific criteria have been established to evaluate each of these categories, and an admissions committee makes the final decision concerning a student's admission.

Certification is through the State Board for Educator Certification and the awarding of a graduate degree from Baylor University does not mean the individual has been certified. For further information on certification, please contact the School of Education or the State Board for Educator Certification.

MASTER OF ARTS AND MASTER OF SCIENCE IN EDUCATION

The Master of Arts in Education requires a total of 30-33 semester hours, including the satisfactory completion of a thesis.

The Master of Science in Education requires the completion of a minimum of thirty-six semester hours of graduate work, twenty-one of which must be from a single department or in a specific certification program, and eighteen of which must be 5000 level or above. Departments may require more than the minimum, particularly for degrees related to certification or licensure. Please see the section of the catalog which describes departmental programs. The Department of Curriculum and Instruction offers the following programs: initial teacher certification, master reading teacher certification, specializations in

instructional technology, math education, and other content teaching fields. The Department of Educational Psychology offers the following programs: School Psychology license and master of science in education with specializations in assessment, research and statistics, learning and development, special education, gifted and talented or behavior management.

EDUCATION SPECIALIST

The program leading to the Education Specialist degree (Ed.S.) is for students who demonstrate promise in certain fields of education and who desire to gain additional proficiency in these fields. Such a program is to assist in preparing primarily school psychologists. The basis for this study is comprehensive knowledge in some field of education. The minimum residence requirements are thirty semester hours of study beyond the master's degree at Baylor University. Yet, these thirty semester hours of credit are not to be the sole criteria in determining whether students have completed the program. In addition, consideration will be given to students' overall record, including course work, special field examinations, and distinguished accomplishments. At the termination of the period of study, students must pass a comprehensive special field examination. Upon completion of the program, which includes the passing of the examination, the faculty of the School of Education will recommend that the University present the students with an Education Specialist degree. (***Note:** Work applied to the Ed.S. degree does not apply to the Ed.D. degree.*)

DOCTOR OF EDUCATION

Admission requirements for the Doctor of Education Degree (Ed.D.) are outlined earlier in the Graduate Catalog. In this program students may enroll in the Department of Curriculum and Instruction following departmental entrance examinations. Certification in one of the areas mentioned may be a part of the program; however, the intent of the program is to prepare professionals with an in-depth understanding of the profession rather than certification per se. A minimum of sixty semester hours beyond the master's degree is required for completion of the program. The total number of hours required will be determined by the supervisory committee based upon the student's performance on written and oral examinations. At least twenty-seven hours of work must be completed in a major area; a minor field may be selected (eighteen semester hours), or the student may select courses from various departments, with the approval of the committee, to support the major work. Six semester hours for the dissertation may count toward the minimum total of sixty semester hours.

DOCTOR OF PHILOSOPHY

Students pursuing a Ph.D. in Educational Psychology are those interested in becoming instructors in higher education settings and competent researchers. Students must meet the admission requirements outlined earlier in the Graduate Catalog and must also meet the Department of Educational Psychology entrance requirements. These requirements for the Doctor of Philosophy (Ph.D.) are outlined in more detail within the program descriptions in the Department of Educational Psychology. The Doctor of Philosophy in Curriculum and Teaching prepares graduate students for university-based leadership in the field of Curriculum and Teaching. Admission requirements are listed in the Curriculum and Instruction section. The Exercise, Nutrition, and Preventive Health (ENPH) doctoral degree in the Department of Health, Human Performance, and Recreation (HHPR) will serve to prepare students to conduct exercise, nutrition, and preventive health research within a university or corporate setting. In addition, graduates will be qualified to teach exercise science, nutrition, and/or health promotion course work in colleges, universities, or medical schools. Students wishing to pursue the ENPH doctoral program must apply and meet all general requirements for admission to the Graduate School of Baylor University. The applicant's packet will be considered complete when all application materials have

been received. Students must also meet the HHPR Departmental entrance requirements. The requirements for the Doctor of Philosophy (Ph.D.) are outlined in more detail within the program descriptions in the Department of Health, Human Performance, and Recreation.

DEPARTMENT OF CURRICULUM AND INSTRUCTION

Interim Chairperson: Larry J. Browning

Graduate Program Director: Betty J. Conaway

Four graduate degree programs are offered through the Department of Curriculum and Instruction: Master of Arts (M.A.), Master of Science in Education (M.S.Ed.) Doctor of Education (Ed.D.), and Doctor of Philosophy (Ph.D.). The Strickland Scholars Program, a specialized M.S.Ed. degree, includes initial teacher certification.

Graduates from the Baylor University School of Education with master's or doctoral degrees in Curriculum and Instruction are found throughout the world, occupying a variety of unique positions. Their successes are due in large measure to the quality of the program they completed at Baylor. These graduates reflect the mission of the School of Education, which is to prepare educators for leadership, research, instructional and other professional roles to meet the demands of a dynamic and culturally diverse world.

Goals of the Master's Programs

Students completing the master's in Curriculum and Instruction will demonstrate an understanding of: 1) the philosophical and historical foundations of curriculum, 2) research methodologies in education, 3) contemporary instructional strategies, 4) issues and trends in curriculum and instruction, including issues of social justice in education, and 5) the relationship between curriculum, culture and diversity.

Goals of the Doctoral Programs

Students completing the Doctor of Education and the Doctor of Philosophy in Curriculum and Instruction will: 1) demonstrate an in-depth understanding of the philosophical and historical foundations of curriculum in the western world as a whole and in the United States in particular, 2) demonstrate a knowledge of contemporary instructional strategies, 3) plan, implement and analyze a research project in the field of education, 4) critically evaluate quantitative and qualitative research findings, 5) develop competency in technologies used in data analysis, 6) be knowledgeable of contemporary teacher education practices, 7) participate in the preparation of undergraduate teacher education students, 8) develop an expertise in a cognate specialization.

MASTER OF ARTS (M.A.)

The Master of Arts degree is designed to develop a scholarly understanding of educational thought and practice. It seeks to prepare students for continued graduate study in a research program.

The Master of Arts (M.A.) degree requires a total of thirty-three semester hours, including the completion and defense of a thesis. The degree program constitutes a twenty-one hour major in Curriculum and Instruction and a twelve-hour cognate specialization approved by the Curriculum and Instruction Graduate Faculty Committee. The cognate may be completed in graduate programs offered by the School of Education (such as Educational Studies, Instructional Technology, Language and Literacy, Social Studies Education, or Mathematics Education) or by other Baylor University academic units.

Admission (M.A.)

The general requirements for admission to the Master of Arts degree in the Department of Curriculum and Instruction follow the requirements outlined earlier in this catalog for the Master's degree. All applicants must submit an official transcript to indicate completion of a baccalaureate degree from a regionally accredited institution, recent scores from the General

Test of the GRE and three letters of recommendation. Admission is competitive and based on a review of the application materials. The Department of Curriculum and Instruction Graduate Program Director and the Graduate Faculty Committee conduct the review. The review may include an on-campus interview and/or an on-site writing sample.

M.A. Degree Plan

M.A. students follow the M.S.Ed. Degree plan with two exceptions: 1) the required cognate is 12 hours, and 2) the six hours of electives are dedicated to thesis preparation and defense.

MASTER OF SCIENCE IN EDUCATION (M.S.Ed.)

The Master of Science in Education (M.S.Ed.) is a professional degree designed to improve educational practice and to provide preparation for continued graduate study in education.

The degree requires the completion of a minimum of thirty-six semester hours in graduate work with a fifteen-hour Department of Curriculum and Instruction core, a fifteen-hour cognate specialization, and six hours of approved electives. The cognate may be used to develop a specialty area related to education or to improve preparation in a teaching field. With approval, up to fifteen hours may be taken outside the School of Education. Specialty areas offered in the Department of Curriculum and Instruction, include, but are not limited to: Educational Studies, Instructional Technology, Language and Literacy, Social Studies Education, and Mathematics Education.

A written Comprehensive Examination upon program completion is required for the Master's degree.

Admission (M.S.Ed.)

The general requirements for admission to the Master of Science in Education degree in curriculum and instruction follow the requirements outlined earlier in this catalog for the Master's degree. All applicants must submit an official transcript to indicate completion of a baccalaureate degree from a regionally accredited institution, recent scores from the General Test of the GRE taken within the last five years, and three letters of recommendation. Admission is competitive and based on a review of the application materials. The Department of Curriculum and Instruction Graduate Program Director and the Graduate Faculty Committee conduct the review. The review may include an on-campus interview and/or an on-site writing sample.

M.S.Ed. Degree Plan

Required courses

15 sem. hrs

EDC 5321 Contemporary Curriculum
EDC 5303 Models of Teaching
EDC 5348 Issues in Curriculum and Instruction
EDP 5335 Research in Education
EDC 5391 Social Foundations of Education

Electives

6 sem. hrs

Electives from the following; must include three hours technology:

EDC 5370 Technology and Fundamentals
EDC 5372 The Instructor and Technology
EDC 5374 Curriculum and Instruction
EDC 5375 Courseware Development
EDC 5376 Multimedia Development
EDP 5332 Human Growth and Development
EDC 5317 Special Techniques in Secondary Schools

EDP 5333 Psychology of Learning
EDP 5334 Statistical Methods
EDP 5340 Measurement and Evaluation
Other approved elective

Cognate Area	15 sem. hrs
These courses are determined during advisement.	
Total	36 sem. hrs

DOCTOR OF EDUCATION DEGREE (Ed.D.)

The Doctor of Education Degree is a professional degree that concentrates on the use of curriculum and instruction theory, educational research, and practitioner knowledge to improve educational practice. The degree prepares professional educators for roles in curriculum development, instructional improvement and teacher education.

The Ed.D. in curriculum and instruction requires a minimum of forty-five hours of course work in curriculum and instruction as the major field of study. The major includes a twenty-seven hour curriculum and instruction core, a nine to fifteen hour research component and six hours for the dissertation requirement. A fifteen-hour cognate from an approved field must be completed. The cognate may be from programs outside the School of Education. The degree plan may exceed sixty hours. In the first year of study and before completing eighteen hours, a faculty advisor (mentor) will be assigned. A supervisory committee of three graduate faculty members (including the faculty advisor) will be formed to direct the student’s work. After completing thirty hours and before the completion of forty-five hours beyond the master’s degree, the student will complete both a written and oral preliminary examination for admission to candidacy.

The Ed.D. program is offered for both full-time and part-time students. Graduate teaching assistantships, graduate research assistantships, and graduate fellowships ensure that full-time students are actively involved in the professional life of the School of Education and serve an important role in the implementation of Baylor University’s unique field-based undergraduate teacher education program. Doctoral students are members of various undergraduate instructional teams within the department and conduct seminars, teach classes, supervise fieldwork, and assist with research related to teacher education.

Admission (Ed.D.)

The general requirements for admission to the Doctor of Education degree in curriculum and instruction follow the requirements outlined earlier in this catalog for the Doctor of Education degree. All applicants must submit scores from the General Test of the GRE taken within the last five years, official transcripts of baccalaureate and master’s degrees from regionally accredited institutions, and three letters of recommendation. Admission is competitive and based on a review of the application materials. Preference in admissions is given to applicants who have prior K-12 teaching experience. The Department of Curriculum and Instruction Graduate Programs Director and the Graduate Faculty Committee conduct the review. The review may include an on-campus interview and/or an on-site writing sample.

Students are not admitted on probation to the doctoral program.

Ed.D. Degree Plan

Required courses	24 sem. hrs
EDC 5321 Contemporary Curriculum	
EDC 5303 Models of Teaching	
EDC 5348 Issues in Curriculum and Instruction	
EDP 5335 Research in Education	

EDC 5391 Social Foundations of Education
 EDC 537_ Educational Technology (specific course dependent upon proficiency)
 EDC 6390 Seminar: Education
 EDC 6310 Seminar in Curriculum and Instruction

Dissertation **6 sem. hrs**

EDC 6V99 Dissertation

Research component **9 sem. hrs**

EDP 5334 Statistical Methods
 EDP 5335 Research in Education
 EDP 6335 Research Practicum in Education

Electives **6 sem. hrs**

Electives from EDC, EDA or EDP. (Additional research and statistical methods courses are recommended.)
 EDC 6101 Professional Seminar is recommended, but not required.

Approved Cognate Area **15 sem. hrs**

These courses are determined during advisement.

Total **60 sem. hrs**

The Ed.D. Degree plan is often modified during advisement on an individual basis to meet each student's needs.

DOCTOR OF PHILOSOPHY IN CURRICULUM AND TEACHING (PH.D.)

The Doctor of Philosophy in Curriculum & Teaching prepares graduate students for university-based leadership in the field of Curriculum and Teaching. The degree requires a minimum of seventy-one semester hours of graduate work arranged in five blocks of courses: I) Foundations of Education, II) Curriculum and Teaching, III) Research and Statistics, IV) Cognate, and V) Proseminar. All Ph.D. in C&T students complete a 12 hour cognate that typically consists of coursework from outside of the School of Education. Common cognate choices include mathematics, history, English, social studies, moral education, philosophy, literacy, curriculum theory, and foundations of education. The degree plan may exceed 71 hours if students choose to complete additional courses.

Admission (Ph.D.)

Admission to the Ph.D. program in Curriculum & Teaching is selective. Admission is based upon student vocational goals as well as a variety of background, skill sets/aptitudes, and dispositional factors that indicate potential success in the program. The expectations are an expressed commitment for the university-based preparation of future teachers and other educators, promising academic aptitude, successful experience teaching in a K-12 setting, dispositions relevant to being an ethically-principled teacher educator/researcher, strong interpersonal and foundational communication skills (especially writing ability), and reasonable fit with available Baylor faculty resources. Students are not admitted on probation to the Ph.D. program.

Ph.D. Degree Plan

Block I: Foundations of Education

Total hours required: 15

- *EDC 5391 Social Foundations of Education (required--Foundational Core)
- *EDC 6330 History of American Education (required--Foundational Core)
- *EDC 6345 Christian Faith and Education (required--Foundational Core)
- *EDC 6355 Instructional Foundations or appropriate substitute
- *MGT 5V98 Foundations of Leadership Theory or appropriate substitute

Block II: Curriculum and Teaching

Total hours required: 15

Students choose 15 hours from the following:

- EDC 5321 Contemporary Curriculum
- EDC 5303 Models of Teaching
- EDC 5341 Curriculum Theory and Practice
- EDC 5350 Teaching for Understanding
- EDC 6310 Research Practicum
- or approved elective

Block III: Research and Statistics

Total hours required: 27

- *EDP 5335 Research in Education (required--Foundational Core)
- EDP 6360 Experimental Design I (required; Statist. Methods pre-requisite)
- EDP 6335 Research Practicum (required)
- EDP 6336 Qualitative Methods (required)
- EDC 6V99 Dissertation Hours (minimum of 9 hours required)

In addition to the above required R&S courses, students choose 6 hrs from the following:

- EDP 6361 Experimental Design II
- EDC 6339 Ethnographic Research
- EDC 6370 Case Study Research
- EDP 6362 Applied Multiple Regression/Correlation
- EDC 6390 Research Practicum
- or approved elective

Block IV: Cognate Area Options

Total hours required: 12 minimum

Specific courses in cognate area will be selected by students and their adviser. Courses will be taught by a variety of Baylor departments. Examples of cognates include:

Mathematics
History
English
Social Studies
Moral education
Philosophy
Literacy
Religion and Education
Instructional Technology

Curriculum Theory
Foundations of Education
-or other cognate approved by the Department faculty

Block V: Professional Seminar

Total hours required: 2

The purpose of the Professional Seminar (proseminar) courses is to prepare students to enter tenure-track faculty appointments with a clear understanding of what they will need to do in order to thrive in the university environment. Students complete 1 proseminar hour during their first semester and 1 hour later in the program. The second 1 hour professional seminar is completed about the time that students take their preliminary examinations.

Total number of hours in the program: 71

*Denotes Foundational Core Courses that are required of all students: 18 hours

STRICKLAND SCHOLARS PROGRAM

MASTER OF SCIENCE IN EDUCATION (M.S.Ed.) with Initial Teacher Certification

The Strickland Scholars Program is designed to allow prospective teachers to complete a Master of Science in Education degree and (1) secondary and middle level certification in two summers and one academic year while teaching in a secondary school or (2) elementary certification in two summers and two semesters while teaching as instructor of record or completing a one semester student teaching experience. The curriculum is offered in the evenings and summers.

The scholar will be responsible for securing a teaching position within McLennan County or in another approved location in Texas. The Scholar will be paid a regular teacher's salary by the school district and will be supervised by Baylor faculty throughout the completion of the internship.

A teaching position is not guaranteed. If the scholar is unable to secure a teaching position, he or she may be able to complete a one-semester, unpaid student teaching assignment in an area school in place of the internship requirement.

A written Comprehensive Examination upon program completion is required for the Master's degree.

Admission

Strickland Scholars are admitted to the program each summer in cohorts. A typical cohort is made up of fifteen students. Some classes are available to non-cohort students. Applications must be received by February 15, with selected Scholars notified by March 15.

Admission to the program is competitive and based on the following criteria:

1. A bachelor's degree from an accredited institution with a GPA predictive of success in the program (official transcripts required).
2. GRE scores taken within the last five years that are predictive of success in the program.
3. Three letters of recommendation.
4. Admission to the Baylor Graduate School through the Department of Curriculum and Instruction.
5. For those seeking secondary and middle level certification, a minimum of twenty-four hours in at least one teaching field that qualifies for certification by State Board for Educator Certification and in an area which Baylor prepares secondary teachers. For

those seeking elementary certification, undergraduate courses must be distributed in the content areas as specified by requirements of the State Board of Educator Certification.

- 6. Demonstrate competence in speaking and writing the English language, and critical thinking by:
 - a. submitting a written statement of goals.
 - b. satisfactory completion of an interview with one or more faculty members of the Department of Curriculum and Instruction.
 - c. satisfactory performance on the Watson-Glaser Critical Thinking Appraisal.
- 7. Demonstrate competence in content area by:
 - a. transcripts of recent course work in content area and
 - b. interviewing with designated faculty member(s) in the content area.
 - c. completion of the Diagnostic TExES Content Exam at 80%.
- 8. Attend an orientation session.
- 9. Submit to a criminal history check.

Certificate and Endorsement Programs

Certification and advanced degrees may be pursued concurrently; however, a degree program does not require a certification program. With additional course work and some approved modifications in the above degree requirements, students may complete certain certificates or endorsements.

Certification is through the State Board for Educator Certification. The awarding of a graduate degree from Baylor University does not mean the individual has been certified.

M.S.Ed. Strickland Scholars Degree Plan for Secondary or Middle School Certification

Required Courses:			38 sem. hrs.
EDC	5310	Classroom Management Secondary	3
EDC	5370	Educational Technology	3
EDC	5317	Special Techniques for Secondary Schools	3
EDC	5348	Issues in Curriculum	3
EDF	5499	Internship (must be repeated for total of 8 hours)	8
EDC	53xx	a subject specific curriculum course	3
EDC	53xx	a subject specific curriculum course	3
EDP	5335	Research in Education	3
EDC	5303	Models of Teaching	3
EDC	5391	Social Foundations of Education	3
EDC	5319	Reading in the Secondary Schools	3

M.S.Ed. Strickland Scholars Degree Plan for EC-4 Certification

Required Courses:			38 sem. hrs.
EDC	5310	Classroom Management Elementary	3
EDC	5318	Elementary Language Arts	3
EDC	5332	Mathematics in Elementary Grades	3
EDC	5320	Science and Social Studies in EC-4	4
EDC	5370	Educational Technology	3
EDC	5304	Problems in Teaching Reading	3
EDF	5499	Internship (must be repeated for total of 8 hours)	8
EDP	5335	Research in Education	3
EDC	5303	Models of Teaching	3
EDC	5391	Social Foundations of Education	3
EDC	5312	Methods and Materials: Alternative Approaches to Teaching Reading	3

DEPARTMENT OF EDUCATIONAL ADMINISTRATION

Acting Chairperson: Robert C. Cloud

Mission

The primary mission of the department is to prepare quality leadership for elementary and secondary schools, school districts, colleges, and universities.

Degree and Certification Programs

The following degree is offered through the Department of Educational Administration:

Master of Science Degree in Education (M.S.Ed.)

(Higher Education and Student Affairs)

(Principal Certification Preparation)

New doctoral programs in educational leadership are being developed that reflect current research about the best ways to prepare leaders for the twenty-first century. Specific information about them will be disseminated as soon as feasible.

MASTER OF SCIENCE IN EDUCATION

Higher Education and Student Affairs (HESA)

The Higher Education and Student Affairs program curriculum places emphasis on developing student affairs educators who are able to apply theories of college student development, organization, and administration to higher education environments. In addition, because of Baylor's unique position as a Christian research university, students explore the role of faith-based colleges and universities in American higher education.

Each fall cohorts of 15-20 full-time and a small number of part-time students are typically enrolled. Students come from various large public universities, small liberal arts colleges, and private institutions within the United States and occasionally from abroad. Graduates serve at institutions across the country and work in a variety of higher education positions such as student affairs, enrollment management, fundraising, and academic support programs.

The application deadline for fall admission each year is February 1, however applications by December 1 are encouraged when possible. A completed application consists of: 1) an application to the Baylor University Graduate School and application fee; 2) official transcripts from any institution of higher education attended; 3) official Graduate Record Exam (GRE) scores; 4) three letters of recommendation; and 5) a statement of interest and resume. Each element of the application packet is considered. Although there are no minimum requirements for admission, the faculty recommends an undergraduate grade point average of 3.0 or higher and a GRE combined score of at least 1050. (The Higher Education and Student Affairs Program represents an important partnership between the School of Education and the Division of Student Life. As such, full-time students are required to have a graduate apprenticeship that extends the classroom experience to day-to-day practice.)

Courses in the program include the following:

EDA 5100 Professional Seminar

EDA 5289 Foundations and History of Higher Education Administration

EDA 5370 Psychosocial Development in College Students

EDA 5371 Cognitive-Structural Development in College Students

EDA 5372 Culture and Organization of Higher Education

EDA 5394 Planning, Budgeting & Human Resources in Higher Education

EDA 5373 Person-Environment Theories

EDP 5334 Statistical Methods

EDP 5329 Counseling Theories and Techniques
EDA 5391 Cultural Issues in Higher Education
EDA 5374 Moral and Faith Development in College Students
EDA 5392 Higher Education and the Law
EDA 5399 Faith-Based Higher Education
EDA 5378 Capstone Course or
EDA 5V99 Thesis Course

Transfer

A maximum of six semester hours may be transferred from an accredited institution toward a master's degree. Credit for graduate course work transferred from other universities is subject to the following provisions: 1) the work must be equivalent to Baylor graduate-level courses and must have been completed while a student was enrolled in good standing as a graduate student; 2) the work must have been done within five years prior to matriculation into the master's degree program; 3) the school from which the credits are transferred must be accredited by a regional accreditation agency; 4) the student must have earned a letter grade of "B" or above--audited courses or courses taken for "pass/fail" credit will not transfer; 5) none of the transfer course work consists of extension or workshop courses; and 6) petition for transfer of credit occurs after enrollment in the Graduate School. Courses taken at Baylor as a "transfer of credit," post baccalaureate, or non-degree graduate student may be petitioned as a transfer credit toward a graduate degree only after admission to a Baylor graduate program.

First Year Mid-Point Exams

After the conclusion of the first year of study, students will complete a mid-point exam by responding to 3 one-hour essay questions. Responses will be used to assess a student's learning, and ability to apply learning, to the program's foundational bodies of knowledge. These are: 1) student development theory; 2) organizational theory; and 3) faith-based higher education. Two faculty members will review a student's response to essay questions and render a rating. The rating scale (in descending order of performance) is: [5] thorough knowledge, understanding, and application, [4] better than average knowledge, understanding, and application, [3] average knowledge, understanding and application, [2] less than average knowledge, understanding, and application, and [1] not acceptable knowledge, understanding, and application. A student must receive a rating of 3 or better to continue in the program. A student receiving an inadequate rating may petition the graduate program director for the opportunity to re-take the exam one additional time.

MASTER OF SCIENCE DEGREE IN EDUCATION AND PRINCIPAL CERTIFICATION PREPARATION

This program is designed for teachers interested in completing a master's degree and principal certification preparation program. Those who are admitted to the program will receive special financial and related support from Baylor University. The Baylor program incorporates the latest theory and techniques concerning the preparation of educational leaders.

The purpose of the program is to develop K-12 educational leaders who produce superior student performance. Program objectives are: (1) to develop the necessary professional knowledge base in candidates, (2) to develop the necessary skills and dispositions in candidates, (3) to instill in candidates appropriate ethics and values that are essential in educational leaders, and (4) to offer a master's degree leading to Texas school principal certification. Principal certification can only be granted by the Texas State Board of Education Certification.

The Master's Degree program is a 36 semester-hour program designed to accomplish the following purposes: (1) creation of a focused mission to improve student achievement,

(2) articulation of high expectations for all students, (3) identification and implementation of innovative instructional techniques that increase student achievement, (4) creation of a nurturing school environment where every student is valued and is supported by teacher and parents, (5) use of instructional practices based on current data about student learning, (6) development and implementation of teacher-parent partnerships, (7) emphasis on the leadership skills necessary to manage change effectively, (8) emphasis on the importance of time management skills, (9) acquisition and effective use of resources, (10) importance of networking, and (11) the necessity for life-long learning.

Key elements of the Master's Degree Program include:

- a cohort arrangement with small classes
- an emphasis on field-based and problem-based learning
- partial tuition scholarships
- program completion in one and one-half (1 ½) years
- convenient class scheduling

To be considered for the program, candidates must have a minimum of two years teaching experience and satisfy all pertinent Graduate School and department admissions criteria. Candidates with exemplary records of classroom teaching and instructional leadership will be given preferential consideration.

The Baylor University Principal Certification Program exemplifies the university's historic commitment to Pro Texana. For a variety of reasons, the State of Texas has a critical and on-going need for competent, ethical, moral, and value-centered public school leaders from all racial and ethnic backgrounds. Because of its mission and heritage, Baylor University is uniquely and strategically positioned to assist the state in meeting that need.

Courses Include:

EDC 5321	Contemporary Curriculum-Designing and Implementing
EDC 5391	Social Foundations of Education
EDP 5335	Research in Education
EDP 5329	Counseling Theories and Techniques
EDA 5345	Fundamentals of School Administration
EDA 5359	Seminar: School Law
EDA 5V64	Internship in School Administration (3 semester hours)
EDA 5V25	Practicum: Programmatic Domains (PDAS & ILD) (2 hours)
EDA 5357	Community Relations
EDA 5353	The Principalship: Elementary and Secondary
EDA 5344	School Business Management and Finance
EDA 5305	International and Comparative Education
EDA 5129	Folio Assessment and Professional Development (1 hour)

Total

36 sem. hrs.

DEPARTMENT OF EDUCATIONAL PSYCHOLOGY

Chairperson: Eric Robinson

The Department of Educational Psychology offers graduate courses leading to:

I. Master of Science in Education (M.S.Ed.)

A minimum of thirty-six semester hours of graduate work, twenty-one of which must be in Educational Psychology, and eighteen of which must be 5000 level or above. Specializations in assessment, research and statistics, learning and development, special education, gifted and talented education, or behavior management are available

with this degree. More information regarding course requirements are included in the program description.

II. Master of Arts (M.A.)

Thirty semester hours of graduate courses including three hours of thesis and completion of a satisfactory defense. Other requirements must be met as specified for all other master's degrees.

III. Education Specialist (Ed.S.)

The Education Specialist in School Psychology is a 64-hour program that prepares the student for licensure as a Licensed Specialist in School Psychology (L.S.S.P.).

IV. Doctor of Philosophy (Ph.D.)

The Doctor of Philosophy degree requires a minimum of sixty-five graduate hours. Students take 41 hours in core courses and 24 hours in strand courses. More information regarding admission and other course requirements are included in the program description.

Please note the following important information regarding application for admission:

1. Contact the Graduate School to begin the application process.
2. All aspects of the application must be completed by the deadline. If everything is not submitted, the application file is not complete and will not be considered.
3. Applicants submitting their materials by the admission deadline will be contacted for an interview. Following the interview, applications will be considered and applicants will be notified of the results.
4. Prospective students are encouraged to apply by February 1 to increase their chances of obtaining scholarships or an assistantship.

PROGRAMS IN EDUCATIONAL PSYCHOLOGY

Master of Science in Education

Director: Terrill Saxon

The Master of Science in Educational Psychology is designed for students who are interested in individual differences. It is particularly suited for those students who will work with children or adults in educational settings. Students who complete this program will be able to describe (a) the foundations of educational psychology, (b) individual differences in learning and development, (c) research methodologies in education, (d) issues and trends in educational psychology, and (e) relationships between measurement, exceptionalities, and multicultural issues.

This degree requires the completion of a minimum of thirty-six semester hours of graduate work. Twenty-one of these hours consist of a core curriculum in educational psychology that includes one course in each of the following areas: learning (EDP 5333), development (EDP 5332), measurement (EDP 5340), exceptionalities (EDP 5366), cultural issues (EDP 5393), research (EDP 5335), and special problems (EDP 5V95). The remaining hours may include 5000 level courses from one or more of these specializations: assessment, research and statistics, learning and development, special education, gifted and talented, or behavior management. With approval, up to fifteen hours may be taken outside the School of Education. The wide array of specializations allows students to select courses that match not only their interests but their future career goals.

Master of Arts (M.A.)

The Master of Arts requires thirty semester hours of graduate coursework including three hours of thesis. The student must present a satisfactory defense of the thesis. Other requirements must be met as specified for all other master's degrees.

School Psychology Program

Director: Eric L. Robinson

The School Psychology Program is a 64-hour program at Baylor University that leads to the Education Specialist (Ed.S.) degree. The program consists of two full years of graduate study (fifty-eight semester hours) followed by a third year (six semester hours) of internship. The program is designed to comply with the standards of the National Association of School Psychologists (NASP), as well as the Texas State Board of Examiners (TSBEP). The TSBEP has jurisdiction over school psychology in Texas, and while it does not endorse university programs, it does approve the course of study of individual students. The field of school psychology combines the strengths of psychology and education in order to allow its practitioners work to promote the social and emotional health of school aged children and youth. The School Psychology Program at Baylor University strives to provide the best instruction and experiences possible for its graduate students in order to meet the demanding needs of providing specialized services to students and their families, school personnel, and the local community.

Recommended Sequence of Course Work FIRST YEAR

Fall Semester

EDP 5332	Human Growth and Development
EDP 5328	Individual and Academic Assessment I
EDP 5341	Professional Practice and Ethics for School Psychologists
EDP 5366	Psychology of Exceptional Children

Spring Semester

EDP 5367	Psychopathology of Individuals and Families
EDP 5337	Intellectual & Academic Assessment II
EDP 5360	Counseling Children and Adolescents
EDP 5333	Psychology of Learning

Summer I Semester

EDP 5356	Behavior Management
EDP 5393	Cultural Issues with Children and Families

Summer II Semester

EDP 5335	Research in Research Education
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SECOND YEAR

Fall Semester

EDP 5278	Practicum in School Psychology
EDP 5346	Therapeutic Intervention
EDP 5394	Social-Emotional Assessment
PSY 5323	Biological Foundations of Behavior

Spring Semester

EDP 5370	Consultation and Parent Conferences
EDP 5279	Advanced Practicum in School Psychology
EDP 5334	Statistical Methods

Summer I Semester

EDC 5304	Problems in Teaching Reading*
EDA 5345	Fundamentals of School Administration*

THIRD YEAR

Fall Semester

EDP 5382 Internship in School Psychology I

Spring Semester

EDP 5383 Internship in School Psychology II

**There are several options in this area. Substitutions for these courses can be made with prior approval of the director. The course substitutes must be in the same category.*

The School Psychology Program accepts applicants for the fall semester only. Complete credentials should be on file by March 15 in order to receive full consideration for admission. The program will accept between eight to ten students annually and positions will be filled on a quality first-come-first-served basis. Therefore, students are encouraged to apply earlier than the March 15 deadline to ensure acceptance. The School Psychology Admissions Committee will review the applications, and individuals will be notified of their admission status no later than April 15. Students who have been accepted will need to confirm their intention to attend the University in writing by April 25. Applicants who have been accepted but choose not to enroll for the fall semester should reapply for a subsequent enrollment period. For more information, contact Dr. Eric L. Robinson at 254-710-4796, or go ckn Eric_Robinson@baylor.edu. Additional information about the School Psychology Rtiq tco "is on the Internet [j gtg](#).

DOCTOR OF PHILOSOPHY in Educational Psychology

Director: Susan K. Johnsen

The Doctor of Philosophy degree requires a minimum of sixty-five hours of course work plus nine hours of dissertation. The goals of this program are (1) to improve the quality of instruction and research at higher education institutions; (2) to develop teachers who encourage inquiry and creative production; (3) to develop teachers who are scholars; (4) to provide teachers with strategies for adult learners; and (5) to develop researchers with multidisciplinary and interdisciplinary perspectives. Graduates from this program may expect to teach at the higher education level such as in departments of educational psychology or curriculum and instruction, medical schools, at church-related institutions, and at community colleges; coordinate centers for professional development and continuing education in colleges, private education level; develop field-based adult based education programs; become evaluators in public schools; and become researchers in research and development centers. Up to twelve hours may be transferred upon petition approval.

Admission to Doctoral Program

Admission to the Graduate School of Baylor University and the Ph.D. program in Learning and Cognition is conducted by formal application. Students must be admitted to the Ph.D. program.

This program admits a very select number of students with strong academic credentials who are interested in working with faculty in research and development projects. Admission to the doctoral program takes into consideration the following critical factors deemed important for success in graduate studies:

1. A bachelor's degree from an accredited institution.
2. A completed Graduate School application form.
3. Transcripts from all higher education institutions attended.
4. A written statement outlining the goals the applicant hopes to accomplish by completing the degree.

5. Scores on the Graduate Record Examination General Test that are predictive of success in this program. International students are expected to secure a minimum of 550 (213 computer based) on the Test of English as a Foreign Language (TOEFL).
6. A GPA that is predictive of success in this program.
7. Three letters of recommendation.

Once these preliminary admission requirements are met, the applicant will be asked to submit a writing sample and a professional resume. Upon review of all of the information, the Graduate faculty teaching in the Ph.D. program may require a personal interview. This interview will be of sufficient length to allow the applicant as well as the faculty to make an informed decision.

In addition to the listed criteria, the committee may consider the applicant's related work and academic experience, publications, presentations to professional organizations, leadership roles, teaching excellence, awards, career focus, and other professional activities that might provide evidence of potential success in a doctoral program.

Students seeking graduate assistantships need to apply by February 1 for summer and fall semesters. All other applications must be completed by August 1 for fall semester, December 1 for spring semester, and May 1 for summer semester. For more information, contact Dr. Susan Johnsen. Telephone 254-710-6116; e-mail Susan_Johnsen@baylor.edu.

REQUIRED CORE COURSES (41 HOURS)

General/Applied (8 hours)

EDP 6154	Introduction to Multidisciplinary Studies
EDP 6155	Reflection of Multidisciplinary Studies
EDP 6338	Grant Writing
EDP 6340	Practicum in Adult Learning: Campus-Based

Foundations/Research (18 hours + Dissertation)

EDP 6350	History and Systems in Educational Psychology
EDP 6333	Advanced Study of Human Learning
EDP 6332	Advanced Human Growth and Development
EDP 6353	Creativity and Problem Solving
EDP 5393	Cultural Issues with Children and Family
EDP 6335	Research Practicum in Education
EDP 6999	Dissertation

Statistics/Measurement (15 hours)

EDP 6360	Experimental Design I
EDP 6362	Applied Multiple Regress/Correlation Analysis in Education
EDP 6336	Qualitative Research and Data Analysis
EDP 6337	Psychometric Theory and Test Construction
EDP 5340	Measurement and Evaluation

STRAND COURSES (24 HOURS)

(SELECT 12 HOURS FROM EACH OF TWO STRANDS)

Strand 1. Exceptionalities: Assessment

EDP 5328	Intellectual and Academic Assessment I
EDP 5337	Intellectual and Academic Assessment II

EDP 5394	Social-Emotional Assessment
EDP 5357	Single Subject Design

Strand 2. Exceptionalities: Behavior Management

EDP 5346	Therapeutic Intervention
EDP 5356	Behavior Management
EDP 5366	Psychology of Exceptional Children
EDP 5358	Autism
EDP 5357	Single Subject Design

Strand 3. Exceptionalities: Gifted and Talented

EDP 4350	Introduction to the Gifted Child
EDP 5351	Social and Emotional Needs of the Gifted
EDP 5352	Curriculum Development for the Gifted
EDP 5353	Creativity and Strategies for Teaching the Gifted

Strand 4. Learning and Development

EDP 6345	Adult Learner—Advanced
EDP 6330	Seminar: Educational Psychology
PSY 5311	Seminar in Memory and Cognition
PSY 5323	Biological Foundations of Behavior

Strand 5. Measurement

EDP 6367.	Individual Differences
EDP 6361	Experimental Design II
EDP 6366	Item Response Theory
EDP 6365	Latent Variable Models in Education

**DEPARTMENT OF HEALTH,
HUMAN PERFORMANCE AND RECREATION**

Chairperson: Rafer S. Lutz

Graduate Program Director: Glenn A. Miller

Students seeking admission into the Master of Science in Education or the Master of Public Health program within the Department of Health, Human Performance and Recreation (HHPR), must meet the admission requirements of the Graduate School for full or probationary status. The GRE General Test is required. However, for Sport Management, the GMAT may be substituted for the GRE. In addition, applicants must meet specific HHPR program requirements within their selected area of specialization. Candidates who do not meet specific HHPR program admission requirements will be required to complete undergraduate course work to meet identified deficiencies. Previously completed course work will be evaluated on an individual basis to determine if any deficiencies exist in foundation courses for the discipline. Requirements vary within the area of specialization and are noted in the HHPR Graduate Departmental Handbook. Identified courses may be

completed concurrently with graduate work, but must be completed before the student is admitted to candidacy for the degree. Students should contact the HHPR graduate coordinator if they have specific questions regarding this process.

Students must successfully complete requirements for a culminating experience by taking a written examination followed by an oral examination as determined by comprehensive examination committee members. Dependent upon the degree option selected, students must complete the requirements for a thesis, internship, or practicum. After completing the selected requirement/option, the student performs a professional presentation of this experience to a select examination committee. At this time there is no official foreign language requirement in the Department of HHPR.

Comprehensive Examination

Candidates for the master's degree in HHPR are required to take a written comprehensive examination over their program of study. Each semester an examination period is scheduled by the HHPR Graduate Program Director which is in accordance with Baylor University Graduate School deadlines. Students interested in taking the comprehensive examination in a particular semester must notify the HHPR Graduate Program Director in writing of the intent to sit for the examination early in the enrollment period (usually by the end of the second week). The date of the examination is announced at the end of the third week of each semester by the HHPR graduate coordinator. Only one comprehensive exam will be given during the summer and that examination date will be scheduled during the second summer session. Students must pass the examination within the five-year time limit for completion of degree requirements. Students will not be permitted to take the comprehensive examination unless a "B" average has been earned on all graduate work completed and unless admission to candidacy has been approved. In addition, students must be enrolled in their last semester of HHPR departmental course requirements before taking the comprehensive examination.

The examination shall be prepared and graded by the comprehensive examination committee selected from HHPR graduate faculty members within their specific areas of specialization. The committee will consist of graduate faculty members of the major department only. The comprehensive examination will consist of six questions, four questions from the selected specialization core and one question from each of the research methods and statistics requirements. Prior to the deadline established by the Graduate School for each enrollment period, the Graduate School will be notified in writing when students have passed or failed the examination. If the written portion of the comprehensive examination is failed, the student must participate in an oral examination process that will be scheduled within 1-2 weeks after the written examination. Students failing the written and oral examination may repeat it at a time approved by the comprehensive examination committee but no earlier than the next scheduled examination period. Before taking the examination again, students should consult with the comprehensive examination committee which may require the completion of additional course work or other additional study. **Students who fail the comprehensive examination the second time will be dropped from candidacy for the degree. Further, it will be considered failing the comprehensive examination if a student does not take the examination after they have submitted a written request and fail to complete the process.**

Thesis

A thesis is optional for the academic specializations of Athletic Training, Exercise Physiology, Sport Management and Sport Pedagogy, as well as the M.P.H. degree. When elected, the thesis will carry a total of six semester hours. **It is imperative that students selecting the thesis option contact the HHPR Graduate Program Director to begin this process.** Once students have enrolled for thesis credit, they must maintain continuous enrollment for one semester hour of thesis during each regular semester, including at least

one summer term each year, until the thesis has been accepted by the Graduate Dean. Departmental assistance is required for enrollment. Credit is awarded only upon completion and approval of the thesis. No letter grade is given for completing the thesis.

Students will not be permitted to enroll for thesis hours until they have completed a minimum of 18 hours of graduate coursework within their primary area of study within HHPR with a B average (gpa >3.0). Included in these hours, students must have completed their requirements in Research Methods and Statistics. Also, students must have satisfactorily passed the thesis prospectus review before enrolling in thesis credits

Guidelines for Preparing the Dissertation and Thesis is the official handbook for all theses presented to the Baylor University Graduate School. The “**Guidelines**” handbook leads students through the administrative steps for completing the thesis and attempts to ensure that all theses completed at Baylor University present similar appearance and meets all the standards of the Graduate School.

The 'thesis 'must 'meet 'the 'Graduate 'School 'standards 'for 'f'ormat and't'h { 'u'ecri' appearance as outlined in the Baylor University *Guidelines for Preparing the Fl'ugtw' tion and Thesis*. Students are encouraged to follow the HHPR Departmental Vj gulu Checklist that can be obtained from the HHPR graduate coordinator to assist lp'vj lu process.

Internship/Practicum

If the thesis option is not selected an internship or practicum experience must be selected by working closely with the HHPR graduate internship coordinator. The primary purpose of the Internship/Practicum experience is to bridge the gap between the academic present and the professional future. The internship carries a maximum of six semester hours while the practicum carries a maximum of three semester hours. **To enroll in this capstone experience, the student must have maintained at least a “B” average, completed the HHPR core courses for all academic specializations (HP/HED 5379 or EDP 5335 and EDP 5334 or STA 5300) and completed at least 24 hours of graduate course work within the selected academic specialization.**

Academic Specializations

The Department of Health, Human Performance, and Recreation offers two master degrees: a Master of Science in Education degree and a Master of Public Health degree. For the Master of Science in Education degree, students may choose one of the academic specializations listed in a subsequent section. The Master of Public Health degree includes one specialization option in Community Health Education (see [Master of Public Health Degree in Community Health Education](#)). A six hour core curriculum is required in research design and statistics for the Master of Science in Education degree. For the Master of Public Health degree, the same six credit hours in research and statistics are required, and an additional 15-hour core in public health concepts is part of the 42-hour degree. Please visit the HHPR departmental website at www.baylor.edu/SOE/HHPR/ for additional information.

Core Courses Required For All Specializations

HP/HED/RLS	5379	Research Methods in Health, Human PerformanceandRecreation, or	
EDP5335		Research in Education (Sport Management only)	3
EDP5334		Statistical Methods, or	
STA 5300		Statistical Methods	3

Specializations for the Master of Science in Education Degree

Athletic Training

Required: sem. hrs.

Core 6

HP 5360	Assessment and Rehabilitation of the Lower Extremities and Spine	3
HP 5361	Assessment and Rehabilitation of the Upper Extremities and Spine	3
HP 5362	Orthopaedic Rehabilitation and Re-conditioning for Diverse Populations	3
HP 5363	Manual Therapies in Orthopaedic Rehabilitation	3
HP 5352	Advanced Principles of Exercise and Sport Nutrition	3
HP 5354	Advanced Methods of Strength and Conditioning	3
HP 5V75	Seminar in HHPR	3
*HP 5V94	Practicum in HHPR	3

Sub-total 27-30

**Students with a clinical GA position or employment as an Athletic Trainer will replace HP 5V94 with a 3 hour elective.*

**Restricted Electives 0-3*

BIO 4322	Geriatric Physiology	
BIO 4334	Physiology of Aging	
EDP 5332	Human Growth and Development	
FCS 5351	Nutrition and Aging	
HED 5340	Therapeutics for Allied Health Professionals	
HP 4384	Qualitative Analysis of Human Movement	
HP 5328	Physiology of Exercise I-Neuromuscular Aspects	
HP 5330	Physiology of Exercise II-Cardiopulmonary Aspects	
HP 5355	Power, Speed, Agility, Quickness	
HP 5356	Periodized Program Models in Strength Training & Conditioning	
HP 5370	Sport Psychology	
HP 5372	Legal Issues in HHPR and Athletics	
HP 5373	Sport Management	
HP 5384	Biomechanics of Human Movement	

Required Culminating Experience

HP 5V90	Internship- or	
HP 5V99	Thesis	6

Total 36

Exercise Physiology

Required: sem. hrs.

Core 6

HP 5328	Physiology of Exercise I – Neuromuscular Aspects	3
HP 5330	Physiology of Exercise II – Cardiopulmonary Aspects	3
HP 5333	Exercise Testing and Prescription	3
HP 5340	Advanced Biochemistry in Exercise Physiology	3
HP 5352	Advanced Principles of Exercise and Sport Nutrition	3
HP 5354	Advanced Methods of Strength and Conditioning	3
HP 5357	Advanced Methods of Exercise Programming for Individuals with Chronic Diseases & Disabilities	3

Sub-total 27

**Restricted Electives - Advisor Approval* 3

- HP 5358 Environmental Physiology
- HP 5370 Sport Psychology
- HP 5384 Biomechanics of Human Movement
- HED 5337 Health Concepts in Epidemiology, or
- FCS 5351 Nutrition and Aging

Required Culminating Experience

- HP 5V99 Thesis (6) - or
- HP 5V90 Internship Based on Professional Goals & Academic Advisement 6
- Written Comprehensive Exam

Total 36

*Requires Departmental Approval

Exercise Physiology (Strength & Conditioning Emphasis)

Required: sem. hrs.

- Core 6
- HP 5328 Physiology of Exercise I – Neuromuscular Aspects 3
 - HP 5330 Physiology of Exercise II – Cardiopulmonary Aspects 3
 - HP 5352 Advanced Principles of Exercise and Sport Nutrition 3
 - HP 5354 Advanced Methods of Strength and Conditioning 3
 - HP 5355 Power, Speed, Agility, Quickness 3
 - HP 5356 Periodized Program Models in Strength Training & Conditioning 3
 - HP 5384 Biomechanics of Human Movement 3
 - Sub-total** 27

**Restricted Electives - Advisor Approval* 3

- HP 5V70 Special Problems: Strength Training Progressions
- HP 5333 Exercise Testing and Prescription
- HP 5340 Advanced Biochemistry in Exercise Physiology
- HP 5357 Advanced Methods of Exercise Programming for Individuals with Chronic Diseases & Disabilities
- HP 5370 Sport Psychology
- HP 5376 Facility & Event Management

Required Culminating Experience

- HP 5V99 Thesis (6) - or
- HP 5V90 Internship Based on Professional Goals & Academic Advisement 6
- Written Comprehensive Exam

Total 36

*Requires Departmental Approval

Sport Management

Required: sem. hrs.

- Core 9
- HP 5377 Issues and Trends in Human Performance & Sport Management
 - HP 5379 Research Methods in HHPR, or
 - EDP 5335 Research in Education

EDP 5334	Statistical Methods, or	
STAT5300	Statistical Methods	
Ethics Core		
HP 5398	Contemporary Ethical Issues in Sport	3
Field Experience Core		1-6
HP 5V90	Internship	
HP 5V94	Practicum in HHPR	
Finance Core – Choose one course		3
FIN 5362	Seminar in Corporate Short-Term Financial Management	
FIN 5367	Seminar in Financial Planning	
HP 5327	Financial Management in Sport	
Management Core – Choose one course		3
HP 5373	Sport Management	
HP 5375	Governance in Sport	
MGT 5310	Management of Organizational Behavior	
Marketing Core – Choose one course		3
HP 5336	Sport Marketing	
MKT 5310	Seminar in Marketing Strategy	
MKT 5325	Seminar in Marketing Research	
Personnel/Legal Issues Core – Choose one course		3
BL 5305	Legal Aspects of Management Decisions	
HP 5372	Legal Issues in HHPR and Athletics	
MGT 5336	Seminar in Human Resource Management	
Public Relations Core		3
HP 5338	Public Relations in Sport	
Social Context Core – Choose one course		3
HP 5370	Sport Psychology, or	
HP 5374	Sport in the Social Context	
<i>*Restricted electives</i>		<u>6</u>
Total		36

**Determined by the Coordinator of Sport Management Program and the student.*

Additional 5000-Level Courses Available for Electives:

HP 5376	Facility and Event Management	3
HP 5V70	Special Problems in Health, Human Performance, and Recreation	3-6
HP 5V74	Professional Literature Seminar in Health, Human Performance, and Recreation	3-6
HP 5V75	Seminar in HHPR	1-3
HP 5V99	Thesis	3-6

Sport Pedagogy/Coaching

Required:

		sem. hrs.
Core		6 hrs
HP 5377	Issues and Trends in Human Performance & Sport Management	9
HP 5335	Sport Pedagogy	3
HP 5354	Advanced Methods of Strength & Conditioning	3
HP 5368	Motor Learning & Performance	3

HP 5370	Sport Psychology	3
HP 5384	Biomechanics of Human Movement	<u>3</u>
Sub-total		<u>24</u>
<i>*Required Electives</i>		6
**HP 5334	Pedagogy & Physical Education	3
<i>*Requires approval from Sport Pedagogy Director.</i>		
<i>**This class is required for those who want to pursue their teaching certification and Master's degree concurrently. This class serves as 3 hours of the total of 6 elective credits necessary</i>		
<i>Required Culminating Experience</i>		
*HP 5V99	Thesis or	6
*HP 5V90	Internship or	
*HP 5V94	Practicum in HHPR	
<i>*Restricted Electives</i>		<u>6</u>
Total		36
<i>*Requires Departmental Approval</i>		

Master of Public Health Degree in Community Health Education

Required:	sem. hrs.
Required Public Health Core	
STA 5300 Statistical Methods*	3
HED/ENV 5302 Fundamentals of Environmental Health	3
HED 5315 Foundations in Health Education	3
HED 5337 Health Concepts in Epidemiology	3
HED 5378 Administration in Health Education	<u>3</u>
Sub-total	15
Additional Required Courses	
HED 5334 Community Health Education	3
HED 5350 Assessment/Planning in Health	3
HED 5360 Evaluation in Health Education	3
HED 5379 Research Methods*	3
HED 5V94 Practicum**	3
Sub-total	<u>15</u>
Restricted Electives(choose 2**)	6
HED 4321 Human Sexuality	
HED 4327 Dying and Death Education	
HED 4331 Intervention Design in Health Education	
HED 4340 International Health Education	
HED 4341 Cross-Cultural Health Communication	
HED 4355 Human Diseases	
HED 5329 Current Health Issues	
ANT 4325 Medical Anthropology	
EDP 5332 Human Growth and Development	
FCS 5351 Nutrition and Aging	
FCS 5354 Nutrition in Public Health	
RED 5392 Leisure Well-Being in Later Life	
SOC 5331 The Sociology of Health: Health Delivery Systems	

Required Culminating Experience**	6
HED 5V90 Internship/Culminating Project or HED 5V99 Thesis	
Total	42

*HHPR core requirement

**Requires official approval

As all programs have required or restricted electives, students are strongly encouraged to consult with their area director and/or the Graduate Program Director before making elective decisions.

Doctor of Philosophy in Exercise, Nutrition, and Preventive Health

The program is uniquely designed to train researchers to conduct multidisciplinary clinical research evaluating the role of exercise and nutrition on health, disease, rehabilitation, and performance. A minimum of 72 hours will be required. The program will have a 27 hour core providing a foundation to conduct exercise, nutrition and health intervention research by providing a strong foundation in statistics, experimental design, research methods, and laboratory skills. This will allow each student to have a strong statistical background and a detailed understanding of the methods of conducting exercise nutrition, exercise rehabilitation, and preventive health research. We feel that this integrated core experience is essential for researchers to understand how to properly design, evaluate, and conduct multidisciplinary clinical research trials involving exercise, nutrition, and health. Once completed, students will then pursue advanced study in one of three program emphasis areas consisting of 18-21 hours. This will provide specialized training in scientific principles, research methodologies, laboratory techniques of exercise nutrition, exercise rehabilitation, or preventive health. The student will then take 12-15 hours of guided interdisciplinary electives prior to taking 12-18 hours of research and dissertation. The following describes general and specific requirements for admittance to the Doctoral Program in Exercise, Nutrition, and Preventive Health.

General Admission Requirements

Students wishing to pursue the Doctor of Philosophy degree in Exercise, Nutrition, and Preventive Health must apply and meet all general requirements for admission to the Graduate School of Baylor University. Qualified students will be admitted regardless of race, color, national or ethnic origin, gender, age, or disability. The applicant's packet will be considered complete when all application materials have been received.

Department Admission Requirements

The following are the specific requirements from the Department of Health, Human Performance, and Recreation for admission to the Doctor of Philosophy degree in Exercise, Nutrition, and Preventive Health.

1. An equivalent of a master's degree in a related area of exercise physiology, nutrition, health, sport medicine, physical therapy, nursing, or medicine.
2. Completion of a departmental doctoral program application form describing academic preparation, degrees earned, interests in the doctoral program, professional goals, research skills, and teaching/work experience.
3. Samples of writing or copies of representative publications (articles and abstracts).
4. Three letters of recommendation from mentors who have insight regarding potential for success in the doctoral program. These letters are sent directly to the Baylor University Graduate School.

5. An appropriate and acceptable score on the verbal and quantitative portions of the GRE examination or an equivalent level score on the MCAT examination.
6. An overall GPA on graduate work completed at an accredited college or university that is predictive of success in this program.
7. Students who have exceptional work and/or research experience may be considered for provisional acceptance into the program if they do not meet the standardized examination scores or GPA requirements.

General Program Information

Once admitted to the program, the following will serve as guidelines for the period of study, departmental supervision, committee composition, the preliminary examination, admission to candidacy, time limitation, dissertation supervision, the dissertation, and final examination. There is no foreign language requirement for this degree.

Period of Study

The equivalent of three academic years of full-time study beyond the master's degree and the completion of 12-18 semester hours of research and dissertation constitute the minimum requirements for degree completion. The doctorate is not based on a number of courses or time units, but rather on the demonstrated ability to be a contributing scholar. Consequently, an individual may spend more than the minimum time earning the degree.

Departmental Supervision

The Graduate Program Director in the Department of HHPR will serve as the initial supervisor for the student. Students will then be assigned a doctoral program faculty member that will serve as a mentor and advisor throughout the program. This mentor will typically be a graduate faculty member who is conducting research in the area of specialization of interest to the student.

Committee Composition

A doctoral program planning committee will be formed for each student in the doctoral program. The committee will be comprised of the following:

- The student's advisor or dissertation research supervisor
- Two faculty members of the student's emphasis area in either exercise nutrition, exercise rehabilitation, or preventive health
- One faculty member from each of the non-emphasis areas (total of 2 members)
- At least one member of committee from a department outside of HHPR in which the student has taken elective courses.

Preliminary Comprehensive Written Examination

Students will take a four-day written preliminary examination at the end of the second year of study. Two topic areas will be tested each day in two separate four hour exams. The student will be given questions from professors who taught the three core research methods courses as well as from five courses taught in the student's emphasis areas. Students will be expected to appropriately address any topic or topics covered in these courses as well as address related research design and/or statistical questions. Each examination area will be graded by the professor who provided the questions for that area and graded as pass, pass with stipulation, or failure. If the student fails any part of the examination they will fail the exam. If the student passes more than one question with stipulation, they fail the exam. If the student does not pass the preliminary examination, a second examination may be given no sooner than four months after the first examination. After two failures, the student will not be able to continue in the program.

Oral Comprehensive Final Examination

An oral examination that is separate from the oral dissertation defense will be conducted by an examining body within 1-4 weeks after successfully completing the preliminary written examination. The examination committee will be comprised of all professors who participated in evaluating the student during the preliminary written examination as well as one faculty member who has graduate faculty status from another department. The student's academic advisor will chair the examining body and ensure that the examination is formally announced, fairly conducted, and open to the faculty. The oral comprehensive examination will include a 2 hour oral defense with the final oral comprehensive examination committee. Candidates who fail this examination may take a second final oral examination no sooner than four months after the first final oral examination. After two failures, the student will not be able to continue in the program. Ph.D. faculty reserve the right to alter the format of the comprehensive examinations as deemed appropriate.

Admission to Candidacy

Students are recognized as candidates for a doctoral degree only after they have passed the preliminary examination, completed all departmental requirements (except the dissertation), and received approval by the Graduate School of their formal application for admission to candidacy. An application for admission to candidacy must be filed with the Office of the Graduate School upon successful completion of the above requirements, but should be filed no later than five months prior to the date on which the degree is to be conferred. Students must be registered for at least one semester hour of graduate credit during the semester of intended graduation.

Time Limitation

The maximum time limit for the doctoral degree is eight years from the point of matriculation. After this time, the appropriate required course work may be revalidated or not according to the policy of the individual degree program in consultation with the Graduate School. Candidates are not allowed to continue in the doctoral program after ten years has elapsed from the semester of admission.

Dissertation Supervision

The dissertation committee is designated by the Graduate Program Director with the approval of the Graduate School. The student's research mentor is the chairperson of the committee and must be a member of the Graduate Faculty.

Dissertation

The committee will be composed of the following:

- The student's advisor or dissertation research supervisor
- Two graduate faculty members of the student's emphasis area in either exercise nutrition, exercise rehabilitation, or preventive health
- One graduate faculty member from each of the non-emphasis areas (total of 2 members)
- At least one graduate faculty member from a department outside of HHPR in which the student has taken elective courses.

Candidates for the Doctor of Philosophy degree must present an acceptable dissertation on a problem in the field of their major subject. The dissertation must give evidence that the candidate has pursued a program of research, the results of which reveal scholarly competence and a significant contribution to knowledge. Candidates should acquire the *Guidelines for Preparing the Dissertation and Thesis* and other necessary materials at

the beginning of the semester in which graduation is expected. The most recent edition of *Guidelines* is available on the Baylor homepage <http://www.baylor.edu/graduate/>. If the student is unable to download *Guidelines*, a copy can be obtained from the Graduate School. Additional degree completion materials not available on the homepage are provided to students when they file for graduation. The *Guidelines* contain the directions for the procedure to complete the dissertation, an explanation of forms necessary, the semester calendar, and an explanation of fees associated with the process.

Final Examination

This oral examination is conducted by an examining body appointed by the Graduate School upon the recommendation of the Graduate Program Director only after all course, research, and dissertation requirements have been fulfilled. The dissertation research committee is an integral part of the examining committee. The examining body will consist of at least four graduate faculty members from the departmental faculty and one member of the graduate faculty from another department, as outlined above in the Dissertation Supervision information. The chairperson of the Dissertation Research Committee also chairs the examining body and ensures that the examination is formally announced, fairly conducted, and open to the faculty. The final examination will include a 2 hour oral defense with the final examination committee.

Candidates who fail this examination may take a second one only upon the recommendation of the Graduate Program Director and the approval of the Graduate School. In no case will this examination be given until an interval of at least four months has elapsed. After two failures, no further examination is permitted.

Program Course work

A minimum of seventy-two (72) semester hours is required for the Ph.D. No less than twenty-seven (27) hours will come from the research and statistics core. Students will then select one of three research tracks in exercise nutrition, exercise rehabilitation, or preventive health and take a minimum of eighteen (18) hours. Students will also take a minimum of fifteen (15) guided elective hours upon approval of their Advisory/Dissertation Committee. Students may take courses outlined in other emphasis tracks within the Exercise, Nutrition & Preventive Health doctoral program or from the list of approved interdisciplinary electives below. The remaining twelve (12) hours will be dedicated for the dissertation and its associated research. Course outlines for new courses are provided in Appendix B.

Statistics and Research Core (27 Hours)

Ethics Core		sem. hrs.
REL 4395	Bioethics or New SOE course on Christianity in Research	3
Statistics Core		
Students with General Statistical & Mathematical Background*		
STA 5300	Statistical Methods	3
STA 5401	Introduction to Experimental Design (or equivalent)	3
STA 5384	Multivariate Statistical Methods	3
Statistics Restrictive Electives (select one with advisor's approval)		3
EDP 6360	Experimental Design I	3
EDP 6361	Experimental Design II	3
STA 5351	Theory of Statistics I	3

STA 5365	Bio Statistics I	3
MTH 5380	Statistical Methods for Research	3

* The appropriate level of statistics courses the student will be required to take will be determined in consultation with the student's doctoral program committee and faculty members within the Institute of Statistics at Baylor University.

Research Design/Methods Core

ENH 6300	Research Methods: Nutrition & Weight Management	3
ENH 6100	Lab Rotation: Nutrition/Weight Management	1
ENH 6302	Research Methods: Exercise & Rehabilitation	3
ENH 6102	Lab Rotation: Exercise & Rehabilitation	1
ENH 6304	Research Methods: Preventive Health	3
ENH 6104	Lab Rotation: Preventive Health	1

Research Emphasis (18-21 Hours)

Exercise Nutrition

ENH 6320	Nutritional Biochemistry	3
ENH 6322	Exercise, Nutrition, and Endocrinology	3
ENH 6324	Muscle Physiology & Metabolism	3
ENH 6326	Advanced Nutrition I: Macronutrients, Exercise, & Health	3
ENH 6328	Advanced Nutrition II: Micronutrients, Exercise, & Health	3
ENH 6330	Obesity & Weight Management	3
FCS 5351	Nutrition and Aging	3

Exercise Rehabilitation

HP 5333	Exercise Testing and Prescription	3
BIO 5322	Physiology of Aging	3
ENH 6340	Health Aspects of Strength & Conditioning	3
ENH 6342	Health Aspects of Cardiopulmonary Conditioning	3
ENH 6344	Therapeutic Exercise Programming for Special Populations	3
ENH 6346	Orthopedic Rehabilitation	3
ENH 6348	Exercise Adherence/Motivation	3

Preventive Health

HED 5337	Health Concepts in Epidemiology	3
NUR 5350	Advanced Human Pathophysiology	3
ENH 6360	Theories and Strategies for Health Behavior Change	3
ENH 6362	Design of Outcome-Based Health Interventions	3
ENH 6364	Analysis of Health Promotion Interventions	3
ENH 6366	Preventive Health in Medically Underserved Populations	3
ENH 6368	Preventive Health in Aging Populations	3

Guided Electives (15-18 hours selected from other emphasis area courses or interdisciplinary electives)

BIO 5322	Physiology of Aging	3
BMS 5240	Research Methods in Biochemistry	3

BMS 5302	Current Concepts in Immunology	3
BMS 5304	Biochemical and Molecular Genetics	3
BMS 5310	Molecular Biology of the Cell	3
BMS 5343	Studies in Intermediary Metabolism	3
BMS 5344	Clinical Chemistry	3
BMS 5401	Special Techniques in Immunology	3
EDP 5346	Advanced Analysis of Behavior	3
EDP 6336	Qualitative Research and Data Analysis	3
EDP 6337	Psychometric Theory and Test Construction	3
EDP 6338	Grant Writing (Cross-listed as EDC 6338)	3
FCS 5350	Childhood and Adolescent Nutrition	3
FCS 5361	Advanced Nutritional Counseling	3
HCA 5339	Medical Informatics - Health Networks Databases and Applications	3
HCA 5301	U. S. Health Care Systems	3
HCA 5310	Statistics for Health Care Administration	3
HCA 5313	Health Policy	3
HCA 5317	Health Management Information Systems	3
HCA 5311	Health Care Research Methods: Design and Analysis	3
HCA 5320	Advanced Statistical Applications in HealthCare Delivery	3
HED 5337	Health Concepts in Epidemiology	3
HP 5328	Physiology of Exercise I - Neuromuscular Aspects	3
HP 5330	Physiology of Exercise II - Cardiopulmonary Aspects	3
HP 5331	Laboratory Skills in Exercise Physiology	3
HP 5384	Biomechanics of Human Movement	3
HP 5352	Advanced Principles of Exercise and Sport Nutrition	3
HP 5354	Advanced Methods of Strength and Conditioning	3
HP 5357	Advanced Methods of Exercise Programming for Individuals with Chronic Diseases and Disabilities	3
HP 5340	Advanced Biochemistry in Exercise Science	3
HP 5358	Environmental Physiology	3
ENH 6V30	Clinical Research Rotations	1-6
ENH 6106	Research Seminar	1
ENH 6V90	Special Problems in Exercise, Nutrition, and Preventive Health	1-6
NSC 5319	Clinical Neuroscience - Advanced (Cross-listed as PSY 5319)	3
NSC 5330	Neuropharmacology (Cross-listed as PSY 5330)	3
NSC 5360	Neurophysiology (Cross-listed as PSY 5360)	3
NSC 5430	Neuroanatomy (Cross-listed as PSY 5430)	3
NUR 5350	Advanced Human Pathophysiology	3
NUR 5351	Advanced Pharmacology for Nurse Practitioners	3
NUR 5352	Advanced Health Assessment/Promotion/ Disease Prevention	3
PSY 5305	Advanced Experimental Design (Cross-listed as STA 5305)	3
PSY 5307	Advanced Statistics II (Cross-listed as STA 5307)	3
PSY 5334	Health Psychology	3
PSY 5384	Multivariate Statistical Methods (Cross-listed as STA 5384)	3
PSY 5386	Exploratory Factor Analysis (Cross-listed as STA 5386)	3
PT 5323	Pathophysiology of Therapeutic Exercise	3
PT 6310	Soft Tissue and Bone Pathophysiology	3

PT 6340	Functional Anatomy and Biomechanics I	3
PT 6341	Functional Anatomy and Biomechanics II	3
RLS 5392	Leisure Well-Being in Later Life (Cross-listed as SOC 5392)	3
RLS 5396	Administrative Practices and Issues in Recreation Therapy	3
SWO5333	Human Wellness and Health Care	3
SWO5397	Methods in Aging Research (Cross-listed as GRT 5397 and SOC 5397)	3
SOC 6307	Statistical Methods for Survey Research	3
SOC 6310	Mail Surveys	3
SOC 6325	Needs Assessment	3
SOC 6340	Face to Face Surveys	3
SOC 6360	Demographic Modeling	3
SOC 6391	Grant Writing and Proposal Development	3
STA 5300	Statistical Methods	3
STA 5362	Time Series Analysis	3
STA 5364	Survival and Reliability Theory	3
STA 5370	Sampling Techniques (Cross-listed as SOC 6318)	3
STA 5384	Multivariate Statistical Methods (See PSY 5384)	3
STA 5386	Exploratory Factor Analysis (See PSY 5386)	3
STA 5401	Introduction to Experimental Design (See PSY 5401)	3
STA 6351	Advanced Statistical Inference I	3
STA 6352	Advanced Statistical Inference II	3
STA 6353	Nonparametric Statistical Inference	3
STA 6383	Advanced Multivariate Analysis	3
STA 6384	Discrete Multivariate Analysis	3

Research/Dissertation

ENH 6V99 Dissertation (12 - 18 hours)

SCHOOL OF ENGINEERING AND COMPUTER SCIENCE

The School comprises three graduate departments, which offer five masters degrees. The Department of Computer Science offers a Master of Science in computer science. The Department of Electrical and Computer Engineering offers a Master of Science in Electrical and Computer Engineering. The Department of Mechanical Engineering offers a Master of Science in Mechanical Engineering. The two engineering departments offer two additional degrees: a Master of Science in Biomedical Engineering and a Master of Engineering.

DEPARTMENT OF COMPUTER SCIENCE

Chairperson: Donald L. Gaitros

Graduate Program Director: David B. Sturgill

MASTER OF SCIENCE

The GRE General Test is required. A bachelor's degree equivalent to the B.S. in computer science at Baylor or the B.A. in computer science at Baylor with calculus II and linear algebra is the standard requirement for admission. For those applying with less than the standard preparation, the quality and adequacy of the admissions record will be evaluated

by the Graduate Affairs Committee of the Department of Computer Science after reviewing the application for admission. Requirements which must be met before admission will be determined by that committee. These requirements will be in addition to requirements for the M.S. degree.

At least fifteen semester hours are required at the 5000 level excluding 5V92, 5V96, and 5V99. All work presented to meet the requirements for this degree must be approved by the student's Advisory Committee or thesis Committee.

The Graduate Committee will appoint a graduate Advisory Committee for each student to monitor the progress of the student. The Master of Science program in computer science has two options, a thesis option and a project option.

Thesis Option

The thesis option is designed for students who are interested in eventually obtaining a Ph.D. in computer science or for well-qualified students who wish to complete a master's degree in the shortest time possible.

Required Courses		15 sem. hrs.
CSI 4336	Introduction to Computation Theory	
CSI 5324	Software Engineering	
CSI 5350	Algorithms	
CSI 5010	Graduate Seminar	
CSI 5V92	Master's Research (3 hours)	
CSI 5V99	Thesis (3 hours)	

Electives		21 sem. hrs.
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A student's undergraduate preparation will normally include courses in Data Communications and Operating Systems. For students without prior coursework in these areas, one of the following two courses may be taken for graduate credit, but only one of these courses may count toward the master's degree requirements.

CSI 4321	Data Communications
CSI 4337	Operating Systems

With the approval of the advisory committee, the student may take one 5000-level course from outside the department. No more than one course from outside the department may count toward the master's degree requirements.

Except as mentioned above, any CSI course that is offered for graduate credit may be taken as an elective. A total of 21 semester hours of electives are required.

Total		36 sem. hrs.
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Project Option

The project option is designed for students interested in a terminal master's degree. It is also appropriate for students who continue to work while obtaining the degree. This option is designed for a fall entry. The program is intended to be completed in two years by a full-time student, but it is structured so that additional time may be taken to complete the degree.

Required Courses		15 sem. hrs.
CSI 4336	Introduction to Computation Theory	
CSI 5324	Software Engineering	
CSI 5350	Algorithms	
CSI 5010	Graduate Seminar	
CSI 5V92	Master's Research (3 hours)	
CSI 5V96	Project (3 hours)	

Electives**21 sem. hrs.**

A student's undergraduate preparation will normally include courses in Data Communications and Operating Systems. For students without prior coursework in these areas, one of the following two courses may be taken for graduate credit, but only one of these courses may count toward the master's degree requirements.

CSI 4321 Data Communications

CSI 4337 Operating Systems

With the approval of the advisory committee, the student may take one 5000-level course from outside the department. No more than one course from outside the department may count toward the master's degree requirements.

Except as mentioned above, any CSI course that is offered for graduate credit may be taken as an elective. A total of 21 semester hours of electives are required.

Total**36 sem. hrs.**

An oral examination will be required of every student in either option. There is no foreign language requirement for graduation.

JOINT MASTER OF BUSINESS ADMINISTRATION/ MASTER OF SCIENCE

Associate Dean for Graduate Business Programs: Gary R. Carini**Graduate Director in Computer Science:** David Sturgill

The MSCS/MBA joint-degree program creates an opportunity for graduate students to acquire the breadth of understanding and added flexibility needed to operate effectively at the interface between the commercial and technical units of modern industry and society. This dual program satisfies the standard requirements (47 hours) of the individual core courses from both degree programs. In addition, 21 elective course hours are required in Computer Science to bring the joint program total hours to 68. The program is designed to permit a full-time student to complete all requirements for both programs in two years. Upon completion, both degrees are awarded simultaneously. Students are encouraged to contact appropriate advisors in each program for further details.

DEPARTMENTS OF ENGINEERING

Graduate Program Director: Michael W. Thompson

Department of Electrical and Computer Engineering

Chairperson: Kwang Y. Lee

Department of Mechanical Engineering

Chairperson: William M. Jordan

The Departments of Engineering offer Master of Science degrees in Mechanical Engineering (M.S.M.E.), Electrical and Computer Engineering (M.S.E.C.E.), and Biomedical Engineering (M.S.B.M.E.). These programs are designed for students who are interested in engineering careers that require education beyond the baccalaureate degree. Examples of this include engineers performing industrial research and development or students who plan to pursue a doctoral degree.

The Departments of Engineering also offer a Master of Engineering (M.E.) degree for

students who are more practice oriented. This program is ideal for students who have an interest in engineering consulting, product development, or appropriate technology for developing countries.

Students interested in a career requiring advanced and complementary skills in both business and engineering may enter the joint Master of Engineering and MBA degree program. Electives in the engineering program substitute for electives in the MBA program. Students should consult with advisors in both engineering and business to determine the best sequence of courses.

Students who are near completion of their undergraduate engineering degree at Baylor University may enter one of the joint degree programs in which, by proper planning, up to six units of graduate credit may be used toward the degree requirements of both the bachelor's and the master's degrees. The eight joint degree programs are:

B.S.E.C.E./M.S.E.C.E.; B.S.E.C.E./M.S.B.M.E.; B.S.E.C.E./M.E.; B.S.M.E./M.S.M.E.; B.S.M.E./M.S.B.M.E.; B.S.M.E./M.E.; B.S.E./M.S.B.M.E.; B.S.E./M.E.

Admission and Financial Aid

Admission is based on undergraduate academic record, the Graduate Record Examination (GRE), and letters of recommendation for the candidate. Tuition waivers and stipends are available on a competitive basis.

Requirements

Master of Science Degrees	sem. hrs.
Course Work*	24
Thesis (discovery oriented)	6
Total	30
Master of Engineering Degree	
Course Work**	27-30
Project (engineering applications oriented)***	3-6
Total	33

*Courses will be selected in consultation with the student's advisor. Courses in the departments of Mathematics, Statistics, Physics, Chemistry, Biology or Environmental Science may be included in this total with consent of the advisor.

** Courses will be selected in consultation with the student's advisor. Master of Engineering students may take up to 15 hours outside the Department of Engineering in the Master of Business Administration (MBA) program or the departments of Mathematics, Statistics, Biology, Chemistry, or Physics with consent of the advisor. Business courses from the MBA program that can be taken include:

MGT 5320	Manufacturing and Service Operations
ENT 5315	Entrepreneurial Behavior and Skills
ENT 5320	Entrepreneurial Finance

***One emphasis in the Master of Engineering program is *Appropriate Technology for Developing Countries*. Students may choose a project that would involve developing some appropriate technology for a developing country. This will often involve traveling to the developing country to understand the requirements and the constraints, and possibly returning to the country to assist in initial deployment.

JOINT MASTER OF ENGINEERING/ MASTER OF BUSINESS ADMINISTRATION

Associate Dean for Graduate Business Programs: Gary R. Carini

Graduate Director in Engineering: Michael W. Thompson

Students interested in a career requiring complementary skills in both business and engineering may complete the Master of Engineering and MBA degrees concurrently. By proper selection of courses, students can save up to 21 hours in the joint degree compared to the individual requirements of the two separate degrees. Students should consult with advisors in both engineering and business to determine the best sequence of courses.

Master of Engineering students from industry may, with approval of their advisor, select a project that is relevant to their work responsibilities.

Admission

Students must apply and be accepted separately into both programs. Therefore, both the GMAT and GRE exams are required.

Requirements

Candidates for the joint Master of Engineering/MBA degree must complete all degree requirements for the MBA and the Master of Engineering. By proper selection of electives it may be possible to reduce the requirements of the joint degree by up to 21 hours compared to the normal requirements of the two degrees completed separately. This efficiency is achieved by proper selection of business electives for the 15 business course credits allowed for the Master of Engineering program and by a six-credit reduction of the MBA elective requirements reflecting recognition of the additional graduate work in completing the Master of Engineering. Since both degrees are awarded simultaneously, all requirements in both programs must be completed in order to receive either degree. Students are encouraged to contact appropriate advisors in each program for further details.

ENGLISH

Chairperson (Interim): Dianna M. Vitanza

The undergraduate requirements for admission to graduate study in English normally include eighteen semester hours of English beyond the sophomore level. However, if a candidate's background in English is deemed inadequate, the graduate faculty of the department has the prerogative to require additional, designated courses as prerequisites for graduate work. Suitable undergraduate GPAs, both in English and overall, and scores on the Graduate Record Examination General Test (GRE) predictive of success in this program are significant criteria in admissions decisions in the English Department (all applicants must submit GRE General Test scores).

The total number of semester hours required for the Master of Arts degree (thesis track) is thirty, which includes six hours to be credited for the thesis; the total number of hours required for the non-thesis track is thirty-three. An oral examination, which is a defense of the thesis, is required for thesis track students; an oral examination concentrating on course work is required for non-thesis track students. A minor, consisting of six hours of graduate credit, may be taken within the department or in another closely related field. Candidates for the M.A. degree are required to demonstrate intermediate proficiency in a foreign language. To determine the means of satisfying the foreign language requirement, students should consult the statement appearing under "[Specific Degree Requirements](#)" in this catalog.

The preferred foreign languages for programs in the Department of English are French and German, but students may select any modern foreign language or classical language provided that it is necessary for the thesis and is approved by the Graduate Program Director.

For admission into the doctoral program one ordinarily must have a master's degree from an accredited university. However, exceptionally well-qualified students with the B.A. degree who have high GRE scores and a high GPA both in English and overall, as approved by the department, may enter the Ph.D. program. Also, students who enter the M.A. program may petition to enter the Ph.D. program after successfully completing fifteen hours with a GPA of 3.5, without completing the M.A. thesis. The Graduate Program Director appoints a committee of three graduate faculty, usually instructors of the candidate, to study the student's petition and the student's performance. The committee may recommend to the graduate faculty either that the student proceed toward the Ph.D. or complete the M.A.

The general requirements for the Doctor of Philosophy degree in English follow those outlined under general requirements for the Ph.D. degree in this catalog. Completion of forty-two semester hours of graduate credit beyond the M.A. degree constitutes the minimum requirement for the Doctor of Philosophy degree. Ten classes are required beyond the M.A. degree. Twelve hours of the forty-two total must be allocated for the dissertation. If one enters directly from the B.A. degree, then sixty-six hours of graduate credit beyond the B.A. constitutes the minimum requirement (with twelve hours of this total for the dissertation). Eighteen graduate classes are required beyond the B.A. degree. In addition, the English Department requires of all Ph.D. students, during the undergraduate, master's, or doctoral periods of study, one course in Old English Language, one course in introduction to graduate studies (ordinarily a course in bibliography and research), and one upper-level course in linguistics or critical theory or rhetoric and composition. The candidate for the Ph.D. degree is required to take one course in each of four categories and four courses in an area of concentration. Normally, the student will concentrate her/his seminars in one of the categories of English and American literature that she/he has chosen as a concentration. A seminar may be repeated if the content is on a different topic. Students are expected to take the available seminars in the area of their special research. Although a minor is not required, one is possible. Both the major and minor may be and usually are taken within the department in the areas of either English or American literature. Minor courses and any other courses outside of the department may be taken up to 12 hours of graduate credit; these courses must be directly relevant to the student's area of major study. Candidates will be examined on one area from those listed under "Specific Course Requirements" (see "[General Requirements for the Doctoral Degree](#)" provided by the [English Department](#)), on one historical area contiguous with the major area and another historical area, and on one open area (e.g., a genre, a major author, critical theory, rhetoric, linguistics, etc.). All Ph.D. students must demonstrate intermediate-level proficiency in two foreign languages. To determine the means of satisfying the foreign language requirement, students should consult the statement appearing under "[Specific Degree Requirements](#)" in this catalog. The preferred foreign languages for programs in the Department of English are French and German, but students may select any modern foreign languages or classical languages, provided that they are necessary for the dissertation and are approved by the Graduate Program Director.

Students interested in interdisciplinary studies may elect to pursue a Ph.D. concentration in Religion and Literature, one designed to give them the opportunity to pursue interest in the academic study of religion while obtaining a degree that will equip them to fill a traditional position in an English department. For admission into this doctoral program, one ordinarily must have a master's degree in English or American literature from an accredited university. The general requirements for the Doctor of Philosophy degree in English with a concentration in Religion and Literature follow those outlined under general requirements

for the Ph.D. degree in this catalog. Required hours beyond the B.A. or M.A. degree are the same as those outlined above for the regular doctoral degree in English. Students have a range of English and Religion courses to choose from in order to pursue their own research interests within the intersection of Religion and Literature. The specific requirements are as follows: one graduate course in Religion and Literature, one undergraduate or graduate course in Old English language, one course concerned with introduction to graduate studies (ordinarily a course in bibliography and research), and one undergraduate or graduate course in literary theory. Of the remaining course requirements, at least three must be filled by graduate-level courses in the English department with the rest to be chosen from Religion department offerings or cross-listed seminars. Candidates will be examined on one area from those listed under “Specific Course Requirements” (see [“General Requirements for the Interdisciplinary Doctoral Concentration in Religion and Literature”](#) provided by the English Department), one area of religion corresponding to the courses the student has taken, and one area that focuses on the synthesis of Religion and Literature.

All graduate students are responsible for securing the supplementary departmental requirements for their respective degrees from the English office at the time of initial enrollment. The deadline for applying to the M.A. or Ph.D. program is February 15; however, it is clearly advantageous to the applicant who wishes to receive an assistantship to have all components of the application in by January 31. The English graduate program has three types of assistantships available to both M.A. and Ph.D. students. These assistantships carry stipends and tuition coverage that are highly competitive with those offered by other universities. Also, health insurance premiums are paid for Ph.D. students who are Teaching Assistants. Inquiries should be made of the Graduate Program Director.

ENVIRONMENTAL SCIENCE

Chairperson: Susan P. Bratton

Graduate Program Director: Bryan W. Brooks

The Department of Environmental Science offers three degree-options:

- 1) Master of Science in environmental studies for students with a Bachelor of Science degree
- 2) Master of Environmental Studies for students with a Bachelor of Arts degree
- 3) Master of Environmental Studies, non-thesis option for students with a Bachelor of Arts degree

Bachelor of Arts majors in a science discipline may petition for the Master of Science in environmental studies.

The Environmental Science department welcomes master’s candidates with diverse academic backgrounds. Students from majors such as anthropology, aviation science, biology, chemistry, engineering, geography, science education, and policy are encouraged to apply. All applicants must submit GRE General Test scores. The department has developed a graduate core course sequence, ENV 5342 – Ecological Risk Assessment, ENV 5303 – Environmental Chemical Analysis, ENV 5368 – Integrated Energy Resource Systems, and ENV 5379 – Ecosystem Management, open to students with graduate standing in all environmental fields. The program also offers advanced courses in specialized areas such as water resources, natural resource management, environmental toxicology, and environmental chemistry. Under the direction of a major advisor, graduate students may either focus their course work in a specific area, such as water quality, or they may pursue courses that provide a broad background in environmental issues. Graduate students may also take courses offered in other departments, such as Biology, Chemistry, and Geology, if

the courses are appropriate to environmental science or studies and the graduate student's professional goals.

Financial assistance is available for departmental master's students in the form of teaching assistantships, research assistantships, and scholarships. Application for support is competitive; therefore, a letter requesting funding should be submitted to the department's graduate director by February 15, for the following academic year. Loans and other types of aid are available through the Student Financial Aid Office.

Students selecting a thesis option may conduct research in the Waco area, outside the region or internationally. Environmental Science graduate students have conducted research in Asia, Europe, and Central America. Departmental laboratory facilities provide instrumentation and computer support in geographic information systems, computer modeling, water quality analysis, air quality monitoring, and biofuels production. The program engages in field research in a variety of ecosystems, including riparian corridors, reservoirs, grasslands, wetlands, temperate forests, tropical forests, and coastal barrier islands. Current faculty research interests include the social impacts of ecotourism, human dimensions of climate change, wastewater management, water quality, ecotoxicology, improved production of biofuels, conservation of biodiversity, and the ethics of natural resource communities.

Thesis options are appropriate for students interested in research and academic careers, research interest, those pursuing a terminal degree, or those planning careers that require extensive preparation of environmental documentation or plans. A non-thesis option with a required practicum is available for the Master of Environmental Studies (M.E.S.) degree. The semester-long practicum may be either paid or volunteer and must be under a professional supervisor. The non-thesis option is appropriate for students seeking employment in K-12 education, management in environmental organizations, or similar fields. The non-thesis option is not recommended for students planning to pursue a terminal degree, such as a Ph.D.

Objective

The objective of all three degree programs is to train technically competent individuals to assess problems involving environmental issues, to design workable plans, to undertake or direct planned actions toward environmental problem solving, and to work in interdisciplinary teams.

Admission

For admission to the graduate program, candidates must:

1. Meet the general requirements set forth by the Graduate School, including the submission of a Graduate Record Examination (GRE) General Test score.
2. Demonstrate an academic background that is adequate to undertake the course of study that has been defined as the candidate's major area of interest.
3. Present a GPA from undergraduate disciplines that is predictive of success in this program and that supports the candidate's graduate area of interest.

MASTER OF SCIENCE (M.S.)

Requirements

1. Candidates must complete thirty semester hours of graduate courses including six semester hours of research and thesis (5V99). At least twelve semester hours will be 5000-level courses (excluding 5V99).
2. Candidates will present a proposal to their thesis committee that defines the area of environmental interest including the identification of a major problem in the area.
3. When the course work is completed and the thesis is accepted, the candidates must pass a comprehensive oral examination over the work of the program.

4. There is no foreign language requirement.
5. Admission in the Master of Science program requires a Bachelor of Science or Bachelor of Engineering, at least 8 semester hours of chemistry and an additional 40 semester hours of previous course work in sciences, engineering, and mathematics.

Note: The 40 science hours plus 8 hours in chemistry will meet the standards for admission into the Master of Science program for applicants with a Bachelor of Arts degree.

MASTER OF ENVIRONMENTAL STUDIES (M.E.S.)

Thesis Option Requirements

1. Candidates must complete thirty semester hours of graduate courses including six semester hours of research and thesis (5V99). At least twelve semester hours will be 5000-level courses (excluding 5V99).
2. Candidates will present a proposal to their thesis committee that defines the area of environmental interest including the identification of a major problem in the area.
3. When the course work is completed and the thesis is accepted, the candidates must pass a comprehensive oral examination over the work of the program.
4. There is no foreign language requirement.

MASTER OF ENVIRONMENTAL STUDIES (M.E.S.)

Practicum Option Requirements

1. Candidates must complete thirty-six hours of graduate courses. At least twelve semester hours will be 5000-level courses (excluding 5V99 and 5V52). No hours of 5V99 may be counted toward the practicum.
2. Candidates must complete a graduate practicum 5V90 for three credits, present an example of their written professional work to the department's graduate faculty for evaluation, and pass a comprehensive oral examination over the work of the program.
3. There is no foreign language requirement.

The following research is supported by the facilities of the Department of Environmental Science:

1. Specie and Habitat Management
2. Water Quality and Pollution Mitigation
3. Biomass Processing and Renewable Energy
4. Human Dimensions of Resource Management
5. Environment and Development
6. Ecotourism
7. Environmental Ethics
8. Ecotoxicology
9. Air Quality

FAMILY AND CONSUMER SCIENCES

Chairperson: Mary K. "Suzy" Weems

No graduate degree is offered in this department. The following courses are, however, approved for graduate credit in another program:

FCS 4351	Life Cycle Nutrition
FCS 4359	Parenting

FCS 4363	Adolescent Development
FCS 4368	Family Perspectives on Aging
FCS 4387	Advanced Nutrition
FCS 5351	Nutrition and Aging
FCS 5352	Pediatric Nutrition
FCS 5354	Nutrition in Public Health
FCS 5370	Research Methods in Nutrition Sciences

GEOLOGY

Chairperson: Steven G. Driese

Graduate Program Director: Stephen I. Dworkin

The Department of Geology offers graduate work leading to the Master of Science in geology, the Master of Arts in earth science, and the Doctor of Philosophy in geology. Opportunities for research and specialization include theses in: (1) hydrogeology and hydrology; (2) environmental geology, urban geology, geomorphology, Quaternary geology, pedology and soil genesis, and wetlands; (3) geophysics; (4) petroleum geology and stratigraphy; (5) structural geology and tectonics; (6) paleoclimatology, sedimentology, sedimentary petrology, sedimentary geochemistry, and paleopedology; (7) paleobotany, invertebrate paleontology, paleoecology, and modern carbonate environments; (8) igneous petrology and volcanology; (9) geoarchaeology and (10) paleomagnetism.

Facilities

In addition to offices, laboratory, and lecture facilities in the Baylor Sciences Building, many specialized laboratories are located in the new Carlile Geology Research Center, which is adjacent to the Baylor Sciences Building, including laboratories for rock crushing, sawing, and thin-section preparation, as well as for environmental geology, hydrogeology, geophysics, and petrology. Geophysical equipment is available for work in applied seismology, gravity, magnetic, and electrical methods. Equipment includes a gravity meter, a magnetometer, a conductivity meter, a resistivity meter, and a 12-channel seismograph system. All of this equipment is routinely used in class laboratories, as well as in advanced labs and research projects. A borehole logger provides spontaneous potential, resistance, and natural gamma logs to a depth of 1000 feet. Heavy equipment available includes a trailer-mounted drill rig with mud-rotary, auger, and coring capabilities, a vibracoring system, a sub-bottom acoustic profiling system, and a 24-foot specially equipped boat. The boat is unique, containing state-of-the-art, high-frequency profiling and Global Positioning System technology. A Cesium 137 analyzer is available for age-dating sediments and soils. Students interested in the engineering/hydrogeology aspects of geology have at their disposal digital data loggers and transducers to instrument aquifers, watersheds, and slopes. These data collection systems allow for monitoring remote sites and permit downloading of information directly to laptop computers. A Time Domain Reflectometry (TDR) volumetric moisture probe allows for rapid in situ characterization of volumetric soil moisture, integral to water infiltration and recharge studies. A Guelph permeameter is available for characterization of in situ permeability. Geochemistry and petrology laboratories include a capillary electrophoresis unit for quantifying the concentration of common solutes in water, an automated Rigaku X-ray fluorescence (XRF) spectrometer for major and trace element analysis of soils, sediments and rocks, a Siemens D5000 X-ray diffractometer (XRD) instrument for mineral identification, an automated New Wave micro-sampling device, a scanning electron microscope, a CHNS Elemental Analyzer with a liquid and solid autosampler, and a new Thermo-Electron Delta V Advantage isotope ratio mass spectrometer with the following peripherals: Gas Bench II, combustion EA, TCEA, and a dual inlet.

Support labs include a soil-testing lab, microscope, and sample preparation facilities. A Leica M-420 polarizing macroscope and universal stage microscope with digital camera are available for structural petrofabric analysis. An Olympus BX51 research microscope equipped with a high-resolution digital camera and UV fluorescence is also available for thin section work. A Malvern laser particle size analyzer and VSM magnetic susceptibility instruments are available. A paleomagnetic laboratory is currently under construction. The paleomagnetic facility will include a two-layer magnetostratic shield, a cryogenic DC-SQUID magnetometer with an automated sample-changing device capable of performing three-axis measurements on 180 samples successively between computer inputs, two shielded furnaces with controlled atmosphere capability, a static alternating-field (AF) device, and in-line automate rock-magnetic apparatuses including an isothermal-remnant magnetization (IRM) pulse coil and a bulk susceptibility bridge. A new laboratory for investigating nanoparticle transport in saturated flow systems was just constructed in 2009. Our state-of-the-art nanogeoscience lab is equipped with characterization tools to investigate environmental phenomena at the nanoscale. Instruments include a Q-sense E1 quartz crystal microbalance (QCM) for quantifying surface dynamics, a Malvern zetasizer nano series for measuring size and charge of nanoparticles, and a Perkin Elmer ELAN 9000 inductively-coupled plasma mass spectrometer (ICP-MS) for detecting metal concentration at trace level.

Three computer laboratories are available for student use. One contains Sun workstations and a limited number of Pentium computers for special applications. The Remote Sensing and GIS laboratory contains Windows NT workstations, associated servers and peripheral devices. An additional geophysics computing facility is located in the Carlile Geology Research Building. An extensive geology research library is housed in the Jesse Jones Science Librar with a smaller reference collection located in the Baylor Sciences Building.

MASTER OF SCIENCE IN GEOLOGY

To be qualified for admission to graduate study with a major in geology, students must have completed a minimum of twenty-four semester hours of undergraduate geology, including the equivalent of GEO 3342, 3427, 3430, 3435, and 3445. The Graduate Record Examination General Test (GRE) is required within the last five years. A proficiency in the other sciences and mathematics, equivalent to that required for the bachelor's degree in geology (Calculus I and II, two semesters of chemistry, and two semesters of physics) is expected of graduate students in geology.

For the M.S. degree, at least twelve semester hours of credit must be earned from 5000-level courses, excluding 5V99, as part of the graduate program. No more than six semester hours of credit may be earned in special problems, 5V90. GEO 5050 is required for four semesters during residency. A thesis (GEO 5V99 for six semester hours) is required of all students. An oral examination is required.

MASTER OF ARTS IN EARTH SCIENCE

The Master of Arts program in earth science is designed for those students desiring to teach in public schools and junior colleges, or those students seeking an advanced degree in the geosciences.

To be qualified for admission to graduate study with a major in Earth Science, students must have completed a minimum of eighteen hours of course work in the physical or natural sciences, including physical and historical geology (GEO 1405 and GEO 1406). The Graduate Record Examination (GRE) General Test is required of all applicants.

Candidates must complete thirty semester hours of graduate courses including six semester hours of thesis. GEO 5050 is required (for a maximum of four semesters) every fall and spring semester that the student is registered and maintains resident status. A minimum of twelve semester hours (excluding thesis hours) must be 5000-level courses. An

oral defense of the thesis is required of all candidates for the Master of Arts degree in Earth Science. In addition to courses listed under Earth Science, the M.A. candidate may also take any geology graduate course toward their twenty-four hours of course work (excluding thesis). No more than six semester hours of credit may be earned in special problems, 5V90.

DOCTOR OF PHILOSOPHY IN GEOLOGY

All students accepted into the doctoral program must have received a bachelor's or a master's degree in geology or a related field prior to enrolling and must complete a minimum of sixty semester hours beyond the bachelor's degree (including twelve hours of dissertation) for the Ph.D. degree. The Graduate Record Examination (GRE) General Test is required within the last five years. The student's Advisory Committee shall consider his/her past course work and determine the courses needed for this degree. There is no foreign language requirement. All students are required to pass a preliminary examination during their second semester of residence. The dissertation must be completed as three first-authored papers published in refereed journals. All students must enroll in GEO 5050 (Geology Technical Sessions) each semester that he/she is in residence, and must enroll in the GEO 5V90 Grant Proposal-Writing Seminar during the first fall semester of their residence. For further details, see the section on doctoral degrees in the [General Information](#) section of this catalog. The student may not take more than 10 hours of 5V90.

HISTORY

Chairperson: Jeffrey S. Hamilton

Graduate Program Director: Barry G. Hankins

Prerequisite for graduate work in history: an undergraduate major in history, or at least eighteen semester hours of history at the undergraduate level with a degree in the humanities and social sciences or twenty-one semester hours with other degrees; fifteen semester hours of history for a graduate history minor. Applicants must present a score on the GRE General Test predictive of success in this program.

Requirements for a Master of Arts degree in history: thirty hours of history, including HIS 5370 and a six-hour thesis. At least eighteen hours, exclusive of thesis, must be 5000-level courses, and students must take at least one course in each of the three areas-- American, European, and global (i.e. non-western or Latin America). Students may take up to six hours outside the history department with approval of the graduate program director. In addition, each student must demonstrate intermediate proficiency in one modern foreign language by one of the methods listed in the Specific Degree Requirements for the Master of Arts in the General Information section of this Catalog. A comprehensive written examination on course work offered for the degree will be given in the fall and spring semesters, and once during the summer session. Students must pass four of five written examinations and must pass the examination for HIS 5370. The examination, or individual parts, may be repeated once after a three-month delay. Finally, the student must present a satisfactory oral defense of the thesis.

Requirements for a minor in history on the master's level: a minimum of six semester hours of 4000-5000 level courses.

Requirements for a minor in history on the doctoral level: a minimum of twelve semester hours of 4000-5000 level courses.

JOURNALISM AND MEDIA ARTS

Chairperson: Clark G. Baker

Interim Graduate Program Director: Doug Ferdon

MASTER OF ARTS

Admission

The entering candidate must meet minimum requirements established by the Graduate School, and hold a bachelor's degree in journalism or a Bachelor of Arts degree with a major in print or broadcast journalism, or must have a bachelor's degree in another discipline. In the last case, the student must either take nine hours of leveling courses, determined by the department or pass placement examinations meeting department requirements. The GRE General Test is required.

Requirements

The Master of Arts degree in journalism requires thirty-six hours, thirty-three of which are course work and three of which are thesis or a major project. Available areas of degree concentration are news-editorial or public relations. The maximum course load for journalism majors is twelve hours per semester, with approval of the Graduate Program Director.

Course Requirements

Journalism Core

12 sem. hrs.

JOU 5310	Research Methods in Mass Communication
JOU 5320	Theory of Mass Communication
JOU 5350	Seminar in Mass Communication (any topic)
JOU 5V99	Master's Thesis
or	
JOU 5388	Master's Project

Journalism Electives

12 sem. hrs.

Students must complete twelve hours of graduate journalism courses, taken under advisement.

Measurement or Statistics

3 sem. hrs.

Such as:

PSY 4300	Advanced Statistics I
PSY 5302	Measurement in Psychology
SOC 5303	Social Measurement and Causal Modeling
EDP 5334	Statistical Methods

Outside Graduate-Level Research

3 sem. hrs.

Such as:

HIS 5370	Historical Research and Writing
HIS 5367	Seminar in Oral History
PSY 5401	Introduction to Experimental Design
PSC 5323	Seminar in Political Theory and Methodology

Minor Concentration

6 sem. hrs.

MASTER OF INTERNATIONAL JOURNALISM

The Master of International Journalism (M.I.J.) is an interdisciplinary degree program designed for those who wish to prepare for careers in foreign correspondence or in international mass media.

Admission

For admission to the program, applicants must meet the general requirements set forth by the Graduate School. Further, applicants will be evaluated for admission on the basis of practical experience in journalism, or undergraduate formal course work in journalism, or a combination of the two. Some applicants with majors in the sciences, humanities, and fine arts may also be considered. The GRE General Test is required.

Requirements

The Master of International Journalism degree is a professional journalism degree, multidisciplinary in nature, requiring thirty-six semester hours of course work and an internship. No thesis is required. The M.I.J. student must have a suitable portfolio of work approved by the graduate faculty, prior to graduation. Candidacy is determined by the satisfactory completion of the portfolio, thirty hours of course work, and reading and spoken proficiency (intermediate level) in at least one language other than English. Students must demonstrate this proficiency by passing an examination administered by the Department of Modern Foreign Languages. Students whose native language is not English may use English as their foreign language, meeting the requirement set forth by the Department of Modern Foreign Languages. Students in the program who do not have bachelor's degrees in journalism will either take nine hours of leveling courses, determined by the department, or pass placement examinations meeting department requirements.

Journalism Core		9 sem. hrs.
JOU 5310	Research Methods in Mass Communication	
JOU 5320	Theory of Mass Communication	
JOU 5350	Topic: International Journalism	

Secondary Core		9 sem. hrs.
ECO 5338	Seminar in World Economic Systems	

International Issue Course	
3 hours under advisement	

Area Study	
3 hours under advisement	

Graduate-level Electives		12 sem. hrs.
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Electives may be taken from journalism and allied fields, permitting the student to specialize in one international discipline such as economics, environmental studies, or political science, or in a combination of graduate courses in other disciplines with approval of the Graduate Program Director.

Internship		6 sem. hrs.
JOU 5V01	International Journalism Internship	

Total		36 sem. hrs.
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LATIN AMERICAN STUDIES

Director: Lizbeth Souza-Fuertes

The graduate program in Latin American studies is offered as a minor in the M.A. and the Ph.D. programs. Prerequisites for graduate study are intermediate level proficiency in Spanish or Portuguese or another language needed for research and acceptance into the graduate program in a field for which the Latin American area is a suitable minor. The GRE General Test is required.

The student, with the advice of the director of the Latin American studies program, will select courses from those listed below.

Courses available for a minor in Latin American Studies are as follows:

ECO 4332	Economic Problems of Latin America
HIS 4357	Inter-American Relations
LAS 4350	Latin American Studies Seminar
LAS 4390	Advanced Reading and Research/Latin American Studies
PHI 4331	Latin American Philosophy
SPA 4376	The Spanish-American Novel
SPA 4377	Contemporary Spanish-American Novel

MATHEMATICS

Chairperson: Lance Littlejohn

Graduate Program Director: Mark Sepanski

The Department of Mathematics offers the Master of Science and the Doctor of Philosophy degrees.

Admission

The minimum requirements for beginning graduate work in either the Master of Science or the Doctor of Philosophy degree is twenty-seven semester hours of approved undergraduate mathematics including at least fifteen hours on the advanced level. The GRE General Test is required of all applicants.

The following should be included in the twenty-seven semester hours of mathematics required for admission: three semester hours of abstract algebra equivalent to MTH 4314 and three semester hours of advanced calculus equivalent to MTH 4326.

If the twenty-seven-hour minimum is met and either the abstract algebra or the advanced calculus requirement is not met, then the student may be admitted and the missing courses must be taken in residence. However, such courses will not apply to the thirty-three hours of general requirements for the master's degree or the seventy-two hours required for the Ph.D.

Application

The application procedure including the online application is described in the Admissions section under General Information of this catalog. The Department of Mathematics does not require any special material from the applicant.

Financial Support

The Department of Mathematics offers Graduate Teaching Assistantships to selected students. An assistantship provides a stipend at a competitive level and tuition remission for up to nine hours per semester. Support for one summer session is usually available. Graduate Assistants normally work as tutors, grade papers, or teach one course. An application to the graduate program in mathematics is also considered an application for an assistantship.

More information concerning the graduate programs in mathematics is available at www.baylor.edu/Math/.

MASTER OF SCIENCE

Thesis Option. Thirty-three semester hours of approved graduate courses including six hours of an approved thesis. One-half of the courses, exclusive of the thesis, must be in approved courses numbered above 4V99. It usually takes two semesters to complete work on a thesis.

Project Option. Thirty-three semester hours of approved graduate courses including a project (MTH 5390). One-half of the courses, exclusive of the project, must be in approved courses numbered above 4V99.

Course Option. Thirty-three semester hours of approved graduate courses. One-half of the courses must be in approved courses numbered above 4V99.

Required Courses12 sem. hrs.

MTH 5310	Advanced Abstract Algebra I
MTH 5323	Theory of Functions of a Real Variable I
MTH 5350	Complex Analysis
MTH 5330	Topology

Thesis Option6 sem. hrs.

MTH 5V99	Thesis
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Project Option3 sem. hrs.

MTH 5390	Special Problems in Mathematics
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Electives*12-18 sem. hrs.

Any 4000 or 5000 level graduate MTH course except MTH 4314 and MTH 4326, any 5000 level STA course, or other electives only as approved by the Department of Mathematics

Total33 sem. hrs.

**The thesis option has fifteen hours of electives, the project option has eighteen, and the course option has twenty-one.*

The thesis and project options require an oral examination. The course option requires a written comprehensive examination.

No foreign language is required for the Master of Science degree.

Students who wish to concentrate in statistics are advised to complete the following as electives:

MTH 4386	Mathematical Statistics II
MTH 4382	Intermediate Statistical Methods or
MTH 5380	Statistical Methods for Research
MTH 5381	Regression Analysis

DOCTOR OF PHILOSOPHY

A minimum of seventy-two semester hours is required for the Ph.D. degree in mathematics. These seventy-two hours must include at least forty-eight hours of approved graduate level courses and at least twelve hours of dissertation credit (MTH 6V99). Other requirements include qualifying examinations in two of the four core areas of abstract

algebra, applied mathematics, topology, and real variables, a preliminary examination in two related mathematics courses above the level of the courses designated for the qualifying examinations and a defense of the dissertation. No foreign language is required for the Ph.D. degree. Adequate progress toward the Ph.D. degree includes: the passing of two qualifying exams by the beginning of the third year of study, passing the preliminary exam within a year of passing the last qualifying exam, and completing the degree by the sixth year of study. Exceptions to this timeline must be approved by the Graduate Director and Mathematics Graduate Committee.

CORE CURRICULUM

Required Courses 21 sem. hrs.

MTH 5310	Advanced Abstract Algebra I
MTH 5311	Advanced Abstract Algebra II
MTH 5323	Theory of Functions of Real Variables I
MTH 5324	Theory of Functions of Real Variables II
MTH 5330	Topology
MTH 5331	Algebraic Topology I
MTH 5350	Complex Analysis
MTH 5360	Applied Mathematics I
MTH 5361	Applied Mathematics II

Students must earn a grade of B or better in each of the seven core courses. Furthermore, the seven core courses must include MTH 5310, 5323, 5330, and 5350.

Dissertation 12 sem. hrs.

MTH 6V99

Electives 27 sem. hrs.

Any course approved for the Master of Science degree in Mathematics, any MTH or STA course at the 6000 level or other electives only as approved by the Department of Mathematics

Additional hours selected from the list of electives or dissertation (MTH 6V99) 12 sem. hrs.

Total **72 sem. hrs.**

MUSEUM STUDIES

Interim Chairperson: Kenneth C. Hafertepe

Graduate Program Director: Kenneth C. Hafertepe

The Department of Museum Studies offers a Master of Arts degree in museum studies. The program consists of thirty-six semester hours, an internship option and either a thesis or master's project.

Admission

An applicant for the master's degree in museum studies should have a baccalaureate degree, documentation of a GPA in previous college or university study and scores on the GRE General Test predictive of success in this program. Under certain circumstances, students who do not meet all requirements may be admitted into the program on probation and may be required to take undergraduate leveling courses before formal admittance to the program.

Requirements

Thirty-six semester hours, including MST 5301, 5304, 5309, and 5311, and a minimum of six semester hours of thesis or master's project are required for the degree. All students in either the thesis or non-thesis program are required to take a final oral examination. Up to six semester hours of graduate study in museum studies or a cognate field may be transferred from another accredited institution with the approval of both the Department of Museum Studies and the Graduate School. Prospective students are encouraged to have a pre-admission interview.

Minor in Museum Studies

The Department also offers a minor in museum studies for those in cognate fields who would like to gain insight into the mission, management, operation, and use of museums, or to prepare those interested in serving as museum trustees. The minor requires nine semester hours including MST 5301.

SCHOOL OF MUSIC

Graduate Program Director: David W. Music

Accreditation

The School of Music graduate programs are accredited by the National Association of Schools of Music.

Graduate Degrees in Music

Graduate studies in music at Baylor University are designed to bring students to the highest levels of performance and scholarship of which they are capable. The graduate faculty of the School of Music is comprised of individuals who have distinguished themselves in their chosen disciplines and who maintain active performance, research, and other professional interests. Graduates from Baylor's School of Music hold positions in orchestras, opera companies, churches, academic settings, and other venues throughout the world. Assistantships are available in many performance and academic areas to enable students of superior ability to pursue a quality education in music at Baylor.

Graduates of recognized four-year courses leading to a bachelor's degree in music may become candidates for the Master of Music degree. Students desiring to become candidates for the degree must have the equivalent of the undergraduate major in music at Baylor University in the field of concentration in which they wish to continue. Those who lack courses prerequisite to graduate study may make up the undergraduate work, for which graduate credit may be granted, provided the course work is at the 4000 level and appropriate to the degree program. All students will take music theory and music history diagnostic examinations. Appropriate remedial course work may be required.

Admission

Applicants for degrees with emphasis in performance, collaborative piano, piano pedagogy, or the performance option of church music must audition (in person or submit a recording of a recent performance) with repertoire of at least senior recital level. A repertoire list must be submitted for evaluation at the time of the audition. Applicants for the major in composition or the composition option in church music must submit a portfolio of recently completed compositions. An example of a recent paper is required of applicants who intend to pursue an emphasis in music history and literature, church music, or music theory. Applicants in music education must submit a sample teaching video, a writing sample,

and a professional resume. Applicants seeking admission to the conducting program must submit a video of their work. Papers, composition portfolios, videos, and audio recordings should be submitted to the Graduate Program Director, School of Music, One Bear Place #97408, Baylor University, Waco, TX 76798-7408.

The Graduate Record Examination General Test (GRE) is required of applicants in music education, music history and literature, music theory, composition, and conducting; the GRE General Test is not required of church music, performance, piano pedagogy and performance, or collaborative piano majors.

Applicants in music history and literature must possess intermediate proficiency in German or French (see Graduate School Language Requirement).

Special Requirements for Master's Degrees

The normal time for completion of the requirements for the degree ranges from two semesters and a summer to four semesters. A minimum of thirty semester hours is required. No correspondence work may be counted for graduate credit.

Enrollment in an ensemble, as assigned by the conducting faculty, is required throughout the term of residence. Ensemble participation is not required of Music Education students. Students in piano performance, piano pedagogy, collaborative piano, and organ performance may fulfill the ensemble requirement through accompanying as assigned by the Coordinator of Collaborative Piano.

All candidates for a master's degree must pass a comprehensive oral examination. Students who desire to pursue a double major (e.g., Music Theory and Piano Performance) must fulfill all application requirements for and be accepted by both areas. An additional 15-17 credit hours will be required to complete the major in the second area (the number of hours depends upon the majors chosen). Except for the core course requirements of 9 credit hours, no courses can be credited toward degree requirements in both areas (e.g., a recital in Piano Pedagogy and Performance cannot be used to fulfill degree requirements in Piano Performance).

MASTER OF MUSIC

The Master of Music degree is offered in the School of Music with majors in church music, composition, conducting, music education, music history and literature, music theory, performance, collaborative piano, and piano pedagogy and performance.

The core of study for all Master of Music degrees is as follows:

Core Courses	9 sem. hrs.
MUS 5302	Analytical Techniques
MUS 5320	Research Method and Bibliography (Music Education majors will take MUS 5334 Introduction to Graduate Study in Music Education)
MUS 5321	The Middle Ages
or	
MUS 5322	The Renaissance
or	
MUS 5323	The Baroque Period
or	
MUS 5325	The Classic Period
or	
MUS 5326	The Romantic Period
or	
MUS 5328	The Twentieth Century

Major in Church Music

Students who were not church music majors in their undergraduate degree will be required to take MUS 3273 Worship in the Church, MUS 3274 Congregational Song, and MUS 5243 Church Music Ministry or do equivalent study as pre-requisites to the graduate courses.

Required Courses for all Church Music Majors

Core Courses		9
MUS 5240	Worship in the Church	2
MUS 5241	Congregational Song	2
MUS 5242	Seminar in Music Ministry	2
MUS 5244	History of American Church Music	
or		
MUS 5245	Turning Points in Church Music	
or		
MUS 5246	Comparative Liturgies	2
MUS 5247	Choral/Vocal Music Ministries in the Church	2
MUS 5037	Baylor Association of Church Musicians	
	(4 semesters)	

Concentration Courses

Option A: Thesis		sem. hrs.
MUS 4261	Choral Conducting	2
MUS 5V99	Thesis	3
Applied Music		4
Electives		<u>2</u>
Total Hours		30

After the completion of applied study, students are required to present a performance project (representative program of works appropriate for church in the student's performance medium) to the church music faculty.

Option B: Performance		sem. hrs.
Conducting (MUS 4260, 4261, or 4262)		2
Applied Major		7
MUS 5170	Graduate Recital	1
MUS 5141	Performance Document	<u>1</u>
Total Hours		30

Piano proficiency of level 4 required for vocal, instrumental, or organ emphasis, and level 7 for piano emphasis.

In the vocal and organ emphasis areas, the recital will consist of primarily sacred music; a collaborative and/or solo recital will be acceptable for a piano emphasis.

The document that accompanies the recital (MUS 5141) will be supervised by the church music faculty in cooperation with the appropriate applied faculty member(s).

Option C: Conducting		sem. hrs.
Conducting and choral literature*		6
MUS 5170	Graduate Recital	1
MUS 5141	Performance Document	1
Electives		<u>3</u>
Total Hours		30

*Conducting courses selected from MUS 4260, 4261, 4262, 5270 and 4337.

To be admitted to the program, the candidate must submit a video of conducting which will be evaluated by the conducting and church music faculties.

For the conducting project, the student will assemble a choir. In consultation with the church music faculty and the appropriate conducting faculty, the student will select repertoire that reflects music from a variety of styles and periods. Approximately six anthems will be prepared and presented. The repertoire will be prepared under the supervision of the church music and choral conducting faculties. The document, which will be related to the repertoire and/or the service, will be written under the supervision of the church music faculty.

Option D: Church Ministry		sem. hrs.
MUS 5244*	History of American Church Music or	
MUS 5245*	Turning Points in Church Music or	
MUS 5246*	Comparative Liturgies	2
MUS 5037	Baylor Association of Church Musicians (4 semesters)	
Applied		2
Conducting	(MUS 4260, 4261, 4262)	2
Electives		<u>3</u>

**The student will take the two courses not taken as part of the required courses for all Church Music majors.*

Total Hours	30
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Option E: Composition		sem. hrs.
Composition*		6
MUS 5170	Graduate Recital**	1
Conducting	(MUS 4260, 4261, 4262)	2
Electives		<u>2</u>
Total Hours		30

**Courses to be selected from 4203, 5207, 5208, or 5V89.*

***The recital may consist of a concert format, or a presentation of original compositions within a service.*

Major in Composition		sem. hrs.
Core Courses		9
MUS 4203	Electronic Studio	2
MUS 5207	Graduate Composition I	2
MUS 5208	Graduate Composition II	2
MUS 5209	Graduate Composition III	2
MUS 5328	The Twentieth Century	3
MUS 5355	Analysis Seminar	3
MUS 5V99	Thesis	3
Electives		<u>4</u>
Total Hours		30

Major in Conducting		sem. hrs.
Core Courses		9
MUS 4260	Orchestral Conducting	2
MUS 4261	Choral Conducting	2
MUS 4262	Band Conducting	2

MUS 5265	Orchestral Conducting Performance Practicum	
or		
MUS 5266	Choral Conducting Performance Practicum	
or		
MUS 5267	Band Conducting Performance Practicum	2
MUS 5270	Applied Conducting	4
MUS 4321	Symphonic Literature	
or		
MUS 5337	Choral Literature	
or		
MUS 4331	Band Literature	3
Electives		<u>6</u>
Total Hours		30
Major in Music Education	sem. hrs.	
Core Courses*		9
MUS 5330	Trends in Music Education	3
MUS 5332	Research in Music Education	3
MUS 5137	Graduate Seminar in Music Education	4
Electives**		11
Total Hours		30

**Music Education students will take MUS 5334 Introduction to Graduate Study in Music Education instead of MUS 5320 Research Methods and Bibliography.*

***Select from MUS 4260, 4261, 4262, 4321, 4326, 4331, 4342, 5247, 5319, 5333, 5337, EDC 5310, any graduate-level world music course, or other approved electives, including applied study.*

Major in Music History and Literature	sem. hrs.
Core Courses	9
Three additional Music History courses from those listed in the core requirements	9
MUS 5329	Seminar in Musicology
MUS 5V99	Thesis
Applied Music	3
Electives*	6
Enrolment in MUS 5010 (Academic Division Colloquium) is required for every term in residence.	
Total Hours	33

**The student is encouraged to include graduate-level theory and/or MUS 5319 among the supportive courses that will bring the total hours to a minimum of thirty-three. Piano proficiency of level V or two semesters of piano with a minimum grade of “B” is required.*

Major in Music Theory	sem. hrs.
Core Courses	9
MUS 5201	Pedagogy of Theory
MUS 5301	History of Music Theory
MUS 5328	The Twentieth Century
MUS 5355	Analysis Seminar (two semesters)
MUS 5V99	Thesis
Electives	<u>4</u>
Enrolment in MUS 5010 (Academic Division Colloquium) is required for every term in residence.	
Total Hours	30

Supportive courses in music literature, music theory, composition, or applied music to total a minimum of thirty hours. Piano proficiency of level V or two semesters of piano with a minimum grade of “B” is required.

Major in Performance (Offered in strings, woodwinds, brass, percussion, voice, piano, organ, harp)

	sem. hrs.
Core Courses	9
Applied Major	12
MUS 5170 Graduate Recital (two required, one sem. hr. each)	2
Supportive courses chosen from music literature, music theory, pedagogy of major area* or applied music**	<u>7</u>
Total Hours	30

**Instrumental students must take one of the following courses appropriate to their major performance area: MUS 4333, 4334, 4335 or 4336.*

***A maximum of four semester hours of applied music is permitted among the supportive courses.*

One of the recitals may be a lecture-recital, a performance with chamber ensemble, an accompaniment of a major performance, or a major opera role at the discretion of the student's graduate committee. The recitals will consist of repertoire learned while the student is in residence for the degree. The student must be enrolled for applied music during the term in which a recital is given. If the recitals are not given before the twelve hours of applied music concentration are completed, the student must continue with applied study.

Major in Collaborative Piano

	sem. hrs.
Core Courses	9
MUS 5252, 5253 Seminar in Vocal Collaboration I, II	4
MUS 5254, 5255 Seminar in Instrumental Collaboration I, II	4
MUS 5170 Graduate Recital (two recitals equally representing vocal and instrumental repertoire)	2
MUS 51K5 Collaborative Piano (one sem. hr. each semester)*	4
MUS 51K1 Applied Piano (one sem. hr. each semester)*	4
Electives**	<u>3</u>
Total Hours	30

**Collaborative Piano (collaborative repertoire/private coaching) will alternate, one hour per week with Applied Piano.*

***Select from MUS 4325, 4327, 4329, 4334, 4335, 4336, or 5V89.*

Major in Piano Pedagogy and Performance

	sem. hrs.
Core Courses	9
MUS 4315, 4316 Advanced Piano Pedagogy and Practicum I, II	6
MUS 5170 Graduate Recital	1
MUS 52K1 Applied Piano	8
MUS 5V89 Special Research Problems	2
Electives*	<u>4</u>
Total Hours	30

**Select from MUS 4322, 4324, 4V13, 5114, 5115, 5201, 5252, 5253, 5254, 5255, Organ, Harpsichord, or MIDI.*

ADVANCED PERFORMERS CERTIFICATE PROGRAM

(Piano or Organ)

The Advanced Performers Certificate is intended for students who demonstrate the potential to establish a career as a performing artist. Accordingly, the goals of this non-degree program are more narrowly focused than traditional graduate performance degrees. The requirements for the Advanced Performers Certificate Program are designed for students who have demonstrated the ability to perform advanced repertoire and whose artistic communication and technical mastery of major repertoire for the instrument are unusually strong.

It is expected that the student applying for admission to the program will have completed a Bachelor of Music degree or its equivalent from a recognized institution. Those applying for admission to the Advanced Performers Certificate Program must follow the procedures and regulations of other students applying for acceptance to the Graduate Division of the School of Music. (GRE not required)

Admission

Upon recommendation of the faculty of the Keyboard Division, a student may be accepted to the Advanced Performers Certificate Program. Admission will require a live audition before a committee which will include at least four members of the Keyboard Division faculty appointed by the Director of Keyboard Studies and the Graduate Program Director in Music. The option of a video performance may be approved when distance to the audition would be a hardship. When the audition is by video, the student must present a live audition before a designated faculty committee during the first semester of residence in order to be fully accepted into the program.

The audition will require sixty minutes of solo repertoire representing the 18th, 19th, and 20th centuries and will include at least two major works and two virtuoso etudes from the literature. The audition committee may choose from the repertoire prepared.

Students who have been admitted to the Advanced Performers Certificate Program will be advised on course content by the Graduate Program Director in Music in consultation with the major teacher and the Director of Keyboard Studies.

Assessment of Progress in the Program

Students will be required to maintain a 3.0 GPA to remain in the program. Recitals must receive a grade of A- to be passed. A committee consisting of four Keyboard Division faculty, one faculty member from another applied division, and the Graduate Program Director in Music will grade the required recitals.

A probationary semester will be granted when a student's GPA falls below the required GPA. Students placed on probationary status will be evaluated yearly by the Dean of the School of Music, the major teacher involved, and any members of the Keyboard Division faculty assigned by the Dean.

Residency Requirements

All course requirements for the Advanced Performers Certificate Program must be completed in residence at Baylor University. The student may complete the credit requirements in four regular Fall-Spring semesters or may distribute the semester hours over four regular Fall-Spring semesters and two summer terms. The minimum time allowed to complete the requirements is two years and the maximum is three years.

Language Requirement

All international students whose first language is not English must achieve a TOEFL score of 550 (213 computer based or 80 Internet based) to be admitted to the Advanced Performers Certificate Program.

Course Requirements	32 sem. hrs.
Applied Major	20
Chamber Music* Includes two full-length collaborative recitals	4
Music Courses**	6
MUS 5170 Two solo recitals	2

*Select from MUS 5130, 5131, 5132, 5133, 5136.

**Select literature, pedagogy, music history or music theory courses appropriate to the area and for which the student is qualified.

Additional courses not included in the program curriculum may be added upon consultation with the Graduate Program Director in Music, the major teacher, and the Director of Keyboard Studies. Added courses will not be counted toward the requirement.

JOINT MASTER OF DIVINITY/ MASTER OF MUSIC

The Master of Divinity degree is designed primarily for students preparing for pastoral ministry, though it also provides preparation for other specialized ministries. The Master of Music degree in church music is a professional graduate degree for those who plan to serve in the music ministry. The degree is designed to develop proficiency in performance, a knowledge of church music (including music history, music theory and conducting), and an understanding of the theological context of church music and the administration of a church music program.

Admission

Students seeking admission to the joint degree program will be required to fulfill admission requirements to the George W. Truett Theological Seminary, the Graduate School, and the School of Music. Students must apply and be admitted to each of the programs. Upon commencing seminary studies, the student may enroll in courses in both programs.

Requirements

Students will complete fifty-one semester hours of the theological education core, ten hours of music concentration courses, twelve hours of mentoring, four hours of elective, and sixteen hours of Master of Music courses to satisfy requirements for the Master of Divinity. To complete requirements for the Master of Music degree, an additional fifteen semester hours will be taken from the Church Music degree program in one of the following five options: Thesis, Performance, Conducting, Church Ministry, or Composition. Since both degrees are awarded simultaneously, all requirements in both schools must be completed in order to receive either degree. Students who were not church music majors in their undergraduate degree will be required to take MUS 3273 Worship in the Church or THEO 7316 Christian Worship, MUS 3274 Congregational Song, and MUS 5243 Church Music Ministry or do equivalent study as prerequisites to the graduate courses.

I. Theological Education Core Courses	51 sem. hrs.
Introductory Courses*	

THEO 7340	Introduction to Scripture
THEO 7343	Introduction to Christian History
THEO 7345	Introduction to Christian Theology

Christian Scriptures

THEO 7370	Christian Scriptures 1
THEO 7372	Christian Scriptures 2
THEO 7371	Christian Scriptures 3
THEO 7373	Christian Scriptures 4

Christian Texts and Traditions

- THEO 7360 Christian Texts and Traditions 1
- THEO 7361 Christian Texts and Traditions 2
- THEO 7362 Christian Texts and Traditions 3
- MSSN 7385 Christian World Mission 3
- THEO 7396 The Baptist Identity 3

Leadership/Administration

- LEAD 7301 Leadership for Ministry 3

Preaching and Worship

- PRCH 7316 Preaching 1
- THEO 7316 Christian Worship
- Christian Ministry
- PAST 7331 The Christian Ministry
- PAST 7033 Clinical Pastoral Orientation
- Capstone
- THEO 7388 Theological Capstone

II. Music Concentration Courses 10 sem. hrs.

Required Courses

- THEO 7290 Worship in the Church
- THEO 7291 Congregational Song
- THEO 7292 Seminar in Music Ministry
- THEO 7293 Choral/Vocal Music Ministries in the Church
- Select one course from the following:
- THEO 7294 History of American Church Music
- THEO 7295 Turning Points in Church Music
- THEO 7296 Comparative Liturgies

III. Mentoring in Ministry 12 sem. hrs.

IV. Theology, Missions, Leadership or Pastoral Studies Elective 4 sem. hrs.

V. Master of Music Courses 16 sem. hrs.

These courses are credited toward the Master of Divinity degree upon the successful completion of the Master of Music degree.

- Core Courses 9 sem hrs.
- Electives 7 sem hrs.
- MUS 5037 Baylor Association of Church Musicians (4 semesters)
- Ensemble (4 semesters)

VI. Covenant Group – six semesters

VII. Satisfactory completion of 200 Lifelong Learning Units.

Total 93 sem. hrs.

VIII. Ten hours of Master of Divinity credits are accepted toward the Master of Music degree upon the successful completion of the Master of Divinity degree.

IX. The Master of Music degree requires an additional fifteen hours of Music School courses selected from one of the five options below

- | Option A: Thesis | sem. hrs. |
|----------------------------|------------------|
| MUS 4261 Choral Conducting | 2 |
| MUS 5V99 Thesis | 3 |

Applied	4
Electives	6

After the completion of applied study, students are required to present a performance project (representative program of works appropriate for church in the student's performance medium) to the church music faculty.

Option B: Performance		sem. hrs.
Conducting (4260, 4261, or 4262)		2
Applied		8
MUS 5170	Graduate Recital	1
MUS 5141	Performance Document	1
Electives		3

Piano proficiency of level 4 is required for vocal, instrumental, and organ emphasis areas, level 7 for piano emphasis. In the vocal and organ emphasis areas the recital will consist primarily of sacred music; a collaborative and/or solo recital will be acceptable for a piano emphasis. The document that accompanies the recital (MUS 5141) will be supervised by the church music faculty in cooperation with the appropriate applied faculty member(s).

Option C: Conducting		sem. hrs.
Conducting*		6
MUS 4337	Choral Literature	3
MUS 5170	Graduate Recital	1
MUS 5141	Performance Document	1
Electives		4

**Courses to be selected from MUS 4260, 4261, 4262, and 5270.*

To be admitted to the conducting option the candidate must submit a video of conducting which will be evaluated by the conducting and church music faculties. For the conducting project (MUS 5170) the student will assemble a choir. In consultation with the church music faculty and appropriate conducting faculty, the student will select repertoire that reflects music from a variety of styles and periods. Approximately six anthems will be prepared under the supervision of the church music and choral conducting faculties. The document (MUS 5141), which will be related to the repertoire, will be written under the supervision of the church music faculty.

Option D: Church Ministry		sem. hrs.
MUS 5244*	History of American Church Music	
MUS 5245*	Turning Points in Church Music	
MUS 5246*	Comparative Liturgies	4
Applied		2
Conducting (4260, 4261, or 4262)		2
Electives		7

**The student will take the two courses not taken as THEO 7294, 7295, or 7296.*

Option E: Composition		sem. hrs.
Composition*		6
MUS 5170	Recital	1
Conducting (4260, 4261, or 4262)		2
Electives		6

**Courses to be selected from MUS 4203, 5207, 5208, 5209 or 5V89.*

Total	108 sem. hrs.
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Louise Herrington School of NURSING

Interim Graduate Program Director: Mary Brucker

The Louise Herrington School of Nursing offers the Master of Science in Nursing and Doctor of Nursing Practice degrees. The Graduate Studies Program is ranked nationally by *US News & World Report* for its academic reputation. The Graduate Studies Program offers part or full-time Master degree study in one of two advanced practice majors: Family Nurse Practitioner and Neonatal Nurse Practitioner. A Doctor of Nursing Practice degree is offered in Nurse-Midwifery.

Admission Requirements

For admission to the nursing graduate studies program, candidates must meet the general requirements set forth by the Graduate School and the Louise Herrington School of Nursing:

1. Bachelor's degree in any field
2. Cumulative undergraduate GPA of 3.0 or higher overall and in nursing
3. Unencumbered License to practice as a registered nurse in the United States or a U.S. territory
4. One (1) year of full time experience as a practicing professional nurse (additional clinical experience may be required prior to taking specialty courses.)
5. Acceptable score on the Graduate Record Examination (GRE). Master degree applicants may take the Miller Analogies Test.
6. Acceptable writing sample
7. Completion of an undergraduate statistics course
8. Three letters of recommendation
9. Submission of resume or curriculum vita
10. Completion of application
11. Personal interview

There is no foreign language requirement. Applications are considered on an individual basis after the School of Nursing receives all admission materials. The preferred start date is the summer semester. Applicants should plan to complete all admission materials on or before April 1 for summer admission and June 1 for fall admission. These deadlines are for priority consideration for available financial assistance.

Requirements

The minimum passing grade for all graduate nursing courses is a "B". Each student in the Graduate Program in Nursing must achieve a grade of "B" or better in *ALL* courses, clinical and/or didactic, in order to advance in the program. Students may repeat a course one time. Graduate students must maintain a "B" (3.0) overall grade point average (GPA). Any students whose overall GPA falls below a "B" average during any semester will be placed on probation for the next nine (9) semester hours of course work. (Please refer to sections on Grading System and Probation).

Student Financial Aid

Students entering or enrolled in the School of Nursing may apply for financial assistance through the Office of Academic Scholarships and Financial Aid. Financial aid information

and applications are to be obtained from:

Baylor University
Office of Academic Scholarships and Financial Aid
One Bear Place #97028
Waco, TX 76798-7028
254-710-2611 or
1-800-Baylor-U

Philosophy

The faculty of the Louise Herrington School of Nursing believes in the philosophy, the Christian mission, and the goals of Baylor University and, in harmony with these, provides an environment in which the student may grow in professional competence and Christian spirit. The faculty believes nursing is a service to humanity and is motivated by love for God and society. A commitment to this belief provides a foundation for teaching and learning in the School of Nursing. The faculty believes the aim of undergraduate and graduate education in nursing is to provide an opportunity for personal and professional development. Professional education includes a study of the arts, sciences and humanities and is best achieved in a Christian setting beginning at the baccalaureate level. The faculty believes that baccalaureate education in nursing is the basis for professional practice as a nurse generalist and should be equally accessible to generic students and to other students who have previous formal educational experience in nursing. The nurse generalist has the knowledge, skills, and competencies necessary for assuming the responsibility of entry-level professional nursing positions and for graduate study in nursing. The faculty believes specialization occurs at the master's level of education in the refinement of existing skills, expansion of knowledge, and development of competencies in a specific area of nursing practice.

The faculty believes that individuals learn in a variety of ways. Learning is a life-long process built upon previous knowledge and experience. Learning occurs in a variety of situations and settings and should become self-directed over time. Knowledge acquisition, critical inquiry, reflection and decision-making prepare learners to respond to issues that confront them as professionals.

The faculty believes that effective teaching employs a variety of strategies to foster independence, critical thinking, and self discovery. The teacher as a facilitator strives to be innovative and flexible in planning, implementing, and evaluating educational experiences consistent with curriculum goals and objectives. The teacher as a scholar participates in endeavors to acquire, create, and use new knowledge. As members of the academic community, the faculty recognizes that its professional role includes formal teaching, scholarly pursuits, and community service.

The faculty believes the individual, in constant interaction with the changing environment, responds as a unified whole to life situations. In addition, the individual impacts the environment and his/her own welfare through a personal relationship with the Creator. As an integral part of a family, group or community the individual affects, and is affected by both culture and society.

The faculty believes that health is a basic human condition which is uniquely perceived by individuals and groups. Health is a dynamic state of human functioning wherein clients exist with varying degrees of wellness and illness. The higher the level of human need fulfillment, the more optimal the state of wellness for the client. Individuals have the right to pursue that level of health perceived by them to be optimal, taking into account their social and cultural definitions of health. The level of health that individuals can attain is influenced by the levels of health of families and communities of which they are a part and with whom they coexist.

The faculty believes that professional nursing is the caring for individuals, families, groups, communities, and society through the diagnosis and treatment of the responses to actual or potential threats to health and through facilitating human need fulfillment. Professional nursing is a practice discipline which has evolved from a rich, unique heritage. It encompasses the arts, sciences, ethics, and politics. Nursing has a dynamic body of knowledge based on nursing research and on the application of theories and concepts from the physical and behavioral sciences and the humanities. Professional nursing utilizes the nursing process in a caring, interactive manner to promote optimal wellness. Through a variety of roles, professional nursing contributes to the improvement of health care services to society.

Student Life, Services, and Facilities

The regents, administration, and faculty of Baylor University believe that students should have comprehensive and varied opportunities for physical, intellectual, social, cultural, religious and emotional development. To this end a variety of services, activities and facilities is available to students.

Baptist Student Ministries

The Baptist Student Ministries Office (BSM) provides a broad base of religious and social activities for students on the Dallas campus. Activities include Bible studies, local mission opportunities, retreats, and domestic and international mission trips. The BSM is committed to providing a well-balanced program of ministry opportunities for all students on the Dallas campus. Recreational activities are planned for all students around cultural and sports events in the metroplex area. Medical missions experiences are also provided for interested students.

Professional Organizations

The School sponsors the Eta Gamma chapter of Sigma Theta Tau, the national nursing honor society. Qualified students are considered for membership in Sigma Theta Tau after completion of at least one-half of the requirements in the major.

Health Services

Due to the health risks associated with being in the health care profession, it is required that ALL students in the School of Nursing have their own personal health insurance coverage. The student is responsible for health care costs incurred while a student at Baylor. Students do have access to the Baylor University Medical Center Employee Health Center for minor health problems. The students are responsible for prescribed medications, tests, and other treatment costs.

Tom Landry Center

Located on the campus of Baylor University Medical Center, the Landry Center provides a comprehensive fitness facility for students. Students are given complimentary membership which entitles them to use this facility free of charge during certain regulated hours of operation.

Mabel Peters Caruth Learning Resource Center

Located on the Dallas Campus, the Learning Resource Center houses over 5,000 volumes and receives more than 200 nursing journal titles in print or electronic format, with online access to all of the Waco campus electronic resources. The LRC resources include online citation and full text databases, reference material, reserves, a photocopier, audiovisual software and hardware, computer software and hardware, the computer lab, student e-mail and Internet access, and vertical files. The LRC services include basic AV production and interlibrary loan. The Learning Resource Center participates in the TexShare program which gives access to materials in member TexShare libraries.

Continuation In The Major Following Interruption for Non-Academic Reasons

Former students in good standing who have withdrawn or taken a semester off due to non-academic reasons (health, pregnancy, family emergencies, financial, etc.) may be eligible to return to the school of nursing the following semester. The student will need to meet with the Graduate Program Director to develop a degree plan for continuation in the major.

Psychiatric, Chemical Dependency Policy

The School of Nursing enforces a “drug free” policy. Students exhibiting behavior which suggests impairment related to drugs and/or alcohol will be subject to a mandatory psychiatric and chemical dependence assessment. Such behavior may be observed in clinical, in campus lab, or in classrooms. Questionable behaviors that suggest impairment related to drugs and/or alcohol in any of the professional activities related to education (class, lab, clinical) put clients at risk for unsafe care. Assistance will be provided to students seeking help for psychiatric or chemical dependency problems. A student who tests positive for drugs or alcohol must participate in a recognized chemical dependence program in order to continue in the School of Nursing. Continuance in or re-admission to nursing courses will be evaluated on an individual basis, but must include monitoring of satisfactory progress in the rehabilitation program.

Basic Cardiac Life Support Certification

Students must be certified/recertified in the American Heart Association Basic Life Support Course C (BCLS) prior to the first day of the clinical class in each semester. No student will be allowed in the clinical setting until fulfillment of this requirement is documented.

Immunizations

Prior to beginning the clinical rotations each semester, all students must provide written documentation of current TB test, hepatitis B series, and up-to-date Tdap, measles, mumps, rubella and varicella immunizations. No student will be allowed in the clinical setting until fulfillment of this requirement is documented.

Professional Liability Insurance

Each year the Louise Herrington School of Nursing makes arrangements with an insurance company to provide professional liability insurance for nursing students. Questions concerning coverage may be addressed to the insurance agency from which Baylor obtains the insurance.

Program Study Options

I. Master of Science in Nursing

This option awards the Master of Science in Nursing (MSN) degree with a major in Family Nurse Practitioner or Neonatal Nurse Practitioner. The curriculum ranges from 35-39 semester hours in length depending upon the major. Graduates are eligible to sit for national certification examinations in their appropriate nurse practitioner specialty.

II. Post-master’s Nurse Practitioner Study

This option allows nurses who have completed an advanced nursing degree (master’s or doctorate) to prepare for the nurse practitioner role. Students must have a graduate nursing degree. The curriculum averages twenty-six to thirty semester hours in length; however, transcripts of previous graduate nursing course work are evaluated on an individual basis to determine program placement. A degree plan that reflects current educational standards is developed for each student by the program faculty.

III. Advanced Placement for Certificate Educated Nurse Practitioners

This option is designed for certificate-educated nurse practitioners who are interested in acquiring a graduate nursing degree. Students must have successfully completed a certificate nurse practitioner program and hold current certification as a nurse practitioner. The curriculum averages 31-34 semester hours in length; however, students are evaluated on an individual basis to determine an appropriate degree plan that reflects current educational standards. Advanced standing may be given for course work previously taken during the student's certificate program.

IV. Doctor of Nursing Practice

This option awards the Doctor of Nursing Practice (DNP) degree with a major in Nurse-Midwifery. The postgraduate curriculum is seventy-five hours in length. Graduates are eligible to sit for a national certification examination for mid-wifery. This program has been preaccredited by the Accreditation Commission for Midwifery Education at 8403 Colesville Road, Silver Spring, MD 20910, (240) 485-1800.

Program Objectives

All graduate students are expected to attain program objectives. These objectives are appropriate for all tracks. The program objectives are:

- 1. Identify researchable nursing problems and participate in nursing research to improve practice and meet professional standards.
- 2. Apply innovative models that have been developed through synthesis of selected theories and research to nursing practice.
- 3. Demonstrate leadership in devising strategies to achieve standards of excellence and contribute to the advancement of the nursing profession.
- 4. Demonstrate working knowledge of healthcare delivery systems and the public policy that propels it.
- 5. Synthesize theories for problem-solving in the clinical setting.
- 6. Analyze and address issues in health care delivery utilizing ethical theories.
- 7. Plan and manage the health care financing of holistic care for individuals and groups.
- 8. Implement the nursing role within the interdisciplinary health team through collaboration and consultation with other providers.
- 9. Demonstrate advanced nursing skills for the delivery of holistic care to individuals and groups.

Core Courses – Required in all majors

NUR 5211	Servant Leadership and Advanced Practice Nursing
NUR 5212	Advanced Practice Nursing Roles
NUR 5313	Health Care Systems, Policy and Management
NUR 5414	Scientific Inquiry for Advanced Nursing Practice

SPECIALTY TRACKS

FAMILY NURSE PRACTITIONER (FNP)

The Family Nurse Practitioner track is a 39 semester hour curriculum to prepare registered nurses to deliver primary health care to clients of all ages focusing on underserved people from a variety of cultures. The curriculum is designed for current and future missionary nurses and others interested in underserved populations. Emphasis is placed on health promotion, disease prevention, management of acute and chronic illnesses, and advanced skills. Students have the option of completing part of their required clinical hours at an international site with missionary nurse practitioners, doctors, and faculty supervision.

The program of study conforms to educational guidelines from the state of Texas and the National Organization of Nurse Practitioner Faculties (NONPF). Graduates of the program are eligible to sit for national Family Nurse Practitioner certification examinations offered by the American Nurses Credentialing Center (ANCC) and the American Academy of Nurse Practitioners (AANP).

Additional admission requirement for the Family Nurse Practitioner major

Candidates for the Family Nurse Practitioner major must have a minimum of one year experience as a professional nurse and basic physical assessment course within one year prior to taking the graduate assessment course (NUR 5452).

Degree Requirements

The traditional master's degree curriculum for the Family Nurse Practitioner curriculum is thirty-nine semester hours. A post-master's certificate consisting of 30 semester hours is also available. Both study options can be completed in two calendar years. The curriculum provides didactic (theory) and clinical components organized within the framework set forth by the American Association of Colleges of Nursing's *The Essentials of Master's Education for Advanced Practice Nursing*. *Traditional MSN students will complete 11 hours of required core courses that are taught in conjunction with the other graduate nursing majors. The remaining 28 hours consist of the Family Nurse Practitioner specialty courses.*

Required Specialty Courses

NUR 5350	Advanced Human Pathophysiology for Nurse Practitioner
NUR 5351	Advanced Pharmacology for Nurse Practitioners
NUR 5355	Family Health Management I
NUR 5258	Advanced Family Practice I
NUR 5356	Family Health Care Management II
NUR 5259	Advanced Family Practice II
NUR 5V49	Health Care and Missions
NUR 5452	Advanced Health Assessment/Promotion/Disease Prevention
NUR 5657	Family Nurse Practitioner Residency

Sample Curriculum Plan

Year 1: Fall Semester	9 hrs.
NUR 5313 Health Care Systems, Policy and Management	
NUR 5350 Advanced Human Pathophysiology	
NUR 5351 Advanced Pharmacology	
Year 1: Spring Semester	8 hrs.
NUR 5414 Scientific Inquiry for Advanced Practice Nursing	
NUR 5452 Advanced Health Assessment/Promotion/Disease Prevention	
Year 2: Summer Semester	7 hrs.
NUR 5212 Advanced Practice Nursing Roles	
NUR 5355 Family Health Care Management I	
NUR 5258 Advanced Family Practice I	

Year 2: Fall Semester 7 hrs.
NUR 5211 Servant Leadership and Advanced Nursing Practice
NUR 5356 Family Health Care Management II
NUR 5259 Advanced Family Practice II

Year 2: Spring Semester 8 hrs.
NUR 5657 Family Nurse Practitioner Residency
NUR 5V49 Health Care and Missions

NEONATAL NURSE PRACTITIONER (NNP)

The Neonatal Nurse Practitioner track is a graduate nursing curriculum designed to prepare experienced registered nurses for advanced practice in neonatal nursing. The curriculum emphasizes advanced nursing care of newborns and infants from birth through the first two years of life. The spectrum of health from promotion of wellness to management of acute and chronic illness in a variety of settings is incorporated into the program. The program includes a clinical experience designed to provide students with hands-on, real-life experience as an advanced practice neonatal nurse.

Students will gain in-depth knowledge of neonatal nursing, research utilization, critical thinking, diagnostic reasoning, patient management, program planning, and systems management. Technical skills related to neonatal intensive care such as intubation, umbilical catheterization, insertion of percutaneous central lines, lumbar puncture, suprapubic bladder aspiration, needle aspiration of the chest, and chest thoracotomy are also taught. Special emphasis is placed on managing a caseload of neonatal/infant patients and their families in conjunction with neonatologists and other members of the health care team.

The program of study conforms to educational guidelines from the State of Texas, the National Association of Neonatal Nurses (NANN), and the National Organization of Nurse Practitioner Faculties (NONPF). Graduates of the program will be eligible to sit for national Neonatal Nurse Practitioner certification examination offered by the national Certification Corporation for the Obstetric, Gynecologic and Neonatal Nursing Specialties (NCC).

Additional admission requirement for the Neonatal Nurse Practitioner major

Candidates for the Neonatal Nurse Practitioner major must have a minimum of one year experience as a professional nurse.

Degree Requirements

The traditional Master’s degree curriculum for the Neonatal Nurse Practitioner curriculum is 37 semester hours. A post-master’s certificate consisting of 26 semester hours is also available. Both study options can be completed in two calendar years. The curriculum provides didactic (theory) and clinical components organized within the framework set forth by the American Association of Colleges of Nursing’s *The Essentials of Master’s Education for Advanced Practice Nursing*. *Traditional MSN students will complete 11 hours of required core courses that are taught in conjunction with the other graduate nursing majors. The remaining 26 hours consist of the advanced neonatal nursing core courses and specialty courses.*

Required Specialty Courses

- NUR 5360 Developmental Physiology of the Fetus/Newborn
- NUR 5361 Advanced Pharmacotherapeutics for Newborns/Infants
- NUR 5262 Advanced Assessment & Diagnostics of the Newborn/Infant
- NUR 5163 Advanced Newborn/Infant Assessment & Diagnostic Practicum
- NUR 5364 Pathophysiology of Newborn/Infant
- NUR 5365 Advanced Neonatal Nursing Management I: High-Risk

NUR 5266	Advanced Neonatal Nursing Practicum I
NUR 5367	Advanced Neonatal Nursing Management II: Acute/Chronically III Newborn/Infant
NUR 5363	Advanced Neonatal Nursing Practicum II
NUR 5369	Advanced Neonatal Nursing Practicum III

Sample Curriculum Plan

Year 1: Fall Semester 9 hrs.

- NUR 5360 Developmental Physiology of the Fetus/Newborn
- NUR 5364 Pathophysiology of the Newborn/Infant
- NUR 5262 Advanced Assessment & Diagnostics of the Newborn/Infant
- NUR 5163 Advanced Assessment & Diagnostics Practicum

Year 1: Spring Semester 12 hrs.

- NUR 5414 Scientific Inquiry for Advanced Practice Nursing
- NUR 5361 Advanced Newborn/Infant Pharmacotherapeutics
- NUR 5365 Advanced Neonatal Nursing Management I: High Risk
- NUR 5266 Advanced Neonatal Nursing Practicum I

Year 2: Summer Semester 8 hrs.

- NUR 5212 Advanced Practice Nursing Roles
- NUR 5367 Advanced Neonatal Nursing Management II: Acute/Chronic
- NUR 5363 Advanced Neonatal Nursing Practicum II

Year 2: Fall Semester 8 hrs.

- NUR 5211 Servant Leadership and Advanced Nursing Practice
- NUR 5313 Health Care Systems, Policy and Management
- NUR 5369 Advanced Neonatal Nursing Practicum III/Residency

NURSE-MIDWIFERY (NM)

The Nurse-Midwifery Doctor of Nursing Practice program combines academic preparation with clinical skills for the independent management of health care of women and newborns. The successful completion of this 8 semester, 75 credit degree plan from the bachelor to the DNP degree qualifies the individual to become a nurse-midwife with additional competencies associated with the DNP degree. The primary goal of the Nurse-Midwifery Doctor of Nursing Practice Degree (NM/DNP) is to prepare scholarly, clinically competent nurse-midwives educated to meet the primary care needs of essentially healthy women across the life span, as well as providing care for normal newborns. The LHSON also is committed to increasing availability of nurse-midwives to provide servant leadership in reducing infant mortality and morbidity among underserved populations. The School of Nursing has a goal to educate providers to care for vulnerable populations of women and families both here in the United States and globally, particularly through the use of life as a stewardship and work as a vocation.

Various degree options are available for individuals who already have a masters' degree, are nurse practitioners who desire nurse-midwifery education, or are nurse-midwives and wish to obtain the DNP degree. Full-time and part-time degree plans are available.

Required Specialty Courses

Advanced Nursing Practice Core:

NUR 5217	Budgeting & Healthcare Finance for Nursing Leadership
NUR 5350	Advanced Human Pathophysiology
NUR 5351	Advanced Pharmacology
NUR 5452	Advanced Health Assessment/Promotion/Disease Prevention
NUR 5V49	Health Care and Missions
NUR 5255	Nurse-Midwifery I: Primary Care for Advanced Practice Nurses
NUR 5158	Nurse-Midwifery I: Primary Care for Advanced Practice Nurses Practicum
NUR 6371	Nursing Informatics
NUR 6375	Scientific Inquiry II

Nurse-Midwifery Specialty Courses:

NUR 6370	Clinical Genetics
NUR 5141	Professional Issues for NMs
NUR 6372	Clinical Ethics
NUR 6373	Clinical Epidemiology
NUR 6374	Issues in Health Care and Practice
NUR 5V42	NM II: Women's Health
NUR 5V43	NM II: Women's Health Practicum
NUR 5344	NM III: The Childbearing Family
NUR 5345	NM III: The Childbearing Family Practicum
NUR 5246	NM IV: High Risk Family
NUR 5247	NMIV: High Risk Family Practicum
NUR 6V76	Advanced Practice Nursing Residency
NUR 66C7	Capstone Project

Sample Curriculum Plan

Year 1: Fall Semester

NUR 5313	Health Care Systems, Policy and Management
NUR 5350	Advanced Human Pathophysiology
NUR 5351	Advanced Pharmacology

Year 1: Spring Semester

NUR 5211	Servant Leadership and Advanced Practice Nursing
NUR 5414	Scientific Inquiry for Advanced Practice Nursing
NUR 5452	Advanced Health Assessment/Promotion/Disease Prevention

Year 2: Summer Semester

NUR 5141	Professional Issues for Nurse-Midwives
NUR 5255	Nurse-Midwifery I: Primary Care for Advanced Practice Nurses
NUR 5158	N-M I: Primary Care for Advanced Practice Nurses Practicum
NUR 6370	Clinical Genetics

Year 2: Fall Semester

NUR 5V42	Nurse-Midwifery II: Women's Health
NUR 5V43	Nurse-Midwifery II: Women's Health Practicum

NUR 6371	Nursing Informatics
NUR 6373	Clinical Epidemiology

Year 2: Spring Semester

NUR 5344	Nurse-Midwifery III: Care of the Childbearing Family
NUR 5345	Nurse-Midwifery III: Care of the Childbearing Family Practicum
NUR 5V49	Health Care and Missions
NUR 6375	Scientific Inquiry II

Year 3: Summer Semester

NUR 5212	Advanced Practice Nursing Roles
NUR 5217	Budgeting and Healthcare Finance for Nursing Leadership
NUR 5246	Nurse-Midwifery IV: High Risk Family
NUR 5247	Nurse-Midwifery IV: High Risk Family Practicum

Year 3: Fall Semester

NUR 6372	Clinical Ethics
NUR 6374	Issues in Health Care and Practice
NUR 6V76	Advanced Practice Nursing Residency

Year 3: Spring Semester

NUR 66C7	Capstone Project
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PHILOSOPHY

Chairperson: Michael D. Beaty

Graduate Program Director: Robert C. Roberts

Admission

The department of philosophy offers graduate work leading to the Master of Arts and the Doctor of Philosophy degrees. For admission to its graduate program, the department requires (1) a bachelor's degree from an accredited institution; (2) at least fifteen hours of course work in philosophy; (3) a Graduate Record Examination General Test (GRE) score predictive of success in this program; (4) a brief writing sample; and (5) three letters of recommendation. The faculty of the department may modify these requirements in exceptional circumstances. We currently do not admit students for terminal M.A. studies.

MASTER OF ARTS

Required Course Work:

33 sem. hrs.

- A. 30 hours in Philosophy. At least eighteen of the required hours must be at the 5000 level.
- B. Either PHI 5330 Readings in Ancient and Medieval Philosophy or PHI 5331 Readings in Modern and Contemporary Philosophy.

DOCTOR OF PHILOSOPHY

Required Course Work

72 sem. hrs.

PHI 5320	Special Topics in Philosophy--(section .06 Logic)
PHI 4319	Philosophical Writing and Research
PHI 5350	Workshop in Teaching Philosophy

PHI 5330	Readings in Ancient and Medieval Philosophy
PHI 5331	Readings in Modern and Contemporary Philosophy
PHI 6V10	Prospectus Research (1-9 hours)
PHI 6V99	Dissertation (9 hours)

Contemporary Issues in Philosophy (9 hours from the following):

PHI 4310	Philosophy of Science
PHI 4311	Epistemology
PHI 4318	Philosophy of Law
PHI 4320	The Philosophy of Religion
PHI 4321	Metaphysics
PHI 4361	Social Philosophy
PHI 5360	Topics in Contemporary Ethical Theory
PHI 5361	Contemporary Philosophy of Religion
PHI 5362	Issues in Contemporary Philosophy of Science
PHI 5363	Modern Political Thought
PHI 5365	Philosophy of Language
PHI 5310	Value Theory
PHI 5316	Contemporary Philosophical Problems

History of Philosophy (6 hours from the following):

PHI 4323	Classic Works in Aesthetics
PHI 4331	Latin American Philosophy
PHI 4340	East Asian Philosophy
PHI 4341	Contemporary Continental Philosophy
PHI 4342	Contemporary American Philosophy
PHI 5311	Readings from the Philosophers (may be repeated with different topics)
PHI 5312	Topics in Classical Philosophy
PHI 5314	Topics in Modern Philosophy
PHI 5343	Classical Political Thought
32 hours	Electives chosen with the approval of the Graduate Program Director to cover a broad range of contemporary philosophical issues and historical areas and to ensure a development of at least one area of specialization (AOS) and an area of competency (AOC).

Philosophy Preparation

1. A written examination in classical texts of ancient philosophy and medieval philosophy.
2. A written examination in classical texts of modern and twentieth century philosophy.
3. A written dissertation prospectus (15-30 pages) and a bibliography.
4. An oral dissertation prospectus defense.
5. A dissertation (150-300 pages) and a bibliography.
6. An oral examination over the dissertation.

Teaching Preparation

1. Six to twelve hours of assisting in introductory courses.
2. PHI 5350 Workshop in Teaching Philosophy.
3. Six to twelve hours of teaching as an instructor of record.

Students who enter the Ph.D. program with an M.A. in philosophy or a closely related discipline will find the 32 elective hours reduced to take appropriate account of their previous graduate work. The Graduate Program Director will determine the exact number of hours that will transfer but the maximum number will be 18 semester hours.

Requirements for the Graduate Minor in Philosophy

To qualify for a graduate minor in philosophy, students must complete twelve semester hours at the 4000 or 5000 level. These courses are selected in consultation with the Graduate Program Director in their own department as well as the approval of the Graduate Program Director in the philosophy department in order to ensure a broad coverage of contemporary issues and historical time periods.

For further description of the department's graduate program, interested parties may consult the more extensive description of the program at the department's internet site: <http://www.baylor.edu/Philosophy/>.

PHYSICS

Chairperson: Gregory A. Benesh

Graduate Program Director: Walter M. Wilcox

The department offers the Master of Arts, Master of Science, and Doctor of Philosophy degrees in physics. For admission to major graduate study in physics, students must satisfy the following requirements:

1. Thirty-two semester hours of undergraduate physics, including six semester hours of 4000-level courses in physics.
2. Eighteen semester hours in undergraduate mathematics, including differential equations.
3. One semester of undergraduate chemistry.
4. Acceptable scores on the Graduate Record Examination General Test (GRE).

The Graduate Record Examination Subject Test in physics is optional. For admission to minor graduate study in physics, students must have completed a minimum of nineteen semester hours in undergraduate physics and must satisfy the prerequisites for the courses which are to be counted for graduate credit.

MASTER OF ARTS AND MASTER OF SCIENCE

Requirements for the Master of Arts (M.A.) degree are thirty-six semester hours, including at least eighteen hours of 5000 level courses (of which twelve must be from Ph.D. core courses) and an oral examination or the Ph.D. qualifying examination. Requirements for the Master of Science (M.S.) degree are thirty semester hours of graduate courses, including 6 hours of thesis and at least twelve semester hours from the Ph.D. core courses. The Physics Department does not have a foreign language requirement for the master's degrees.

Students working toward an M.A. or M.S. degree are required to register for PHY 5180 (colloquium) each semester, until two semester hours have been completed.

The Department of Physics also offers the M.A. and M.S. degrees with a specialty in environmental physics. In addition to the admission requirements listed above, the following regulations also apply:

1. The student's Advisory Committee shall include one member of the physical sciences faculty, active in the Department of Environmental Studies.
2. A minimum of eighteen hours of graduate-level physics (twelve semester hours of 5000 level physics) is required.
3. Six semester hours of graduate-level course work in environmental studies are required.

4. Six semester hours of research (PHY 5V99) are required for the thesis with the research problem area being in environmental physics.

Additional information concerning the M.A. and M.S. degrees with a specialty in environmental physics may be obtained from the chairperson of the department.

DOCTOR OF PHILOSOPHY

A minimum of seventy-eight hours is required for the Ph.D. in physics. As part of this requirement, the student must receive course credit for the physics Ph.D. core (PHY 5320, 5330, 5331, 5340, 5360, 5370 and 5371) along with credit for four semester hours of 5180 (colloquium) which must be completed in residence. The remaining hours will consist of a combination of advanced courses as required by the student's supervisory committee, electives, and twelve hours of dissertation with its associated research. In order to carry out the dissertation research, a student must declare the Ph.D. Candidacy by passing the Ph.D. qualifying examination. The Physics department does not have a foreign language requirement for the Ph.D. degree.

The research required for the Ph.D. degree will be conducted in one of the active research areas within the department. Currently, this includes the fields of theoretical or experimental astrophysics, atomic, condensed matter, complex plasma, molecular, nonlinear dynamics, nuclear, optical, solid-state, space, surface, and elementary particle physics as well as super string theory, cosmology, and gravity. The experimental labs include the Van de Graaff lab equipped with two two-million volt Van de Graaff accelerators, LSAM (Laboratory for Surface Analysis and Modification) with an XSAM 800 Surface analysis system, semiconductor laser optics lab with a Nd: YAG laser and optical parametric oscillator, and the HIDPL (Hypervelocity Impacts and Dusty Plasma Lab) equipped with two GEC rf reference cells, a Zyvex S100 nanomanipulator, Verdi laser system, a dye laser system, two light gas accelerators, and an electrostatic linear accelerator. All of the physics labs are supported by on-site machine and electronics shops. The department is also active in experimental High Energy Physics at the Fermi National Accelerator Laboratory in Batavia, Illinois.

POLITICAL SCIENCE

Chair: Mary P. Nichols

Graduate Program Director: Mary P. Nichols

The Department of Political Science offers graduate work leading to the Master of Arts and Doctor of Philosophy degrees in political science, as well as the following M.A. degrees:

- Master of Arts in international relations
- Master of Public Policy and Administration
- Master of Public Policy and Administration and Juris Doctor, offered jointly with the Baylor University School of Law

Admission

For admission to the department's graduate programs, an applicant must present:

1. a bachelor's degree from an accredited college or university either in political science or a field relevant to applicant's program of study
2. an overall GPA and a Graduate Record Examination General Test (GRE) score predictive of success in the program
3. three letters of recommendation
4. a "statement of purpose," identifying areas of primary interest, describing intellectual background and ambitions, and explaining how the degree sought facilitates applicant's academic and professional goals (1-2 pages)

5. a brief writing sample (e.g., an undergraduate paper of 10-12 pages)
6. expressed areas of academic/research interests compatible with those of the faculty
7. applicants whose native language is not English and whose undergraduate degree is from an institution outside the United States must also submit results from the TOEFL exam (for further details, see the section on Admissions at the front of this catalog)

Decisions about admissions and financial aid will, in each case, be based on evaluation of these materials as a whole. An interview with political science faculty is also recommended for all applicants.

MASTER OF ARTS

Requirements

Thirty-six hours of graduate study. A minimum of eighteen of those hours, exclusive of thesis credits, must be in courses at the 5000 level. For information on transferring graduate credit from an accredited university or college, see the section on transfer credit in the General Degree Requirements Section in the front of the catalog. The M.A. in political science is not an independent degree, but is ordinarily awarded only to students enrolled in the Ph.D. program upon completion of the course requirements here described.

Distribution Requirements:

18 sem. hrs.

Students select a primary and secondary field from the following three fields:

- Political philosophy/political theory
- American politics/constitutional law
- Comparative politics/international relations

Primary field requirement: 9 sem. hrs.

Secondary field requirement: 6 sem. hrs.

Third field requirement: 3 sem. hrs.

Elective Courses

12 sem. hrs.

Students will choose four additional graduate courses from the Political Science department's remaining 4000 and 5000 level courses to make up a program of study of at least 30 hours. With the approval of the Graduate Program Director, students may take up to six elective hours outside of the Political Science department. These hours must be at the 4000 level or higher.

Writing and Special Study Options

6 sem. hrs.

The Master of Arts degree in political science may be earned in two ways. After consultation with the Graduate Program Director, all students will choose one of the following:

Thesis program: Students who elect to write a thesis are required to complete six semester hours of thesis credit. A final requirement is a comprehensive oral examination designed by the chair of the thesis committee.

Non-thesis program: Students may elect to take six additional hours of graduate level course work rather than write a thesis. Students who do not write a thesis must pass a comprehensive examination.

Please note that all students must plan to take their examinations during the spring or fall semesters, even if anticipating an August graduation.

Total required

36 sem. hrs.

DOCTOR OF PHILOSOPHY

Requirements 72 sem. hrs.

Students select a primary and secondary field from the following three fields:

- Political philosophy/political theory
- American politics/constitutional law
- Comparative politics/international relations

major field requirement	18 sem. hrs.
minor field requirement	12 sem. hrs.
third field requirement	3 sem. hrs.

Methodology/Language Requirements	3-9 sem. hrs.
(includes PSC 5323, Research Design and Research Methods)	
interdisciplinary concentration	9 sem. hrs.
electives	9-15 sem. hrs.
dissertation work	12 sem. hrs.

Political Science Preparation

1. Either an M.A. thesis or a comprehensive exam in the student's second year is required for the M.A. degree, which will be used in evaluation of a student's preparation to continue on for the Ph.D.
2. Doctoral students who choose comparative politics/international relations as their primary field may elect to receive a Master of Arts in international relations rather than in political science by completing the requirements for that degree, but substituting the "writing and special study options" of the M.A. in political science for those of the terminal M.A. in international relations. In addition, those doctoral students who choose to receive an M.A. in international relations may request that the third field requirement of the M.A. degree in political science be postponed until the student's third year of study and the oral component of the language requirement of the M.A. in international relations be waived.
3. Comprehensive exams in both major and minor fields of study.
4. An approved dissertation prospectus.
5. An approved dissertation and a successful oral defense before a committee constituted in accordance with Graduate School guidelines.

Methodology/Language Preparation

1. PSC 5323, Research Design and Research Methods (3 hours).
2. Competency in either one foreign language (classical or modern) or a course in advanced research methods and statistics, such as SOC 5312 (cross-listed as PSC 5312), Social Science Data Analysis. When appropriate, a second foreign language or course in statistics will be recommended.

Interdisciplinary Preparation

1. Three courses (9 hours) in an interdisciplinary concentration, Religion and Politics, or other approved by the Graduate Director.
2. A professional paper that completes the interdisciplinary concentration (25-30 pages), approved by two professors who have worked with the student in this concentration.

Teaching preparation

1. 3-4 semesters work as a teaching apprentice for undergraduate courses.
2. 6 credits of PSC 5396, Teaching Political Science (and not more than 9 hours),

should be taken in conjunction with teaching apprenticeships (these can be included in field requirements).

3. Teaching experience in one or more undergraduate courses.

Students who enter the Ph.D. program with an M.A. degree from another institution will find the requirements modified to take appropriate account of their previous graduate work.

MASTER OF ARTS in International Relations

Program of Study

The minimum requirement for the Master of Arts graduate degree is thirty-six hours, which must include twelve semester hours of 5000-level graduate courses and may include six hours of thesis. For information on transferring graduate credit from an accredited university or college, see the section on transfer credit in the General Degree Requirements Section in the front of the catalog.

Primary Core Courses

12 sem. hrs.

PSC 4365	International Political Economy
PSC 4375	International Organizations
PSC 5315	Development of International Relations Thought
PSC 5324	Seminar in Comparative Politics
PSC 5325	Seminar in International Relations
PSC 5323	Research Design and Research Methods

Secondary Core Courses

6 sem. hrs.

PSC 4305	International Law
PSC 4355	Power, Morality, and International Relations
PSC 4385	Diplomacy in Theory and Practice
PSC 5335	Seminar in National Security Decision Making
PSC 5344	Comparative Constitutional Law
PSC 5345	American Foreign Policy

Electives

12 sem. hrs.

Six hours must be from Regions; six hours must be from Global Issues and Institutions. PSC 5391 may be taken only once for credit either in Regions or Global Issues and Institutions.

Writing and Special Study Options

6 sem. hrs.

After consultation with the Graduate Program Director, a student will choose one of the following options:

1. PSC 5V12 Graduate Internship, involving a written report on at least three months of full-time supervised employment with an agency involved in International Affairs;
2. PSC 5395 Professional Paper in International Relations and one additional 5000 graduate level elective;
3. PSC 5V99 Master's Thesis including an oral defense of the project; or
4. Six semester hours of graduate-credit study at a foreign university, as approved by the Graduate Program Director and the Dean of the Graduate School.

Total

36 sem. hrs.

Fields of Study

REGIONS

Asia

PSC	4325	Asian International Relations
PSC	4344	Government and Politics of Russia
PSC	4364	The Governments and Politics of the Asia-Pacific Region
PSC	4374	Governments and Politics of East Asia
AST	4350	Seminar in Asian Studies
PHI	4340	East Asian Philosophy
REL	4346	Religions of India, China, and Japan
REL	5347	Religions of India

Europe and the United States

PSC	4324	British Government and Politics
PSC	4335	Public Discourse and Foreign Policy
PSC	4354	Governments and Politics of Western Europe
PSC	5310	Seminar in American Politics
PSC	5335	Seminar in National Security Decision Making
PSC	5345	American Foreign Policy
CHS	5338	Seminar on the History of Church and State in the West
HIS	4336	Europe since World War I
HIS	4339	Cultural and Intellectual History of Modern Europe
HIS	4343	France since 1815
HIS	4390	American Foreign Relations to 1919
HIS	4392	American Foreign Relations since 1919
PHI	4341	Contemporary Continental Philosophy
REL	5335	Modern European Christianity

Latin America

PSC	4304	Governments and Politics of Latin America
ECO	4331	Economic Problems of Latin America
HIS	5350	Seminar in Latin American History
LAS	4350	Latin American Studies Seminar
PHI	4331	Latin American Philosophy

Middle East and Africa

PSC	4334	Government and Politics of the Middle East
AFS	4312	Societies and Cultures of Africa
AFS	4314	Religion and Politics in Contemporary Africa
REL	4345	Religions that Shaped the Western World
REL	5346	Judaism and Islam
REL	5342	Native American Religion

GLOBAL ISSUES AND INSTITUTIONS

PSC	4305	International Law
PSC	4315	Political Geography
PSC	4355	Power, Morality, and International Relations
PSC	4375	International Organization
PSC	4383	Contemporary Political Thought
PSC	4385	Diplomacy in Theory and Practice
PSC	5315	Development of International Relations Thought
PSC	5320	Seminar in Comparative Public Policy
PSC	5391	Reading Course in Political Science
ANT	4350	Urbanization and Development
CST	4353	Telecommunication Policy
ECO	4334	Economic Development

ECO 5321	Energy Economics
ECO 5330	Problem Areas in International Economics
ECO 5338	Seminar in World Economic Systems
ECO 5343	History of Economic Thought
ENV 4310	World Food Problems
REL 5345	Christianity and Other Religions

MASTER OF PUBLIC POLICY AND ADMINISTRATION

Program of Study

The minimum requirement for the Master of Public Policy and Administration graduate degree is thirty-six hours, which must include a minimum of one-half the semester hours at the 5000-level. For information on transferring graduate credit from an accredited university or college, see the section on [transfer credit in the General Degree Requirements Section](#) in the front of the catalog.

There are four components of the MPPA program:

Primary Core Courses (any four) 12 sem. hrs.

PSC 4322	Seminar in Public Administration
PSC 4342	Courts and Public Policy
PSC 5310	Seminar in American Politics
PSC 5321	Seminar in Public Law
PSC 5323	Research Design and Research Methods
PSC 5344	Comparative Constitutional Law
PSC 5345	Seminar in American Foreign Policy

Secondary Core Courses (any three) 9 sem. hrs.

PSC 4307	Environmental Law
PSC 4310	Politics and Communication
PSC 4316	Grand Strategy
PSC 4330	Urban Political Processes
PSC 4335	Public Discourse and Foreign Policy
PSC 4346	Intelligence and Covert Action
PSC 5350	Seminar in Presidential Rhetoric
PSC 5391	Reading Course (Public Policy and Administration topics)*

**Reading Course many only be taken once*

Elective Courses 9 sem. hrs.

(including at least one 5000-level graduate course) selected from:

1. Courses listed above.
2. Other Political Science courses.
3. Relevant graduate-level courses in cognate fields (e.g., Accounting, Church and State, Economics, Environmental Studies, History, Management, Quantitative Business Analysis, Sociology).

Professional Internship/Research 6 sem. hrs.

After consultation with the Graduate Program Director, a student will choose one of the following options:

1. PSC 5V12 Graduate Internship, involving a written report on at least three months of full-time supervised employment with a public service agency;
2. PSC 5395 Professional Paper in a Public Policy and Administration topic and one additional 5000 graduate level elective; or
3. PSC 5V99 Master's Thesis including an oral defense of the project.

Total required 36 sem. hrs.

**JOINT JURIS DOCTOR/
MASTER OF PUBLIC POLICY AND ADMINISTRATION (JD/MPPA)**

Program Directors: Leah W. Jackson, Associate Dean and Professor, Baylor Law School; David D. Corey, Graduate Program Director, Department of Political Science

Admission

Students are required to fulfill admission requirements for **both** the Law School and the MPPA program. The MPPA admission requirements can be found above. The Baylor University School of Law web site at <http://law.baylor.edu/> contains the most current information about the admissions standards of that school.

Program of Study

Students receive twelve quarter hours of credit on a pass/fail basis toward their JD upon successful completion of the MPPA degree requirements and twelve semester hours of credit on a pass/fail basis toward their elective requirements for the MPPA upon successful completion of JD degree requirements. Thus, JD/MPPA students complete 114 quarter hours of Law and 24 semester hours of Political Science course work. Neither degree may be awarded until all course work is complete. Therefore, all requirements of both schools must be finished before the candidate may receive either degree.

A. Upon commencing law studies, the student is required to take the first three quarters consecutively. After the first three quarters, students may set individual schedules for law school and the MPPA courses. In the Law School, JD/MPPA students must complete the following elective courses:

LAW 9359	Local Government, Constitutional and Federal Liabilities
LAW 9365	Municipal Law

B. JD/MPPA students must also fulfill the following Political Science requirements:

Core Seminar Courses (any three) 9 sem. hrs.

PSC 4322	Seminar in Public Administration
PSC 4342	Courts and Public Policy
PSC 5310	Seminar in American Politics
PSC 5321	Seminar in Public Law
PSC 5323	Research Design and Research Methods
PSC 5344	Comparative Constitutional Law
PSC 5345	Seminar in American Foreign Policy

Secondary Courses (any two) 6 sem. hrs.

PSC 4307	Environmental Law
PSC 4310	Politics and Communication
PSC 4316	Grand Strategy
PSC 4330	Urban Political Processes
PSC 4335	Public Discourse and Foreign Policy
PSC 4346	Intelligence and Covert Action
PSC 5350	Seminar in Presidential Rhetoric
PSC 5391	*Reading Course (Public Policy and Administration topics)

**Reading Course may only be taken once*

Elective Courses (any two) 6 sem. hrs.

MGT 5310	Management of Organizational Behavior
MGT 5336	Seminar in Human Resource Management

ECO 5317	Contemporary Government and Business Relations
ECO 5320	The Economics of Government
ECO 5325	Seminar in Regional Economics

Professional Internship/ Research**3 sem. hrs.**

Chose one of the following options:

1. PSC 5V12 A student must complete three semester hours of PSC 5V12, the Graduate Internship. This involves supervised, full-time employment that combines practical field experience and research. Completion of the course requires a written report of the work done during the internship. Students must work in a public sector agency. Both the Graduate Program Director for the Political Science department and the Associate Dean of the Law School must approve all internships.
2. PSC 5395 Professional Paper in a Public Policy and Administration topic

Total required**36 sem. hrs.**

PSYCHOLOGY AND NEUROSCIENCE

Chairperson: Jaime L. Diaz-Granados.

Director of the Psy.D. Program: Gary R. Elkin

Director of Clinical Training: Helen Benedict

Director of the Ph.D. Psychology Program: Matthew S. Stanford

Graduate Degrees in Clinical Psychology

The department offers two graduate degrees in clinical psychology: Doctor of Psychology (Psy.D.) and Master of Science in Clinical Psychology (M.S.C.P.).

Students are not admitted directly to the Master of Science in Clinical Psychology program. However, students admitted to the Psy.D. program will also pursue a Master of Science in Clinical Psychology degree. This program is available only to students who are initially admitted to the Psy.D. degree program. Students admitted to the Ph.D. in psychology are not permitted to pursue a Master of Science in Clinical Psychology degree.

The Psy.D. degree prepares students as scholar practitioners in clinical psychology. The program is fully accredited by the American Psychological Association. Formal course work is integrated with practicum and research experiences to produce highly qualified scholar-practitioners in this area of specialization. Admission to this program is made only at the beginning of the second six weeks of the summer session each year, and all application materials including a supplemental application (autobiography, a record of relevant experience), GRE General Test scores, and three letters of recommendation must be received on or before January 2 of the year in which the applicant wishes to begin.

MASTER OF SCIENCE in Clinical Psychology

Admission

Applicants must be previously admitted to the Doctor of Psychology Program. The admission requirements are listed in the General Information section of this catalog.

Program of Study

Completion of all required courses through the Fall semester of the third year of study for the Doctor of Psychology degree, including completion of eighteen hours of Practicum and Professional Development (PSY 5371, 5372) and fifteen courses. Completion of the first written doctoral comprehensive examination is required as well as current good

standing in the Doctor of Psychology program. This program does not require a foreign language. The required courses for the Doctor of Psychology program follow.

DOCTOR OF PSYCHOLOGY
in Clinical Psychology

Requirements for this degree are listed in the General Information section of this catalog. Policies and operating procedures for each of the above degrees are detailed in a program manual. The program manual is provided to each student upon enrollment. This program does not require a foreign language.

Program of Study sem. hrs.

*PSY 5371 Practicum and Professional Development I (three terms)	9
*PSY 5325 Ethics in Clinical Psychology	3
*PSY 5316 Clinical Psychopathology	3
*PSY 5431 Psychological Assessment I	4
*PSY 5423 Psychotherapy I	4
*PSY 5429 Psychotherapy II: Cognitive Behavior Therapy	4
*PSY 5432 Psychological Assessment II	4
*PSY 5372 Practicum and Professional Development II (three terms)	9
*PSY 5333 Psychological Assessment III	3
*PSY 5335 Multicultural Issues	3
*PSY 5321 Developmental Psychology	3
PSY 5344 History and Systems	3
PSY 5373 Practicum and Professional Development III (three terms)	9
PSY 5339 Social-Organizational Psychology	3
PSY 5301 Introduction to Experimental Design	3
PSY 5302 Measurement in Psychology	3
PSY 5311 Seminar in Memory and Cognition	3
PSY 5323 Biological Foundations of Behavior	3
PSY 5317 Psychotherapy III: Relationship-based Techniques	3
PSY 5330 Neuropharmacology	3
PSY 5388 Seminar in Applied Statistics	3
PSY 5428 Group Dynamics and Psychotherapy	3
PSY 5426 Assessment and Intervention with Children	4
PSY 5374 Practicum and Professional Development IV	3
PSY 5370 Administration and Supervision	3
PSY 6V01 Clinical Internship (three terms)	3
PSY 6V99 Dissertation (6 hours required)	<u>6</u>
Total Hours	107

**Required courses for M.S.C.P.*

Graduate Degrees in Psychology

The department offers two graduate degrees in psychology: Doctor of Philosophy (Ph.D.) and Master of Arts (M.A.).

MASTER OF ARTS
in Psychology

Students are not admitted directly to the Master of Arts program. However, students admitted to the Ph.D. program may, with the approval of the faculty, pursue a Master of Arts degree. This option is available only to students who are initially admitted to the Ph.D. degree program. Students admitted to the Psy.D. program are not permitted to pursue a Master of Arts degree in psychology.

Non-Terminal M.A. in Psychology (students continuing in the doctoral program)

Students are encouraged to earn their M.A. in psychology by:

- Completing the core courses marked with an asterisk (*),
- Registration and completion of three additional hours of NSC/PSY 5V99, and
- Proposing, completing, and defending a thesis.

M.A. requirements are usually completed by the second or third year of study.

Terminal M.A. in Psychology

In rare circumstances, a student admitted to the doctoral program may leave before completing all of the work required of the Ph.D. In exceptional cases, the student may be given the opportunity to complete a terminal M.A. in psychology. This terminal M.A. requires completion of at least five additional hours, taken from 5V51, 5V96 and/or electives, and may or may not require completing and defending a thesis, depending on the nature of the work and the decision of the psychology faculty and program director.

DOCTOR OF PHILOSOPHY in Psychology

The doctoral program in Psychology has three training tracks; **Behavioral Neuroscience, Social Psychology, and General Experimental Psychology**. All Ph.D. students begin by taking a set of general core classes representing the breadth in the discipline of psychology. Differences in the tracks begin with the specialty core which is comprised of course work specific to Behavioral Neuroscience, Social Psychology, or General Experimental Psychology. Upon acceptance to doctoral candidacy, students in each track have a specific set of doctoral and elective classes from which to choose.

The Ph.D. program in psychology prepares students for university teaching/research, and applied positions in universities, hospitals, industry, or government. The program consists of course work, a qualifying examination, research leading to a doctoral dissertation, and a final oral examination. Students are admitted to the program only in the fall semester.

Students in the Ph.D. program in psychology at Baylor University are expected to acquire sufficient knowledge and expertise to permit them to work as independent scholars at the frontier of Psychology upon graduation. The Doctor of Philosophy degree is ultimately awarded to those individuals who have attained a high level of scholarship in a selected field through independent study, research, and creative thought.

Students entering the program with post-baccalaureate work or a post-baccalaureate degree from an accredited institution may apply a maximum of 12 semester hours of graduate course work toward the Ph.D. degree. These transfer hours must be approved by the major adviser and program director.

The program is designed to concentrate course work during the first three years of study, leading to the qualifying examination. Upon successfully passing the qualifying examination, students are admitted to Ph.D. candidacy, where course demands are minimal. This program does not require a foreign language.

General Core Courses**sem. hrs.**

*NSC 5311	Seminar in Memory and Cognition	3
*PSY 5323	Biological Foundations of Behavior	3
*PSY 5339	Social-Organizational Psychology	3
*PSY 5301	Introduction to Experimental Design	3
*PSY 5302	Measurement in Psychology	3
*PSY 5388	Advanced Statistical Methods	3

PSY 5384	Multivariate Statistical Methods	3
One from PSY/STA 5305	and PSY/STA 5390	3
NSC/PSY 5V51	Supervised Teaching	6
NSC/PSY 5V96	Research Methods	7
NSC/PSY 6V99		
Dissertation		12

Specialty Cores and Doctoral Classes

Behavioral Neuroscience

*NSC 5330	Neuropharmacology	3
*NSC 5430	Neuroanatomy	4
*NSC 5V71	Selected Topics in Neuroscience	3
*NSC 5V96	Research Methods	4
Two of the following:		6
(NSC 5318, NSC 5319, NSC 5320, NSC 5360, NSC 5V71)		

Social Psychology

*PSY 5350	Advanced Personality Theory	3
*PSY 5437	Social Psychology and	
	Group Dynamics	4
*PSY 5V71	Selected Topics	3
*PSY 5V96	Research Methods	4
*Two of the following:		6
(PSY 5334, PSY 5388, PSY 5321 PSY 5V71)		

General Experimental Psychology

Two of the following:		6
(NSC 5318, NSC 5319, NSC 5320, NSC 5360, PSY 5305, PSY 5321 PSY 5334, PSY 5431, PSY 5432)		
*PSY 5V71	Selected Topics in Psychology3	
*PSY 5V96	Research Methods	5
*Two of the following (Must be different than the speciality core):		6
(NSC 5318, NSC 5319, NSC 5320, NSC 5330, NSC 5360, NSC 5430, PSY 5305, PSY 5321, PSY 5334, PSY 5350, PSY 5431, PSY 5432, PSY 5437, PSY 5V71)		

Minor,	9
Total Hours	78

*Required Courses for M.A.

iWith approval of the major advisor and graduate director, a student may elect not to declare a minor. In such cases, the student must take at least nine hours of electives.

Electives

NSC 4312	Behavioral Medicine
NSC 4330	Behavioral Neuroscience
PSY 4339	Psychology of Religion
NSC 5V06	Individual Studies in Neuroscience
PSY 5V06	Individual Studies in Psychology
NSC 5V71	Selected Topics in Neuroscience
PSY 5V71	Selected Topics in Psychology
STA 5305	Advanced Experimental Design
STA 5307	Advanced Statistics II

PSY 5313	Advanced Measurement in Psychology
STA 5315	Quantitative Psychology
PSY 5321	Developmental Psychology
PSY 5380	Multidimensional Scaling
STA 5386	Exploratory Factor Analysis
STA 5389	Mathematical Models in Psychology

With the consent of the Graduate Program Director, elective courses may be taken in other departments, provided the course has graduate standing.

Policies and operating procedures for each of the above degrees are detailed in a program manual provided to each student upon enrollment.

RELIGION

Chairperson: W.H. Bellinger, Jr.

Graduate Program Director: James Nogalski

The Department of Religion has offered graduate work for more than forty years. Both the university and the department are friendly to faith and to the church and thus provide a setting distinctive in American higher education. The graduate faculty in religion is committed to forming graduate students in the scholarly tasks of research and teaching. That agenda, along with an increasingly impressive cohort of graduate students, creates a lively context for graduate studies in religion. Visit the program's website <http://www.baylor.edu/religion>

The graduate program in religion is designed to offer a range of educational opportunities for the serious student of religion. Various programs at both the Master of Arts and Doctor of Philosophy levels are structured to meet diverse needs and objectives.

MASTER OF ARTS

Admission

For admission to study toward a Master of Arts in religion, students must have completed a minimum of eighteen hours in the classical theological disciplines (biblical, historical, theological) including nine hours of 3000- to 4000-level courses. Certain courses in closely related fields may apply with the approval of the graduate committee in religion. Admission to this program of study shall follow the policy of admission described elsewhere in this graduate catalog. Applicants must present grade-point averages and Graduate Record Examination General Test (GRE) scores that are predictive of success in the program. An applicant's academic record must be high in quality and broad in content. It must be of such quality as to give positive evidence of capacity for graduate study and a genuine scholarly interest.

Curriculum

For description of the program for the degree (courses, thesis, examination), see the General Information section of this catalog. The Religion M.A. requires 27 semester hours of course work and three semester hours of thesis credit.

Intermediate proficiency in one foreign language is a requirement for the M.A. Methods for achieving the proficiency are described earlier in this catalog under Specific Degree Requirements for the M.A. The foreign language used to satisfy the requirement is determined by the Graduate Program Director in consultation with the student's faculty advisor. All language requirements must be completed before the final oral exam is scheduled.

At the M.A. level, two programs meet the goals of students.

General Program: A broad course of study is available for those whose purpose is to acquire a comprehensive study of religion at the graduate level. This program is designed to satisfy the needs of either those who want a broad foundation from which to do further graduate study or those who desire a deeper understanding of the Christian religion for personal or vocational purposes. In this program, the student will take at least six semester hours of study in each of the three major divisions (biblical, historical, and theological) of the department.

Specialized Program: Another program is designed for the student with adequate undergraduate background in religion who wants to pursue intensive study and research within one of the three major divisions. In consultation with the student's faculty advisor and the Graduate Program Director in Religion, a program of study centered in one of the departmental divisions can be designed. In this program, the student may be permitted to take as many as six semester hours outside the Department of Religion, if these courses contribute directly to the student's specialized interest.

Related Opportunities

Opportunities are available for M.A. students in other programs at Baylor to include a religion component in their studies. Note, for example, the courses of study suggested by American Studies, Church-State Studies, and Environmental Science.

The department also offers a non-thesis route to the M.A. Students are not admitted directly to the non-thesis M.A. program, but Ph.D. students who are not able to complete the dissertation may, with the approval of the faculty, pursue the non-thesis M.A. Contact the Graduate Program Director in Religion for details.

DOCTOR OF PHILOSOPHY

The Doctor of Philosophy with a major in religion provides an opportunity for qualified students to do graduate work in this discipline at the highest level and in the university setting. It provides preparation for research and teaching in the college and university setting where religion is taught as one of the liberal arts and in relation to other such disciplines, particularly the humanities, the social sciences, and the natural sciences.

Admission

Admission to doctoral study requires an M.A. degree or its equivalent. The M.A. must be an accredited degree in religion. By "equivalent" is meant approximately thirty semester hours of accredited graduate work in religion at the degree level of M.A., B.D., or M.Div., for example. International students must meet the minimum University requirement on the TOEFL examination for admission to the graduate program. They must also meet other regular admission procedures.

Before enrollment for doctoral study, each student's total record will be reviewed by the graduate faculty of the Department of Religion through its graduate committee. Approval will be based on each student's record including:

1. B.A. work (both quality and content).
2. M.A. or equivalent (both quality and content). The applicant must submit a GPA predictive of success in the program.
3. Graduate Record Examination General Test (GRE) scores.
4. Academic letters of reference.
5. Writing samples.
6. An autobiographical essay.

Admission to doctoral study presupposes a broad foundation in the classical theological disciplines (biblical, historical, theological). Upon application for admission to doctoral

study, students must specify one division as their major area of concentration: Biblical Studies, Historical Studies, or Theological Studies. In the review of their record, special attention will be given to their foundation in that area. Applicants in Biblical Studies must have completed a minimum of twelve semester hours of Greek and six semester hours of Hebrew, with a grade of “B” or above in the last semester of each language. Old Testament students may apply with 12 semester hours of Hebrew and 6 hours of Greek.

The deadline for the completion of applications for doctoral admission and for financial assistance is **December 15**. Those admitted may begin doctoral study in the summer or fall semester.

Course Requirements

After approval for doctoral study, students must take a minimum of forty-eight semester hours as outlined below and chosen in consultation with their advisory professor. Choice of courses should include a consideration of the preliminary examinations which will come at the completion of all of the class requirements. A minimum of thirty-six semester hours must be taken at the 5000 level.

Courses within the Department of Religion

For the Ph.D. in religion, thirty-nine semester hours (minimum) are required in Biblical Studies, Historical Studies (which may include Baptist Studies), or Theological Studies as indicated here.

Major Division: Thirty semester hours (minimum) in one of these three fields declared as the area of concentration. All courses in the major division must be at the 5000 level.

Minor Divisions: A total of nine semester hours (minimum) in the other two fields. These hours, by their nature, should strengthen the student’s total program. In consultation with the advisory professor, the minor may be accomplished by concentrating all nine hours in one of the other fields of study in the department or by completing coursework across both of the other fields.

Outside Courses

In consultation with the advisory professor and with the approval of the graduate professors in their area of concentration, students shall select the remaining nine semester hours for the enrichment of their major and by one of the following options:

Option one: A cognate of nine semester hours in a department other than Religion, such as Church-State Studies, English, History, Philosophy, or Sociology. Additional hours in the minor will not lessen the thirty-nine hour minimum in Religion.

Option two: A cluster of nine semester hours selected from two or more departments, other than Religion, such as those cited in option one. These courses should hold together conceptually.

Coursework Requirements (48 hours)

Religion Major	Religion Minor	Outside Courses
30 hours:	9 hours:	9 hours
6 hours colloquia (6 one-hour courses)	4000- or 5000-level courses in Religion	A cognate or a cluster outside Religion
18 hour emphasis (6 three-hour seminars)		
6 hours in related field (2 three-hour seminars)		

Foreign Languages

The requirement of foreign languages as research tools is related to the major field of study and to research needs. The basic requirement is intermediate proficiency in two foreign languages. Methods for achieving the proficiency are described earlier in this catalog under Specific Degree Requirements for the Ph.D. The following statements indicate the basic policy in each area:

Biblical Studies: The requirement is German and French. The area faculty may approve the substitution of another language for French if the student's research needs justify the substitution.

Historical Studies: (1) Students concentrating in Church History will achieve intermediate proficiency in two of the following: German, French, or Latin. (2) Students concentrating in History of Religions will achieve proficiency in German or French plus one of the classical languages of world religions (such as Sanskrit or Arabic).

Theological Studies: The requirement is German and French. The area faculty may approve the substitution of another language for French if the student's research needs justify the substitution.

Additional language study may be required in relation to research needs.

One language must be completed before the beginning of course work, and the faculty recommends that all language work be completed in summer sessions. All foreign language requirements must be completed before students begin the last twenty-four semester hours of course work.

Preliminary Examinations

The preliminary examinations will come at the completion of course work (see the General Information section of this catalog). The examinations are described in a program guide that is provided to each student by the Department of Religion.

Admission to candidacy for the Ph.D. with a major in religion will follow the policy related to passing the foreign language examinations, the preliminary examinations, and certification by the Dean of the Graduate School.

The Dissertation

The final stage in the doctoral work is the satisfactory completion of a dissertation. Nine semester hours of dissertation credit are required along with a final oral examination on the dissertation.

SOCIOLOGY

Chairperson: Charles M. Tolbert II

Graduate Program Director: Robyn L. Driskell

Graduate Degrees in Sociology

The department offers two graduate degrees in sociology: the Doctor of Philosophy (Ph.D.) and the Master of Arts (M.A.).

Although students are admitted directly to the Doctor of Philosophy (Ph.D.) program, they will pursue a Master of Arts in sociology. The M.A. program is available only to students who are initially admitted to the Ph.D. program. Students entering the program with graduate level work or a graduate degree from an accredited institution will have that work evaluated by the admissions committee and have a maximum of twelve semester hours of graduate course work applied toward their graduate work at Baylor University.

The two major tracks in the doctoral program are applied sociology and sociology of religion. The first two and a half years of the program have roughly the same requirements

for both areas of emphasis, but during the last two and a half years students move into the more specialized areas.

Students in applied sociology work at the Center for Community Research and Development (CCRD) with faculty on client-oriented research. Students in the sociology of religion area of emphasis may work with faculty mentors at the Institute for the Studies of Religion (ISR). The program is designed to concentrate course work during the first three years of study, leading to the comprehensive exams. At the end of the second year, students are expected to have completed research resulting in a journal article or its equivalent. This paper is regarded as a Master's thesis equivalent.

Admission Requirements:

B.A. (or equivalent); GPA and GRE General Test scores predictive of success in this graduate program

- Undergraduate statistics course
- Personal statement of interest
- Three letters of recommendation
- An interview with the graduate admission committee, usually on Recruitment Weekend in February
- Expressed areas of academic/research interests compatible with those of the faculty

DOCTOR OF PHILOSOPHY

Requirements

The Ph.D. is an eighty-four semester-hour program, with fifty-four semester hours beyond the master's degree. The Ph.D. hours include twelve hours of dissertation and six hours of supervised teaching. Students must successfully complete the requirements for the M.A. degree in the process of pursuing a Ph.D. Course work includes a standard set of courses (12 hours) in research methods and theory, as well as 27 hours of core courses in the appropriate area of emphasis. There is no foreign language requirement for this program.

The Department of Sociology currently offers two areas of concentration: applied sociology and sociology of religion.

Applied Sociology

Curriculum in the applied sociology area of emphasis includes:

Primary Courses (Choose from the following)	27 sem. hrs.
SOC 6301	Focus Group Research
SOC 6303	Telephone Surveys
SOC 6307	Statistical Methods for Survey Research
SOC 6310	Mail Surveys
SOC 6317	Community Spatial Analysis
SOC 6318	Sampling Techniques
SOC 6325	Needs Assessment
SOC 6340	Face to Face Surveys
SOC 6350	Seminar in Human Resources Management
SOC 6360	Demographic Techniques
SOC 6391	Grant Writing and Proposal Development
SOC 6V37	Special Topics Applied Research Assistantship (6 hours required)
Secondary Courses	9 sem. hrs.
SOC 6V97	Seminar in Teaching (6 sem. hrs.)
SOC 6314	Advanced Quantitative Analysis
Dissertation	12 sem. hrs.
SOC 6V99	Dissertation

Electives	36 sem. hrs.
Sociology courses approved by the department.	
Total	84 sem. hrs.

Sociology of Religion

Curriculum in the sociology of religion area of emphasis include:

Primary Courses (Choose from the following)	27 sem. hrs.
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SOC 5341	Introduction to the Sociology of Religion
SOC 5342	Data Sources and Publishing in the Sociology of Religion
SOC 5343	Theory in the Sociology of Religion
SOC 6317	Community Spatial Analysis
SOC 6331	The Sociology of Religiosity
SOC 6332	The Sociology of Religious Organizations
SOC 6333	Religion and Society
SOC 6334	The Sociology of Religious Deviance
SOC 6335	Religion, Morality, and Social Change
SOC 6336	Religion, Race, and Gender
SOC 6V37	Special Topics in the Sociology of Religion

Secondary Courses	9 sem. hrs.
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SOC 6V97	Seminar in Teaching (6 sem. hrs.)
SOC 6314	Advanced Quantitative Analysis for Sociology

Dissertation	12 sem. hrs.
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SOC 6V99	Dissertation
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Electives	36 sem. hrs.
Sociology courses approved by the department.	

Total	84 sem. hrs.
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Examination Procedures

Students will be recognized as candidates for the doctoral degree only after having: 1) passed the preliminary examination; 2) completed all residence and departmental requirements except the dissertation; and 3) received approval by the Dean of the Graduate School of their formal application for admission to candidacy for the degree. The preliminary examination will be a combination of written and oral sections and come at the completion of all course work in the degree program. As is customary, after having completed the dissertation, the candidate must defend successfully the dissertation at an oral examination.

Master of Arts

The Master of Arts degree is 30 hours comprising the core training courses in theory and research methods to prepare students for the Ph.D. degree. Students are admitted to the Ph.D. program with the requirement of earning an M.A. degree during the first two years. At the completion of the M.A. degree, students will be evaluated by the Graduate Faculty to recommend continued funding of their education. In addition, students who fail to complete the M.A. degree by the end of the fall semester in the third year will not be considered for further financial support. We do not admit students who are seeking a terminal M.A. degree.

Curriculum:

Required Courses

SOC 5V99	Thesis	6 sem. hrs.
SOC 5312	Social Science Data Analysis	3 sem. hrs.

STA 5384	Multivariate Statistical Methods	
or		
SOC 6307	Statistical Methods for Survey Research	3 sem. hrs.
SOC 5391	Advanced Sociological Theory	3 sem. hrs.
Electives		15 sem. hrs.
Total		30 sem. hrs.

SPANISH

Modern Foreign Languages

Chairperson: Heidi L. Bostic

Graduate Program Director: Jan Evans

The goals of the Master of Arts program in Spanish are 1) to prepare students who hope to pursue the Ph.D. in Spanish and related fields, through research projects and other scholarly activities, 2) to strengthen the skills of elementary and secondary school teachers of Spanish, 3) to prepare individuals to function in social and business situations in Hispanic countries, and 4) to broaden the student's global perspective.

Admission

An applicant should have a bachelor's degree from an accredited university with a minimum of eighteen hours of Spanish beyond the sophomore level or the equivalent. An applicant should have a GPA in Spanish courses taken as an undergraduate that is predictive of success in this graduate program. Each candidate will be evaluated on an individual basis, and additional designated courses may be required as prerequisites for graduate work. All applicants must present the GRE General Test and, for international students, the TOEFL is required.

Requirements

The Master of Arts degree in Spanish requires thirty-six semester hours. The curriculum follows the options outlined below:

Option I (thesis-track) requires thirty-six semester hours, including six thesis hours. A minimum of fifteen hours, excluding the thesis, are required at the 5000 level.

Literary Theory, Research and Writing	3
Thesis	6
Three Linguistics courses*	9
Two Peninsular Literature courses	6
Two Latin American Literature courses	6
Electives**	<u>6</u>
Total	36 sem. hrs.

Option II (non-thesis-track) requires thirty-six semester hours, A minimum of eighteen hours, must be taken at the 5000 level.

Literary Theory, Research and Writing	3
Three Linguistics courses*	9
Three Peninsular Literature courses	9
Three Latin American Literature courses	9
Electives**	<u>6</u>
Total	36 sem. hrs.

For both options, students must demonstrate intermediate level proficiency in a second romance language. See the Graduate School Foreign Language Requirements for a list of

options available for demonstrating proficiency.

Students must also pass written and oral final examinations and/or research projects. In selecting electives, students must declare an area of emphasis: literature or linguistics.

** In the linguistics area, all students must take: SPA 5350 Introduction to Romance Linguistics, SPA 5351 History of the Spanish Language and SPA 5359 Seminar in Language Acquisition and Applied Linguistics.*

***Electives must be approved by the graduate advisor and must fit the area of emphasis chosen by the student.*

STATISTICAL SCIENCE

Chairperson: Jack D. Tubbs
Graduate Program Director: James Stamey

The Department of Statistical Science offers the Doctor of Philosophy and the Masters of Science degrees in statistics. The degree program provides a balance between statistical theory and applications of statistical methods. Emphasis is placed on acquiring research, consulting, and teaching skills that are applicable to the biomedical sciences, the natural sciences, academe, business and industry and behavioral and social sciences.

Admission

Applications from students with undergraduate degrees in business, computer science, engineering, mathematics, natural or life sciences, behavioral or social sciences are welcome. Applicants should have a foundation in calculus and linear algebra. The GRE General Test (verbal and quantitative) is required.

Financial Support

The Department offers financial assistance for its doctoral degree candidates. An assistantship provides a stipend at a competitive level and tuition remission. An application to the graduate program in statistics is also considered an application for an assistantship. Special awards are available for outstanding students.

More information concerning the graduate program in statistics is available [jgtg0](#)

DOCTOR OF PHILOSOPHY

Requirements

Ph.D. students must complete seventy-five semester hours. Requirements include a statistics core of twenty-seven semester hours, consulting-teaching practicum of six semester hours, elective courses of thirty-three semester hours, and nine semester hours of dissertation. Other requirements are computer proficiency and a preliminary examination. A foreign language is not required.

Curriculum

Statistics Core		27 sem. hrs.
STA 5380	Statistical Methods for Research	
STA 5381	Regression Analysis	
STA 5382	Theory of Linear Models	
STA 5383	Multivariate Statistical Analysis	
STA 5365	Topics in Biostatistics	
STA 5353	Theory of Statistics III	
STA 6351	Large Sample Theory	
STA 6352	Bayesian Theory	
STA 6384	Catagorical Data Analysis	

Practicum Courses**6 sem. hrs.**

STA 5V85 Practice in Statistics

Dissertation**9 sem. hrs.**

STA 6V99 Dissertation

Elective Courses**33 sem. hrs.**

The elective courses are selected from any STA course or from approved courses in MTH, CSI, ECO, QBA, ISY, BIO or PSY. Note that STA 5V85 does not count as an elective course.

MASTER OF SCIENCE

Requirements

M.S. students must complete thirty-three semester hours. Requirements include a statistics core (twelve semester hours), consulting-teaching practicum (three semester hours) and elective courses (eighteen semester hours).

Curriculum**Statistics Core****12 sem. hrs.**

STA 5380 Statistical Methods for Research

STA 5381 Regression Analysis

STA 5383 Multivariate Methods

STA 5353 Theory of Statistics III

Practicum Courses**3 sem. hrs.**

STA 5V85 Practice in Statistics

Elective Courses**18 sem.hrs.**

The elective courses are selected from any STA course or from approved courses in MTH, CSI, ECO, QBA, MIS, BIO, or PSY.

MINOR IN STATISTICS

Requirements

For a graduate minor in statistics, students must complete twelve hours of course work. The following two courses are required:

STA 5300 Statistical Methods, or

STA 5380 Statistical Methods for Research

STA 5384 Multivariate Statistical Methods

Two additional graduate statistics courses are selected with the approval of the department.

THEATRE ARTS

Chairperson: Stan C. Denman**Graduate Program Director:** DeAnna Toten Beard**Mission Statement**

The Baylor University Theatre is committed to providing quality theatre training in an environment that includes a Christian worldview. The degree is intended for students who want to establish their own theatres, or for directors who wish to pursue a vocation in educational, professional, or church theatre. Admission to the program is highly competitive. The department admits only two or three talented individuals each year who have demonstrated the potential to be directors in professional or educational settings. Students should have a solid background in dramatic literature and theatre history as well

as practical experience in play analysis, visual composition, design collaboration, and production skills. Each student will serve as assistant director for Baylor University Theatre productions as well as undertake a range of directing projects during their three years at Baylor. As Graduate Assistants, they will also be assigned various production and teaching responsibilities. The Master of Fine Arts program in directing offers a unique blend of theory and practice. Students in the program direct every semester of residency, practicing their craft in a diversity of forums, styles, genres, and spaces. The program culminates in a thesis project. Accompanying seminars and classes support an ongoing investigation and exploration of craft and process.

Admission

To qualify for admission into the graduate program in theatre arts, a student must have completed a minimum of eighteen semester hours of undergraduate study in theatre arts. The Master of Fine Arts degree does not have a foreign language requirement. Students applying for admission to the graduate program are expected to 1) meet all requirements for admission to the Baylor University Graduate School; 2) submit three letters of recommendation; 3) submit a resume which lists the plays he or she has directed, roles he or she has played and technical/design achievements; 4) submit a statement of purpose and professional goals; 5) submit a director’s analysis and conceptual statement of a selected play; 6) submit scores from the GRE General Test; and 7) secure a personal interview with a committee of faculty members from the Baylor University Department of Theatre. The interview will include a presentation of the prospective student’s directorial preparation of the pre-selected play and presentation of the student’s undergraduate and professional portfolio. The theatre arts faculty also reserves the right to require certain foundation courses, as well as advanced courses, according to the needs and specialization of the individual student. For further requirements, see the general graduate admission section of this catalog.

Requirements

The M.F.A. degree in directing is a sixty-one semester hour professional training program for disciplined and motivated students who are interested in becoming scholar artists.

All students in the M.F.A. program must design and direct a full length play for presentation during the summer following their first year of residency. Each student’s participation in the program will be evaluated at the end of this project. All students will present a final directing project, complete a written thesis, pass an oral defense of the thesis, and pass a written examination prior to receiving the M.F.A. The comprehensive examination is an assessment of each student’s accountability for course work. The exam is administered by the Department of Theatre Arts on a predetermined date at the end of the second year of matriculation and prior to the completion of the thesis. The examination will cover three major areas: 1) directing, 2) history and criticism, and 3) performance theory. All graduate students in theatre arts are required to take an active part in the production program of the department as partial fulfillment of the degree requirements.

Course Sequence:

Year One	
Summer Semester	
THEA 5101	Introduction to Graduate Theatre Studies
Fall Semester	
THEA 5351	Scholarship and Research Methods
THEA 5306	Play Analysis for Directors
THEA 5304	History and Theory of Directing
THEA 5308	Dramatic Theory and Criticism
<i>Diagnostic Scene</i>	

Spring Semester

- THEA 5313 Production Design
THEA 5310 Seminar in Classical Drama
THEA 5312 Directing Classical Plays

Year Two**Summer Semester**

- THEA 5335 Director's Workshop

Presentation of a full-length play

Fall Semester

- THEA 5301 Contemporary Directing Styles
THEA 5307 Contemporary Performance Theory
THEA 5376 Playwriting or
Elective

Spring Semester

- THEA 5311 Directing Modern Plays
THEA 5315 Seminar in Drama
THEA 4379 Advanced Studies in Contemporary Theatre and Drama or
THEA 5373 Dramaturgy

Comprehensive Exam

Year Three**Fall Semester**

- THEA 5398 Thesis Production and Research
THEA 5375 Actor-Director Collaboration
Elective

Spring Semester

- THEA 5V99 Thesis (6 sem. hrs.)
THEA 4379 Advanced Studies in Contemporary Theatre & Drama or
THEA 5373 Dramaturgy

Written Thesis and Defense

Affiliated Programs

**Health Care
Administration**

Nutrition

Physical Therapy

Occupational Therapy

**Orthopaedic Physical
Therapy**

**Orthopaedic Manual
Physical Therapy**

**Sports Medicine and
Primary Care**

**Emergency
Medicine**

**Clinical
Orthopaedics**



HEALTH CARE ADMINISTRATION

Program Director: Lee W. Bewley

The Master of Health Administration degree is awarded after sixty-six semester hours of study which includes five semesters of graduate courses, a comprehensive oral examination, a twelve-month administrative residency, and a graduate management portfolio (GMP). The objective of this program is to prepare students for a professional career in health services administration, with particular emphasis on middle and senior level management in federal health care systems. Through the course of study, students gain a broad knowledge of the theories, concepts, managerial tenets and techniques fundamental to effective administration of health care delivery.

Prerequisites and Admission Screening

Candidates for admission must hold either a baccalaureate degree or the first professional degree from an accredited college or university acceptable to Baylor University. Candidates must also demonstrate a capacity for rigorous graduate study. Applicants must present both a grade point average and current (i.e. within the past 5 years) score on the GRE General Exam (minimum score of 1050) or GMAT (minimum score of 525) that are predictive of success in this program. For further information regarding admission requirements and waivers, contact the Program Administrator at 210-221-6443.

The Master of Health Administration degree will be granted upon completion of graduate course work (one year), the comprehensive oral examination, the administrative residency (one year), and the GMP.

Class Composition and Curriculum

Each class is tri-service in composition, and most classes include Coast Guard, Department of Veterans Affairs, and Department of the Army civil servants. Class members typically include physicians, dentists, nurses, allied health professionals, and administrators, making the year an invaluable, multidisciplinary learning experience. The MHA program of study consists of 18 core courses and one required elective.

Curriculum

The sequence for the program is:

First Semester

17 sem. hrs.

HCA 5105	Ethics in Health Care
HCA 5301	U.S. Health Care Systems
HCA 5410	Quantitative Analysis I: Statistics and Research Methods for Health Care Administration
HCA 5336	Health Care Jurisprudence
HCA 5350	Finance I: Financial and Managerial Accounting in Health Care Organizations
MECO 5331	Managerial Economics

Second Semester

15 sem. hrs.

HCA 5231	Advanced Seminar in Human Resources Management
HCA 5391	Population Health and Homeland Security
HCA 5317	Health Management Information Systems
HCA 5353	Finance II: Financial Management of Health Care Organizations
MMGT 5460	Operations Management and Research

Third Semester**10 sem. hrs.**

HCA 5318	Finance III: Financial Applications
MMKT 5470	Marketing Management
HCA 5322	Organizational Behavior and Theory with Human Resources

Fourth Semester**11 sem. hrs.**

HCA 5213	Health Policy
HCA 5319	Current Issues in Health Care Quality
HCA 5329	Leadership in Complex Organizations
Elective	

Fifth Semester**4 sem. hrs.**

MMGT 5450	Strategic Management
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Residency**9 sem. hrs.**

HCA 5961	Administrative Residency
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NOTE: Electives are subject to change based on instructor availability. Students enrolled in the Army-Baylor MHA program may take electives from both the HCA and the MBA courses.

HCA 5191	Homeland Security and Disaster Relief
HCA 5304	Managed Care Law and Regulation
HCA 5312	Issues in International Health
HCA 5320	Advanced Statistical Applications in Health Care Delivery
HCA 5326	Health Care Facility Planning
HCA 5330	Health Care Contracting and Negotiations
HCA 5331	Advanced Seminar in Human Resources Management
HCA 5333	Provider Profiling
HCA 5334	Current Issues in Bioethics and Health Law
HCA 5339	Medical Informatics - Health Networks, Databases and Applications
HCA 5340	Selected Topics in Financial Management
HCA 5342	Health Applications in Networking
HCA 5344	Advanced Research Methods
HCA 5345	Productivity Issues in Health Services Administration
HCA 5354	Advanced Organizational Behavior and Theory
HCA 5355	War and Terrorism: Ethical and Legal Aspects of Military Service
HCA 5356	Organizational Ethics
HCA 5390	Consulting Practicum in Health Care Administration
HCA 5392	Special Studies in Health Care Administration*
*May be repeated with a different topic for up to 12 hrs. credit	
HCA 5961	Administrative Residency (July-July)
MECO 5330	Principles of Macroeconomics
MINB 5350	International Business
HCA 5411	Quantitative Analysis II: Decision Making with Statistics and Research Methods for Health Care Administration
MFIN 5340	Investments

Residency

Degree candidates are required to serve an administrative residency in a selected health care institution. During this residency, performed under the guidance of a qualified preceptor,

students study and analyze all the functional elements of the organization. They develop managerial skills through experience in the performance of administrative tasks and through direct participation in the problem-solving process. Additionally, students perform special studies as directed and conduct a portfolio of graduate management projects. Approval of proposed projects must be secured from the preceptor and the student's faculty advisor at the Academy of Health Sciences.

Joint Master of Health Administration/ Master of Business Administration (MHA/MBA)

Program Directors: Gary Carini, Associate Dean for Graduate Business Programs; LTC Lee W. Bewley, Director for the Army-Baylor Graduate Program in Health and Business Administration, Fort Sam Houston, TX.

Note: This MBA program is only open to eligible students enrolled in the Army-Baylor HCA graduate program.

Admissions

Students must apply and be accepted separately into both programs. A current (minimum 575) GMAT exam score is required for the MBA program. Candidates for admission must hold either a baccalaureate degree or the first professional degree from an accredited college or university acceptable to Baylor University. Candidates must also demonstrate a capacity for rigorous graduate study. Applicant's grade point average and GMAT scores must be predictive of success in this program. Applications must be submitted directly to the Army-Baylor Graduate Program. For further information regarding admission requirements and waivers, contact the Program Education Technician at 210-221-6443.

Requirements

Candidates must complete all degree requirements for the MBA and the MHA. The MHA requires the successful (passing) completion of 66 semester hours; the MBA program requires the successful completion of an additional 21 semester hours (for a total of 87 semester hours). The joint program requires a one-year residency and the successful completion of a portfolio of graduate management projects. Since MHA/MBA degrees are awarded simultaneously, all requirements in both programs must be completed in order to receive the joint degree.

Curriculum

First Semester

17 sem. hrs.

HCA 5105	Ethics in Health Care
HCA 5301	U.S. Health Care Systems
HCA 5410	Quantitative Analysis I: Statistics and Research Methods for Health Care Administration
HCA 5336	Health Care Jurisprudence
HCA 5350	Finance I: Financial and Managerial Accounting in Health Care Organizations
MECO 5331	Managerial Economics

Second Semester

18 sem. hrs.

HCA 5231	Advanced Seminar in Human Resources Management
HCA 5391	Population Health and Homeland Security
HCA 5317	Health Management Information Systems
HCA 5353	Finance II: Financial Management of Health Care Organizations

MMGT 5460 Operations Management & Research
MECO 5330 Principles of Macroeconomics

Third Semester	17 sem. hrs.
HCA 5318	Finance III: Financial Applications
HCA 5322	Organizational Behavior and Theory with Human Resources
HCA 5330	Health Care Contracting and Negotiations
MINB 5450	International Business
MMKT 5470	Marketing Management

Fourth Semester	18 sem. hrs.
HCA 5213	Health Policy
HCA 5411	Quantitative Analysis II: Decision Making with Statistics and Research Methods for Health Care Administration
HCA 5319	Current Issues in Health Care Quality
HCA 5329	Leadership in Complex Organizations
MBL 5110	Selected Topics in Business Law
MBUS 5220	Organizational Ethics
MFIN 5340	Investments

Fifth Semester	8 sem. hrs.
MMGT 5450	Strategic Management
MECO 5132	Macroeconomics - Global Economics
MECO 5133	Seminar – World Economic Systems
MMGT 5162	Seminar – International Management
MMKT 5171	Seminar – International Marketing

Residency	9 sem. hrs.
HCA 5961	Administrative Residency

NUTRITION
Master of Science

Program Director: Lori Sigrist

The U.S. Military-Baylor University Master’s Program in Nutrition is responsible for preparing innovative dietitians for current and future military roles, with an emphasis on military readiness. The program lasts 12 months and consists of 38 core hours (includes 9 hours of research) and up to 16 additional elective hours, which must be selected from the MS curriculum. The research component of the program is completed at a military medical treatment facility or medical activity under the guidance of a Ph.D.-credentialed mentor. Upon successful program completion, the student will be awarded a Master of Science from Baylor University.

The practice for Army dietitians is ever expanding. Army dietitians have a broader scope of practice than their civilian counterparts and require proficiency in multiple areas. Through the course of study, students will gain in-depth knowledge in three focus areas: critical care (burns and trauma), nutrition and performance, and international nutrition (humanitarian missions).

Admission

Candidates for admission must hold a baccalaureate degree from an accredited college or university and have completed a Didactic Program in Dietetics (DPD) approved by the Commission on Accreditation for Dietetics Education. Candidates must also demonstrate a capacity for rigorous graduate study. Applicants must present a grade point average and scores on the GRE that are predictive of success in this program. For further information regarding admission requirements and waivers, contact the Program Director at 210-221-6305. Candidates must also meet the entrance requirements of the Graduate School of Baylor University. In addition, they must be a U.S. citizen and meet the medical fitness standards as prescribed by the Department on the Army. They must demonstrate a capacity for graduate study as well as interest necessary to ensure productive scholarship.

The Master of Science degree will be granted upon completion of the program of graduate course work (one year), the comprehensive examination, and the research thesis or research project.

Curriculum

The sequence for the program is:

First Semester

22 sem. hrs.

MPN 5304	Biochemistry
MPN 5502	Advanced Anatomy and Physiology
MPN 5401	Research Methods I
MPN 5308	Leader and Management Development
MPN 5301	Medical Nutrition Therapy
MPN 5305	Protocol Development
MPN 5102	Current Issues in Nutrition I

Second Semester

23 sem. hrs.

MPN 5302	Advanced Nutrition and Critical Care
MPN 5207	Weight Management
MPN 5202	Vitamin and Mineral Metabolism
MPN 5306	Nutrition and Performance
MPN 5303	Research Methods II
MPN 5501	Advanced Nutrition Assessment with Lab
MPN 5307	Nutrition in Stability Operations
MPN 5205	Force Health Protection

Third Semester

9 sem. hrs.

MPN 5V99	Master's Thesis, or
MPN 5V98	Master's Research Project

PHYSICAL THERAPY

Doctoral Entry-Level Program (DPT)

Program Director: Josef H. Moore

Through an affiliation with Baylor University, students enrolled in the Physical Therapy Program at the Academy of Health Sciences, U.S. Army, Fort Sam Houston, Texas, may qualify for a Doctor of Physical Therapy degree. Students are commissioned officers in one of the three uniformed services: Army, Air Force, and Navy. Due to the students' active duty obligations and association with the uniformed services, certain policies and procedures governing students are unique to this program and may be found in the most current Student Handbook published by this graduate program.

Objectives

The program mission is to produce active duty physical therapists for the United States Uniformed Services – Army, Air Force, and Navy. Uniformed service therapists are generalist practitioners who may be assigned across the continuum of care in a variety of practice settings. However, the majority of these therapists are working in a primary care role with an emphasis in evaluation and intervention for patients with neuromusculoskeletal problems. The program provides students with the knowledge, skills, problem solving ability, duties, responsibilities, and ethics to deliver quality physical therapy patient care and provides those concepts, principles, methods, and role models which will stimulate the continuous personal and professional growth of these physical therapy officers. Students are commissioned in the Army Medical Specialist Corps, the Navy Medical Service Corps, or the Air Force Biomedical Sciences Corps.

Admission

Candidates for admission to the program in physical therapy must hold a baccalaureate degree in either the arts or sciences from a college or university acceptable to Baylor University. Applicants must present a grade point average and scores on the GRE General Exam that are predictive of success in this program. Required science prerequisites include: three semester hours Biological Science; three-four semester hours Human Anatomy with lab; three-four semester hours Physiology; eight semester hours Chemistry with lab; eight semester hours Physics with lab; nine semester hours Behavioral Sciences (at least two courses in Psychology), and three semester hours Statistics. Candidates must also meet the entrance requirements of the Graduate School of Baylor University. In addition, they should be less than forty-eight years of age, be a U.S. citizen, and meet the medical fitness standards as prescribed by the Departments of the Army, Air Force, and the Navy. They must demonstrate a capacity for graduate study as well as the interest necessary to ensure productive scholarship. This program has no foreign language requirement.

Curriculum

The four-semester curriculum includes outlined academic courses and clinical experience, a research project, and a comprehensive oral examination.

Semester I	27 sem. hrs.
PT 6120	Evidenced Based Practice I
PT 6153	Orthotic and Prosthetic Interventions
PT 6230	Neuromuscular Physiology
PT 6231	Clinical Pathophysiology
PT 6240	Clinical Medicine I
PT 6250	Introduction to Therapeutic Intervention
PT 6252	Physical Agent Interventions
PT 6300	Physical Therapy Fundamentals
PT 6310	Anatomy I
PT 6470	Research Methods I
PT 6501	Musculoskeletal Physical Therapy I – Lower Member
Semester II	27 sem. hrs.
PT 6107	Emerging Topics in Physical Therapy
PT 6121	Evidenced Based Practice II
PT 6151	Pharmacology for Physical Therapists
PT 6204	Diagnostic Imaging and Procedures
PT 6241	Clinical Medicine II
PT 6402	Musculoskeletal Physical Therapy II – Spine

PT 6411	Anatomy II
PT 6503	Musculoskeletal Physical Therapy II- Upper Member
PT 6760	Physical Therapy Practice I

Semester III	30 sem. hrs.
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PT 6122	Evidenced Based Practice III
PT 6142	Clinical Medicine III
PT 6182	Injury Control and Prevention
PT 6206	Cardiopulmonary Physical Therapy
PT 6208	Lifespan Physical Therapy
PT 6209	Primary Care Musculoskeletal Physical Therapy
PT 6212	Neuroanatomy
PT 6232	Physiology of the Oxygen Delivery System
PT 6280	Executive Skills for Physical Therapists
PT 6281	Physical Therapy in Deployed Environments
PT 6313	Neuroscience
PT 6354	Advanced Therapeutic Interventions
PT 6371	Research Methods II
PT 6405	Neuromuscular Physical Therapy

Semester IV	40 sem. hrs.
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PT 6V98	Physical Therapy Internship
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Total	124 sem. hrs.
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DOCTOR OF SCIENCE IN OCCUPATIONAL THERAPY

**Brooke Army Medical Center
Fort Sam Houston, Texas**

Program Director: Robinette J. Amaker

Deputy Program Director: Ricky Joseph

In Fall 2009, Baylor University and the U.S. Army Medical Department Center and School (AMEDDC&S) established the Doctor of Science in Occupational Therapy degree (DScOT). This degree is an advanced-practice postprofessional clinical doctorate designed to meet the professional development and specialty needs of Army occupational therapists. The program focuses on four pillars of foundational content: Behavioral Health, Warrior Rehabilitation, Advanced Practice, and Research. Graduates of this program will be able to advance the practice of occupational therapy and expand the scope of care provided warriors and military healthcare beneficiaries through the application of evidence-based practice and research.

The DScOT, a full-time 63-hour curriculum of didactic study and clinical rotations, is offered at Fort Sam Houston, Brooke Army Medical Center, in San Antonio, Texas. The 18-month curriculum begins in July, with graduation in December of the following year.

Admissions requirements include the following:

- Master's or baccalaureate degree in occupational therapy from an Accreditation Council for Occupational Therapy Education (ACOTE)-accredited program. Applicants with a baccalaureate degree in occupational therapy, but lacking a master's degree, must have acquired 9 or more credit hours of post-professional clinical graduate credits to qualify

for entry consideration. These credit hours are admissions requirements, not credits for transfer. Applicants with a baccalaureate degree in occupational therapy also must have at least 3 years of professional experience.

- State license to practice occupational therapy
- Cumulative GPA of 3.0 (total undergraduate and post-baccalaureate hours)
- GRE scores predictive of success in the program
- Be a U.S. citizen
- Must meet U.S. Army medical and physical standards
- Must be under the age of 41 unless having previously served in the Department of Defense.

The curriculum is structured as follows:

Semester I (July-November)

- MOT 6311 Evaluation and Intervention: Behavioral Health
- MOT 6112 Behavioral Health Residency
- MOT 6113 Evaluation and Intervention: Post Traumatic Stress
- MOT 6114 Post Traumatic Stress Residency
- MOT 6315 Management of Combat and Operational Stress Control
- MOT 6116 Management of Combat and Operational Stress Control Residency
- MOT 6317 Qualitative Methods
- MOT 6118 Occupational Therapy and Warrior Transition Units I
- MOT 6319 Essentials of Evidence-based Practice and Clinical Research

Semester II (December-April)

- MOT 6321 Cultural Awareness
- MOT 6322 Differential Diagnosis in Occupational Therapy
- MOT 6323 Evaluation and Intervention: Amputee Rehabilitation
- MOT 6124 Amputee Rehabilitation Residency
- MOT 6325 Evaluation and Intervention: Ergonomics
- MOT 6126 Occupational Therapy and Warrior Transition Units II
- MOT 6327 Quantitative Methods
- MOT 6228 Occupation-Centered Practice

Semester III (May-August)

- MOT 6331 Evaluation and Intervention: Burn & Trauma Rehabilitation
- MOT 6132 Burn and Trauma Residency
- MOT 6333 Evaluation and Intervention: Traumatic Brain Injury
- MOT 6134 Traumatic Brain Injury Residency
- MOT 6135 Occupational Therapy and Warrior Transition Units III
- MOT 6336 Aspects of Pharmacology, Complementary and Alternative Medicine, and Nutrition in Occupational Therapy
- MOT 6337 Field Research in Occupational Therapy

Semester IV (September-December)

- MOT 6341 Evaluation and Treatment of Upper Extremity Conditions
- MOT 6342 Upper Extremity Conditions Residency
- MOT 6243 Advanced Hand Surgery Outcomes for Occupational Therapists
- MOT 6344 Advanced Professional Paper Project

The DScOT program requires the completion of an evidence-based research project. During the final month of the course of study, each resident will present the results of the research project in written and oral form. The results of the project will be presented at an appropriate national conference and the manuscript will be submitted to a peer-reviewed journal for publication.

ORTHOPAEDIC PHYSICAL THERAPY

Post-Professional Doctoral Fellowship/Residency Programs (DScPT)

Baylor University offers the Doctor of Science in Physical Therapy (DScPT) degree, with a major in Orthopaedics, in affiliation with the U.S. Army at two locations. The concentration for the program offered at Brooke Army Medical Center, Fort Sam Houston in San Antonio, Texas, is Orthopaedic Manual Physical Therapy. For the program offered at Keller Army Community Hospital at the United States Military Academy, West Point, New York, the concentration is Sports Medicine and Primary Care.

The curricula at both sites last approximately 18 months. Cohorts enter the program at Brooke Army Medical Center in July of odd-numbered years and, at West Point, in July of even-numbered years, ending in December of the following year.

ORTHOPAEDIC MANUAL PHYSICAL THERAPY

Brooke Army Medical Center

Fort Sam Houston, Texas

Program Director: Norman W. Gill III

Through an affiliation with Baylor University, students enrolled in the U.S. Army Orthopaedic Manual Physical Therapy Fellowship at Brooke Army Medical Center, Fort Sam Houston, Texas, complete additional requirements and may qualify for a Doctor of Science in Physical Therapy degree. The Graduate School of Baylor University provides academic oversight for the program. The uniqueness of this program necessitates significant differences in policies and procedures. Please refer to the most current Student Handbook published by this graduate program for details.

Objectives

Our mission is to produce postgraduate-level, specialty-trained orthopaedic manual physical therapists who provide state-of-the-art, advanced care and clinically relevant research to benefit the Military Health System. We accomplish this through the advanced training and education of clinical experts, mentors, adult educators, and researchers. Our goal is to continue the U.S. Army's legacy as a leader in orthopaedic manual physical therapy and neuromusculoskeletal evaluation, and to promote evidenced-based clinical practice and research that benefits patients and the physical therapy profession.

Admission

Candidates for admission to the program must hold a master's degree in physical therapy from a program accredited by the Commission on the Accreditation of Physical Therapy Education. They must have a minimum of four years' experience in orthopaedic physical therapy upon entry into the program. Applicants must present a grade point average and scores on the GRE General Exam that are predictive of success in this program. Candidates must also meet the entrance requirements of the Graduate School of Baylor University. Uniformed services candidates are selected by a competitive board process by their respective uniformed service.

Curriculum

The curriculum was developed as a clinical fellowship in orthopaedic manual physical therapy based on the Description of Advanced Specialty Practice (DASP) in Orthopaedic Manual Physical Therapy by the American Academy of Orthopaedic Manual Physical Therapists.

The training focuses on an advanced clinical reasoning model with emphasis on a patient-focused, hypothesis-based examination and careful observation of the effects of physical therapy intervention. The academic curriculum emphasizes anatomy, biomechanics, and physiology, with a foundation in clinical research and critical review of the literature. The program was credentialled as a residency by the American Physical Therapy Association in September of 1999, and as a fellowship in 2004. It is recognized by the American Academy of Orthopaedic Manual Physical Therapists. The sixty semester-hour program is divided into four semesters. Fellows are required to complete an individual research project, approved by an institutional review board, and submit the study for publication in an indexed peer-reviewed journal prior to graduation. The Doctor of Science in Physical Therapy degree will be granted upon successful completion of all credit courses, plus successful completion of an oral defense of their research project.

Semester I

14 sem. hrs.

PHT 6191	Independent Study I
PHT 6391	Clinical Residency I
PHT 5241	Differential Diagnosis in Orthopaedic Physical Therapy
PHT 5326	Functional Physical Therapy Anatomy and Biomechanics: Lower Quarter
PHT 5382	Evaluation and Mobilization: Lower Quarter
PHT 5230	Essentials of Evidence-based Practice and Clinical Research

Semester II

16 sem. hrs.

PHT 6192	Independent Study II
PHT 6392	Clinical Residency II
PHT 5331	Quantitative Evaluation
PHT 5327	Functional Physical Therapy Anatomy and Biomechanics: Upper Quarter
PHT 5383	Evaluation and Mobilization: Upper Quarter
PHT 5323	Pathophysiology of Therapeutic Exercise

Semester III

14 sem. hrs.

PHT 6193	Independent Study III
PHT 6393	Clinical Residency III
PHT 6332	Field Research in Physical Therapy
PHT 5321	Aspects of Pharmacology and Nutrition in Physical Therapy
PHT 5392	Evaluation and Mobilization: Advanced Lower Quarter
PHT 5191	Special Topics: Seminar I

Semester IV

16 sem. hrs.

PHT 6194	Independent Study IV
PHT 6394	Clinical Residency IV
PHT 6333	Advanced Professional Paper Project
PHT 5393	Evaluation and Mobilization: Advanced Upper Quarter
PHT 5349	Radiology for Physical Therapists
PHT 6101	Advanced Practicum in Physical Therapy
PHT 6111	Advanced Orthopaedic/Sports Medicine and Surgery for Physical Therapists
PHT 5192	Special Topics: Seminar II

SPORTS MEDICINE AND PRIMARY CARE

Keller Army Community Hospital

West Point, New York

Program Director: J. Parry Gerber

Through an affiliation with Baylor University, students enrolled in the U.S. Military Sports Medicine Physical Therapy Residency at Keller Army Community Hospital, West Point, New York, may qualify for a Doctor of Science in Physical Therapy degree in Orthopaedics, specializing in Sports Medicine. Residents are commissioned officers in one of the four uniformed services: Army, Navy, Air Force, and Public Health Service. Due to active duty obligations and association with the uniformed services, certain policies and procedures governing residents are unique in this program and may be found in the most current Policy and Procedure Manual published by this graduate program.

Objectives

The program mission is to produce active duty, post-graduate-level specialty trained physical therapists as clinical scientists in the area of sports medicine, who provide evidenced based primary care to beneficiaries of the Military Health System. Our focus is accomplished through two primary purposes. The first is to produce graduates with expertise in evidenced based primary care for preventing, examining, diagnosing, and managing a variety of complex orthopaedic and sports injuries. The second is to ensure competency in sports medicine research design, production, analysis, and critical review. The residency provides military physical therapists an opportunity to develop advanced competencies in triage and management of acute sports injuries while at the United States Military Academy, West Point, New York. Graduates will use these same competencies to return injured soldiers to a high level of military technical and tactical readiness. The concepts for managing injured elite athletes and returning them to the playing field as quickly and safely as possible shares the same common goal of returning injured soldiers to their units in garrison or combat, thereby preparing residents for “Sports Medicine on the Battlefield operational readiness through injury prevention and early intervention.”

Admission

Candidates for admission to the program must hold a master’s degree in physical therapy from a program accredited by the Commission on the Accreditation of Physical Therapy Education. They must have a minimum of four years of experience in orthopaedic physical therapy upon entry into the program. The GRE General Test is required of all applicants, with a score predictive of success in this program. Candidates must also meet the entrance requirements of the Graduate School of Baylor University. Candidates are selected by a competitive board process by their respective uniformed service. All candidates must accept an active duty service obligation to remain on active duty after completion of the program.

Curriculum

The medical community nationwide recognizes the United States Military Academy at West Point as one of the forerunners in the surgical and rehabilitative management of athletic injuries. Experienced orthopedists, physical therapists, and athletic trainers currently work together to provide the best care possible to the cadet student-athletes. To this end, the curriculum focuses on an advanced clinical reasoning model with emphasis on acute primary care management. The academic curriculum emphasizes anatomy, biomechanics, physiology, and athletic injury management, with a strong foundation in clinical research and critical review of the literature. The program was credentialed by the American Physical

Therapy Association in June of 1999. The primary intent is to make the residency the leading institution in sports medicine research. The sixty semester-hour program is divided into four semesters. All residents are required to complete an individual research project, and submit the study for publication in an indexed peer-reviewed journal prior to graduation.

Semester I **16 sem. hrs.**

PHT 6387	Research & Statistics I
PHT 6310	Soft Tissue and Bone Pathophysiology
PHT 6320	Athletic Injuries I
PHT 6391	Clinical Residency I
PHT 6340	Functional Anatomy and Biomechanics I
PHT 6150	Orthopaedic Lecture Series I

Semester II **16 sem. hrs.**

PHT 6388	Research & Statistics II
PHT 6321	Athletic Injuries II
PHT 6392	Clinical Residency II
PHT 6341	Functional Anatomy and Biomechanics II
PHT 6151	Orthopaedic Lecture Series II
PHT 6395	Advanced Sports Medicine Practicum I

Semester III **14 sem. hrs.**

PHT 6389	Research & Statistics III
PHT 6393	Clinical Residency III
PHT 6396	Advanced Sports Medicine Practicum II
PHT 6292	Special Topics: Seminar I
PHT 6379	Advanced Radiology in Sports Medicine

Semester IV **14 sem. hrs.**

PHT 6394	Clinical Residency IV
PHT 6152	Orthopaedic Lecture Series III
PHT 6397	Advanced Sports Medicine Practicum III
PHT 6293	Special Topics: Seminar II
PHT 6384	Independent Study
PHT 6294	Differential Diagnosis in Sports Medicine

DOCTOR OF SCIENCE IN PHYSICIAN ASSISTANT STUDIES—EMERGENCY MEDICINE

Director, Postgraduate Physician Assistant Education: Leonard Gruppo

Army/Baylor Program Director: Sue E. Love

Program Director, Brooke Army Medical Center: Richard Anschutz

Program Director, Madigan Army Medical Center: Kenneth Hyde

Program Director, Carl Darnall Army Medical Center: Aaron Kidd

In Fall 2007 Baylor University, in affiliation with the U.S. Army, established a new degree program, the Doctor of Science in Physician Assistant Studies (DScPA), with the major in Emergency Medicine. This professional doctoral degree is new to the discipline of physician assistant studies. The program of study consists of 18 months of didactic study, clinical experience, and clinically oriented research conducted in a professional residency setting. The Baylor-Army DScPA is offered at Brooke Army Medical Center (BAMC), Ft. Sam Houston in San Antonio, Texas, Madigan Army Medical Center, Ft. Lewis in Tacoma, Washington, Carl Darnall Army Medical Center, Fort Hood in Killeen, Texas, and William Beaumont Army Medical Center, Ft. Bliss, El Paso, Texas.

Objectives

The vision of the U.S. Army Emergency Medicine Physician Assistant Residency is to create the benchmark for postgraduate emergency medicine Physician Assistant education through the pursuit of academic and clinical excellence. The program achieves this vision by developing clinical scientists who are prepared to conduct advanced scientific research, as well as to provide quality emergency care for patients with a wide variety of illnesses and injuries in the emergency department and in any world-wide contingency. The clinical scientists graduating from this program will become future leaders and mentors by establishing scholarly excellence for the physician assistant profession.

The U.S. Army Emergency Medicine Physician Assistant Residency provides advanced education and training, further enhancing the abilities of clinicians to save soldiers' lives on the battlefield, to serve Military Health System beneficiaries, to augment and extend physicians, and to improve recruiting and retention through unique professional development opportunities. The program produces graduates with expertise in evidence-based emergency care for examining, diagnosing, and managing a variety of life-threatening injuries and illnesses. The curriculum is structured to develop competency in research design, production, analysis, and critical review. Graduates will use competencies in triage and management of emergency medical conditions and injuries to stabilize critically ill or injured soldiers on the battlefield in preparation for transportation to higher echelons of care.

Admission

Candidates for admission must hold a master's degree in physician assistant studies and be active-duty members of the U.S. military for a minimum of four years upon beginning the program. Applicants must have a grade point average 3.0 or above and obtain a score on the GRE general exam that is predictive of success. Candidates must have a minimum of two years time on station prior to the start date of the residency or if Outside the Continental United States (OCONUS) must have served within 60 days of their prescribed tour. Applicants must also agree to incur a 3.5 year Active Duty Service Obligation (ADSO). Candidates must also meet the entrance requirements of the Graduate School of Baylor University. Uniformed-services candidates are selected by a competitive board process by their respective uniformed service.

Curriculum

The 18-month curriculum totals 88 semester credit hours and consists of 16 didactic sections (representing approximately 740 hours of classroom instruction), 20 clinical rotations (4,300 clinical training hours), and a research project. Midterm and final board examinations, including both written and oral evaluation, are based on the standards set by the American Board of Emergency Medicine.

The *didactic portion*, comprising 32 credit hours, consists of 16 courses on an array of emergency-medicine topics. Each course carries two semester hours of credit:

MEM 6210	Introduction to Emergency Medicine-Resuscitation, Shock, and Anesthesia
MEM 6211	Emergency Medicine of Orthopaedic Injuries, Emergency Ultrasound, and Emergency Radiology
MEM 6212	Toxicology and Oral Maxillary Facial Disorders
MEM 6213	Cardiovascular, Pulmonary, Hematologic, Oncologic, and Psychosocial Diseases and Disorders
MEM 6214	Gastrointestinal, Genitourinary, Obstetrics and Gynecologic Diseases
MEM 6215	Pediatrics, Non-Traumatic Musculoskeletal Disorders, Abuse, and Assault

MEM 6216	Emergency Wound Management, Environmental Injuries, Trauma
MEM 6217	Infectious Disease, Endocrinology, and Neurology
MEM 6220	Advanced Emergency Medicine, Resuscitation, Shock, and Anesthesia
MEM 6221	Advanced Emergency Treatment of Orthopaedic Injuries, Emergency Ultrasound, and Emergency Radiology
MEM 6222	Advanced Toxicology and Oral Maxillary Facial Disorders
MEM 6223	Advanced Cardiovascular, Pulmonary, Hematologic, Oncologic, and Psychosocial Diseases and Disorders
MEM 6224	Advanced Gastrointestinal, Genitourinary, Obstetrics, and Gynecologic Diseases
MEM 6225	Advanced Pediatrics, Non-Traumatic Musculoskeletal Disorders, Abuse, and Assault
MEM 6226	Advanced Emergency Wound Management, Environmental Injuries, and Trauma
MEM 6227	Advanced Infectious Disease, Endocrinology, and Neurology

The remaining 56 credit hours are earned through *clinical rotations*. These consist of eight emergency-department rotations (1472 clinical hours), four intensive-care rotations (1280 clinical hours), one trauma surgery rotation (320 clinical hours), two pediatric rotations (640 clinical hours), one toxicology rotation (80 clinical hours), one radiology/ultrasound rotation (160 clinical hours), one oral maxillofacial rotation (80 clinical hours), two elective rotations (240 clinical hours), and a dedicated research block (240 clinical hours):

MEM 6330	Orientation to Emergency Medicine	3 credit hours
MEM 6231	Emergency Department 1	2 credit hours
MEM 6232	Emergency Department 2	2 credit hours
MEM 6233	Emergency Department 3	2 credit hours
MEM 6234	Emergency Department 4	2 credit hours
MEM 6235	Emergency Department 5	2 credit hours
MEM 6336	Emergency Department 6	3 credit hours
MEM 6337	Emergency Department 7	3 credit hours
MEM 6338	Emergency Department 8	3 credit hours
MEM 6439	Pediatrics, Emergency Department	4 credit hours
MEM 6440	Pediatrics, Emergency Department and Pediatric Intensive Care Unit	4 credit hours
MEM 6341	Elective Concentration	3 credit hours
MEM 6142	Radiology	1 credit hour
MEM 6143	Oral Maxillary Facial Surgery	1 credit hour
MEM 6144	Toxicology	1 credit hour
MEM 6145	Emergency Ultrasound	1 credit hour
MEM 6346	Clinical Research	3 credit hours
MEM 6447	Surgical Intensive Care Unit (SICU)	4 credit hours
MEM 6448	Medical Intensive Care Unit (MICU)	4 credit hours
MEM 6449	Cardiac Care Unit (CCU)	4 credit hours
MEM 6450	Trauma Surgery	4 credit hours

Each physician-assistant resident is required to initiate and complete a research project, approved by the Internal Review Board (IRB), during their 18-month curriculum. During the final month of the course of study, each resident will present the results of the research project in written and oral form and defend the project before a doctoral examining committee. The examining committee is chaired by the program director and includes three additional program faculty and a faculty member from the Baylor-Waco campus. A manuscript from the completed project will be submitted to an indexed, peer-reviewed journal for publication.

DOCTOR OF SCIENCE IN PHYSICIAN ASSISTANT STUDIES—CLINICAL ORTHOPAEDICS

Director, Postgraduate Physician Assistant Education: Leonard Gruppo

Army/Baylor Program Director: Craig V. Paige

In Fall 2008 Baylor University, in affiliation with the U.S. Army, established a new degree program, the Doctor of Science in Physician Assistant Studies, with the major in Clinical Orthopaedics (DScPAS). The program of study consists of 18 months of didactic study, clinical experience, and clinically oriented research conducted in a professional residency setting. The Baylor-Army DScPAS residency in Clinical Orthopaedics is offered at William Beaumont Army Medical Center, Ft. Bliss in El Paso, Texas; Brooke Army Medical Center, Ft. Sam Houston in San Antonio, Texas; and Madigan Army Medical Center, Ft. Lewis in Tacoma, Washington.

Objectives

The vision of the U.S. Army Clinical Orthopaedic Physician Assistant Residency is to create the benchmark for post-graduate orthopaedic physician assistant education through the pursuit of academic and clinical excellence. This residency provides Army physician assistants opportunity to develop advanced competencies in both operative assistance and non-operative management of musculoskeletal conditions. Graduates of the program will possess expertise in evidence-based orthopaedic care and advanced skills in history taking and physical examination, diagnostics, special testing, and management of a variety of non-operative musculoskeletal injuries and conditions in an outpatient setting and on the battlefield. Residents will demonstrate competency in research design, methods, analysis and critical review. Graduates will be prepared to function as clinical scientists and will become future leaders and mentors by setting the standard of scholarly excellence for physician assistants worldwide.

Admission

Candidates for admission must hold a Master's Degree in Physician Assistant Studies and be active-duty members of the U.S. Army. Applicants must present a competitive undergraduate grade point average and scores on the GRE General Exam that are predictive of success in this program. Candidates must also meet all Baylor University Graduate School entrance requirements. Fully qualified candidates are competitively board-selected for a limited number of program spots.

Curriculum

The 18-month curriculum totals 88 semester credit hours. The didactic portion comprises 36 courses (59 credit hours representing over 700 hours of classroom instruction), 9 clinical rotations (29 credit hours representing more than 3,900 clinical training hours in academic hospitals), and a research project. Midterm and final board examinations, including both written and oral evaluation, are based on the standards set by the Accreditation Council for Graduate Medical Education (ACGME).

The curriculum includes the following courses and clinical rotations scheduled in two phases:

PHASE I—1st 6 months

MCO 6201	Biomechanics of Fractures Fixation and Classification of Fractures
MCO 6202	The Multiply-Injured Patient with Musculoskeletal Injuries and Anesthetic Care of the Trauma Patient

MCO 6203	Non-Operative Fracture Treatment
MCO 6204	Principles of Internal and External Fixation
MCO 6205	Musculoskeletal Healing, Vascular Injuries and Compartment Syndromes
MCO 6206	Penetrating Trauma / Bone and Soft Tissue Reconstruction
MCO 6207	War Wounds, Limb Salvage, and Traumatic Amputations and Periprosthetic Fractures
MCO 6208	Complications of Injury to the Musculoskeletal System
MCO 6209	Fractures and Dislocations of the Hand and Wrist
MCO 6210	Fractures of the Radial and Ulnar Shafts and Isolated Distal Radius Fractures
MCO 6211	Fractures and Dislocations of the Elbow and Distal Humerus
MCO 6212	Subluxations and Dislocations about the Glenohumeral, Acromioclavicular, and Sternoclavicular Joints
MCO 6213	Fractures of the Shaft and Proximal Humerus
MCO 6214	Fractures of the Clavicle and Scapula
MCO 6215	Fractures of the Pelvic Ring and Acetabulum
MCO 6216	Femoral Head and Neck Fractures / Intertrochanteric Fractures and Hip Dislocations
MCO 6217	Subtrochanteric Fractures and Fractures of the Shaft of the Femur
MCO 6218	Fractures of the Proximal Tibia, Fibula, and Patella
MCO 6219	Knee Injuries and Fractures of the Tibia and Fibula
MCO 6220	Ankle Fractures and Fractures of the Talus
MCO 6221	Fractures and Dislocations of the Midfoot, Forefoot, and Calcaneous

PHASE II—Months 7 through 18 (1 year duration)

Didactic Portion

MCO 6140	Articular Injuries of the Knee
MCO 6141	Anterior Knee Pain and Patello-femoral Joint Instability
MCO 6142	Genetics I and II, Developmental Dysplasia of the Hip (DDH), Legg-Calve-Perthes Disease and Slipped Capital Femoral Epiphysis (SCFE)
MCO 6143	Orthopaedic Surgery in the Immunocompromised Patient
MCO 6144	Osteoarthritis
MCO 6145	Benign Bone Tumors
MCO 6146	Prioritization and Management of the Polytrauma Patient
MCO 6147	Ligamentous Injuries of the Foot and Ankle
MCO 6148	Knee Ligament and Meniscal Injuries, Epidemiology, Mechanism, Diagnosis, and Natural History
MCO 6150	Diagnosis and Management of Musculoskeletal Infection
MCO 6151	Overview of Arthritis
MCO 6152	Pathophysiology of Bone Tumors
MCO 6153	Orthopaedic Sports Medicine
MCO 6154	Spinal Pain
MCO 6346	Clinical Research

Practical Clinical Rotations

MCO 6301	Foot and Ankle Practical Rotation
MCO 6302	Orthopaedic Spine Rotation
MCO 6303	Pediatric Orthopaedic Surgery Rotation
MCO 6304	Orthopaedic Total Joint Rotation
MCO 6305	Orthopaedic Hand Surgery Rotation
MCO 6306	Orthopaedic Tumor Rotation
MCO 6307	Podiatry / Physical Medicine Elective Rotation
MCO 6401	Orthopaedic Sports Rotation
MCO 6402	Orthopaedic Trauma Rotation

Each physician-assistant resident is required to initiate and complete a research project, approved by the Institutional Review Board (IRB), during their 18-month curriculum. The initial two weeks of program instruction focus on preparing new residents for this project; introduction to statistical analysis, developing a research question, and submitting a research protocol are just a few topics discussed in detail. During the final month of the course of study, each resident will present the results of the research project in written and oral form and defend the project before a doctoral examining committee. The examining committee is chaired by the program director and includes three additional program faculty and a faculty member from the Baylor-Waco campus. A manuscript from the completed project will be submitted to an indexed, peer-reviewed journal for publication.



Courses of Instruction

PREFIXES FOR COURSES OF INSTRUCTION

Courses are arranged alphabetically by Prefix within each section

GENERAL COURSES

Accounting.....	ACC	Greek.....	GKB, GKC
African Studies.....	AFS	Health Education.....	HED
Akkadian.....	AKK	Healthcare Policy and Administration.....	HPA
American Studies.....	AMS	Hebrew.....	HEB
Anthropology.....	ANT	History.....	HIS
Aramaic.....	ARA	Human Performance.....	HP
Archaeology.....	ARC	Information Security.....	ISEC
Art.....	ART	International Business.....	INB
Asian Studies.....	AST	Journalism.....	JOU
Aviation Sciences.....	AVS	Latin.....	LAT
Biomedical Engineering.....	BME	Latin American Studies.....	LAS
Biomedical Studies.....	BMS	Management.....	MGT, MMGT
Biology.....	BIO	Management Information Systems.....	MIS
Business.....	BUS, MBUS	Marketing.....	MKT, MMKT
Business Law.....	BL, MBL	Mathematics.....	MTH
Chemistry.....	CHE	Mechanical Engineering.....	ME
Chinese.....	CHI	Medical Humanities.....	MH
Church-State Studies.....	CHS	Middle East Studies.....	MES
Classics.....	CLA	Modern Foreign Languages.....	MFL
Communication Sciences and Disorders.....	CSD	Museum Studies.....	MST
Computer Science.....	CSI	Music.....	MUS
Curriculum and Instruction.....	EDC	Neuroscience.....	NSC
Danish.....	DAN	Nursing.....	NUR
Economics.....	ECO, MECO	Philosophy.....	PHI
Educational Administration.....	EDA	Physics.....	PHY
Educational Psychology.....	EDP	Political Science.....	PSC
Electrical and Computer Engineering.....	ELC	Psychology.....	PSY
Engineering.....	EGR	Quantitative Business Analysis.....	QBA
English.....	ENG	Real Estate.....	RE
Entrepreneurship.....	ENT	Recreation and Leisure Services.....	RLS
Environmental Studies.....	ENV	Religion.....	REL
Exercise, Nutrition and Preventive Health.....	ENH	Risk Management and Insurance.....	RMI
Family and Consumer Sciences.....	FCS	Slavic and Eastern European Studies.....	SEES
Film and Digital Media.....	FDM	Sociology.....	SOC
Finance.....	FIN	Spanish.....	SPA
Forensic Science.....	FORS	Speech Communication.....	CSS
French.....	FRE	Statistics.....	STA
Geography.....	GEOG	Syriac.....	SYR
Geology.....	GEO	Teacher Education.....	TED
German.....	GER	Theater Arts.....	THEA
Gerontology.....	GRT	Ugaritic.....	UGA
Graduate.....	GRD		

AFFILIATED PROGRAMS

Baylor Doctor Physical Therapy.....	BDPT	Masters Program Nutrition.....	MPN
Clinical Orthopaedics.....	MCO	Military Occupational Therapy.....	MOT
Emergency Medicine.....	MEM	Physical Therapy.....	PT
Health Care Administration.....	HCA	Physical Therapy/Doctoral.....	PHT

ACCOUNTING (ACC)

5121 Accounting Planning

Prerequisite(s): Admission to MBA program.

Technical accounting concepts that students must master in order to plan an operation effectively. These topics, typically identified as managerial accounting, include traditional cost allocation procedures, cost behavior and cost estimation, contribution margin income statements, and budgets. The general approach will be the use of accounting information rather than its accumulation and distribution.

5122 Accounting Implementation

Prerequisite(s): ACC 5121.

Operating issues as operations are begun. Topics include controlling day-to-day operations and responsibility accounting, and short-term operating decisions. Additional topics include accounting for cash, accounts receivable, inventories, plant and equipment, current and long-term liabilities, installment notes payable, and bonds. Using the information provided by the accounting system and establishing appropriate operating procedures will be emphasized.

5123 Accounting in a Changing Environment

Prerequisite(s): ACC 5122.

Skills used in evaluating and adapting to change. Topics include the income statement, the balance sheet, the cash flow statement, analysis of financial statements, transfer pricing, and international operations. Emphasis will be upon providing non-accounting professionals with the accounting knowledge they need to be successful in today's rapidly changing environment.

5305 Financial Accounting

Prerequisite(s): Admission to the Executive MBA program.

This course exposes students to accounting from the perspective of managers, investors, and creditors. Reading and interpreting financial statements is a primary focus. Course topics include the limitations of financial statements, use of financial statements in the determination of company value, and internal controls.

5308 Management Accounting Seminar

Prerequisite(s): Admission to MAcc or MTax program; or consent of instructor.

Role of accounting analysis in managerial planning and control, with an emphasis on facilitating the development and implementation of business strategies.

5315 Accounting Information Systems Seminar

Prerequisite(s): Graduate standing.

Design and implementation issues of accounting information systems. Through readings and case studies, course develops knowledge needed by consultants in the accounting information systems field. Emerging issues in the application technology to accounting information systems are also examined.

5317 Information Systems Auditing

Prerequisite(s): Admission to MAcc, MTax, or MSIS program; or consent of instructor.

An examination of theories and practices of information systems auditing. Practical exposure to information systems audit tools and risk assessment will be emphasized.

5320 Managerial Accounting

Prerequisite(s): Admission to the Executive MBA program.

Students examine accounting's role in the information flow of an organization while focusing on measurement of decision-making and performance. Topics include budgeting, variance analysis, direct costing, profit centers, investment centers, transfer pricing, and ethics. Participants learn to effectively use accounting information in their decision-making process.

5325 Governmental and Nonprofit Accounting

Prerequisite(s): Admission to MAcc or MTax program or permission of instructor.

Examination of accounting, financial reporting, and budgeting for state and local governments, the Federal, and not-for-profit entities.

5330 Seminar in Auditing and Assurance Services

Prerequisite(s): Admission to MAcc or MTax program; or consent of instructor.

A study of auditing and assurance services theories and methodologies through use of case studies, video simulations and reading of current literature. Topical coverage includes emerging issues in auditing, attestation, and assurance services.

5331 Fraud Examination

Prerequisite(s): Admission to MAcc or MTax program; or consent of instructor.

An in-depth study of the nature of financial fraud, its legal elements and criminology, and the methods used to prevent and detect it. Included is exposure to the process by which financial fraud, including computer fraud, is investigated. Litigation techniques, including the giving of expert testimony, are studied. Fraud prevention techniques for business entities are also covered.

5340 Tax Considerations in Business Decisions

Prerequisite(s): Admission to MAcc program; or consent of instructor.

Tax principles, rules, and alternatives: emphasis on effect on business decisions. Includes income and deductions, employee incentives and fringe benefits, cost recovery, tax-free exchanges, gains and losses, form of business organization (proprietorships, partnerships, or corporations), estate and gift taxes, international taxation.

5355 Cases in Accounting

Prerequisite(s): Admission to MAcc or MTax program; or consent of instructor.

Case-study applications of accounting theory to actual business situations. Emphasis is on an in-depth understanding of elements of financial statements, problem recognition and problem solving as well as the impact of various business situations upon financial reporting practices.

5361 Corporate Taxation

Prerequisite(s): Admission to MAcc or MTax program; or consent of instructor.

Federal income taxation of corporations and their shareholders: problems of organizing and capitalizing a corporation, determinants of the corporate income tax base, non liquidating and liquidating distributions, reorganizations, and penalty taxes.

5362 Partnership and S Corporation Taxation

Prerequisite(s): Admission to MAcc or MTax program; or consent of instructor.

Major aspects of taxation affecting flow-through entities and their owners. Emphasis on tax law by studying the Internal Revenue Code, Treasury Regulations, IRS Rulings, and case law. Tax planning and preparation of entity tax returns.

5363 State, Local, Estate and Gift Taxation

Prerequisite(s): Admission to MAcc or MTax program; or consent of instructor.

An examination of the taxation of United States income among states, sales, use, and franchise taxes imposed by most states, and federal income taxation of estates, trusts, and beneficiaries.

5364 International Taxation

Prerequisite(s): Admission to MAcc or MTax program or consent of instructor.

Introduction to jurisdictional tax issues and laws surrounding foreign taxation of United States taxpayers and United States taxation of foreigners doing business in the United States.

5365 Advanced Individual Taxation

Prerequisite(s): Admission to MAcc or MTax program; or consent of instructor.

In-depth coverage of selected areas of taxation relevant to individuals including the alternative minimum tax system; limitations on losses and deductions; acquisitions; uses and dispositions of

interests in property; depreciation methods; characterization and reporting of gains and losses; deferral techniques; and other current topics.

5370 Tax Research

Prerequisite(s): Admission to MAcc or MTax program; or consent of instructor.

In-depth treatment of the process necessary to research a tax problem efficiently, to arrive at a defensible solution, and to communicate that solution effectively. Students will also learn the process necessary to research a tax problem efficiently, to arrive at a defensible solution, and to communicate that solution effectively.

5378 Seminar in International Accounting

Prerequisite(s): Graduate standing.

Official and unofficial generally accepted accounting principles (GAAP) used in other major countries. International accounting standards, which are used by many countries that do not have well-developed national GAAP, will also be studied. The course is designed to facilitate the understanding and financial analyses of international corporations.

5380 Advanced Financial Accounting Topics

Prerequisite(s): Admission to MAcc or MTax program; or consent of instructor.

Business combinations and consolidated financial statements, accounting for partnerships, governmental and not-for-profit accounting, and other topics of contemporary interest.

5385 Financial Statement Analysis

Prerequisite(s): Admission to MAcc or MTax program or permission from Department Chair of Accounting or Director of Accounting Graduate Programs.

An analysis of financial statements in order to examine cash flows, make judgments about earnings quality and uncover hidden assets and liabilities as part of the strategic analysis of firms. Financial statement analysis is used prospectively to forecast and value firms using cash flow based and accounting based methods. Tools are applied specifically to the valuation of equities.

5395 Internship in Accounting

Prerequisite(s): Consent of Director of Accounting Internships.

Directed real-world learning experience under the supervision of a practicing accountant. The internship assignment must be approved by the Director of Accounting prior to enrollment.

5V98 Special Studies in Accounting

1 to 6 sem. hrs.

Prerequisite(s): Admission to MAcc or MTax program; or consent of instructor.

Individualized research in accounting. Students' proposals for special study project must be approved by the supervising faculty member. Offered on demand and by consent of the adviser for one to six semester hours.

5V99 Thesis

1 to 6 sem. hrs.

Prerequisite(s): Consent of instructor.

AFRICAN STUDIES (AFS)

4312 Societies and Cultures of Africa (Cross-listed as ANT 4312)

See ANT 4312 for course information.

4314 Religion and Politics in Contemporary Africa (Cross-listed as CHS 4314)

Prerequisite(s): Junior or senior standing.

The dynamic relationship between religion and politics in selected African countries south of the Sahara.

4361 Traditional Music and Culture in Africa (Cross-listed as MUS 4361)

See MUS 4361 for course information.

AKKADIAN (AKK)**5307 Akkadian**

Prerequisite(s): HEB 3302 or equivalent.

An introduction to the grammar, syntax, and vocabulary of Akkadian.

AMERICAN STUDIES (AMS)**4300 Political Behavior (Cross-listed as PSC 4300)**

See PSC 4300 for course information.

4318 Philosophy of Law (Cross-listed as PHI 4318)

See PHI 4318 for course information.

4321 African American Politics (Cross-listed as PSC 4320)

See PSC 4320 for course information.

4326 American Folk Music (Cross-listed as MUS 4326)

See MUS 4326 for course information.

4336 Introduction to Religion in America (Cross-listed as REL 4336)

See REL 4336 for course information.

4338 Women in Religion in America (Cross-listed as REL 4338)

See REL 4338 for course information.

4339 Special Topics in History (Cross-listed as HIS 4340)

See HIS 4340 for course information.

4340 Environmental Archaeology (Cross-listed as ANT 4340, ARC 4340, and ENV 4340)

See ANT 4340 for course information.

4342 Contemporary American Philosophy (Cross-listed as PHI 4342)

See PHI 4342 for course information.

4353 Archaeology of North America (Cross-listed as ANT 4353 and ARC 4353)

See ANT 4353 for course information.

4357 American Art - AAI (Cross-listed as ART 4357)

See ART 4357 for course information.

4358 Contemporary Art - AAI (Cross-listed as ART 4358)

See ART 4358 for course information.

4359 History of Photography (Cross-listed as JOU 4359)

See JOU 4359 for course information.

4360 Documentary Explorations (Cross-listed as JOU 4360)

See JOU 4360 for course information.

4361 American Constitutional Law (Cross-listed as PSC 4361)

See PSC 4361 for course information.

4362 American Colonial History (Cross-listed as HIS 4362)

See HIS 4362 for course information.

4363 American Revolution and Constitution (Cross-listed as HIS 4363)

See HIS 4363 for course information.

4365 The Early Republic, 1789-1860 (Cross-listed as HIS 4365)

See HIS 4365 for course information.

4367 Music and Identity in Texas Culture (Cross-listed as MUS 4365)

See MUS 4365 for course information.

4368 Civil War and Reconstruction (Cross-listed as HIS 4368)

See HIS 4368 for course information.

4369 Religion in America, 1877-Present (Cross-listed as HIS 4369)

See HIS 4369 for course information.

4371 United States, 1877-1920 (Cross-listed as HIS 4371)

See HIS 4371 for course information.

4373 History of the American Woman Since 1865 (Cross-listed as HIS 4378)

See HIS 4378 for course information.

4374 United States since 1920 (Cross-listed as HIS 4374)

See HIS 4374 for course information.

4377 The American Civil Rights Movement (Cross-listed as HIS 4375)

See HIS 4375 for course information.

4381 American Constitutional Law (Cross-listed as PSC 4381)

See PSC 4381 for course information.

4382 The American West (Cross-listed as HIS 4380)

See HIS 4380 for course information.

4383 History of the South (Cross-listed as HIS 4383)

See HIS 4383 for course information.

4384 American Indian History (Cross-listed as HIS 4384)

See HIS 4384 for course information.

4385 Seminar in American Studies

Prerequisite(s): Senior standing or consent of program director.

Studies the theory and practice of American Studies, presents students with the opportunity to analyze written and visual texts, and requires a major paper. Through written work and oral presentations, the course gives students a broad perspective on the American culture.

4386 The City in American History (Cross-listed as HIS 4386)

See HIS 4386 for course information.

4388 American Environmental History (Cross-listed as HIS 4388)

See His 4388 for course information.

4392 American Foreign Relations since 1919 (Cross-listed as HIS 4392)

See HIS 4392 for course information.

4393 Environmental Ethics (Cross-listed as ENV 4393 and REL 4393)

See REL 4393 for course information.

4395 History of American Thought, 1630-1859 (Cross-listed as HIS 4395)

See HIS 4395 for course information.

4396 History of American Thought, 1859 to Present (Cross-listed as HIS 4396)

See HIS 4396 for course information.

4397 American Rhetoric (Cross-listed as CSS 4396)

See CSS 4396 for course information.

4669 Documentary Summer Field School (Cross-listed as JOU 4669)

See JOU 4669 for course information.

4V99 Special Topics in Philosophy (Cross-listed as PHI 4V99)

See PHI 4V99 for course information.

1 to 3 sem. hrs.

5304 Bibliography and Research Methods (Cross-listed as ENG 5304)

See ENG 5304 for course information.

5306 Literary Criticism: Seminar (Cross-listed as ENG 5306)

See ENG 5306 for course information.

5308 Independent Study in Literature (Cross-listed as ENG 5308)

See ENG 5308 for course information.

5310 Research Methods in Mass Communication (Cross-listed as JOU 5310)

See JOU 5310 for course information.

5315 Foundations of the American Economy (Cross-listed as EDC 5315)

See EDC 5315 for course information.

5316 Basic American Documents (Cross-listed as EDC 5316)

See EDC 5316 for course information.

5320 Theory of Mass Communication (Cross-listed as JOU 5320)

See JOU 5320 for course information.

5330 American Political Development (Cross-listed as PSC 5330)

See PSC 5330 for course information.

5332 Human Growth and Development (Cross-listed as EDP 5332)

See EDP 5332 for course information.

5333 Psychology of Learning (Cross-listed as EDP 5333)

See EDP 5333 for course information.

5335 Research in Education (Cross-listed as EDP 5335)

See EDP 5335 for course information.

5336 History of American Christianity (Cross-listed as REL 5336)

See REL 5336 for course information.

5340 The American Founding (Cross-listed as PSC 5340)

See PSC 5340 for course information.

5342 Native American Religions (Cross-listed as REL 5342)

See REL 5342 for course information.

5350 Seminar in Mass Communication (Cross-listed as JOU 5350)

See JOU 5350 for course information.

5360 Seminar in United States History (Cross-listed as HIS 5360)

See HIS 5360 for course information.

5362 Women's Suffrage Movement (Cross-listed as HIS 5362)

See HIS 5362 for course information.

5365 Seminar in Public History (Cross-listed as HIS 5365)

See HIS 5365 for course information.

5367 Seminar in Oral History (Cross-listed as HIS 5367)

See HIS 5367 for course information.

5368 Vietnam War (Cross-listed as HIS 5368)

See HIS 5368 for course information.

5369 American Civil Religion (Cross-listed as CHS 5369, REL 5369, and SOC 5369)

See CHS 5369 for course information.

5370 Historical Research and Writing (Cross-listed as HIS 5370)

See HIS 5370 for course information.

5371 Religion in the American South (Cross-listed as HIS 5371)

See HIS 5371 for course information.

5375 The Civil Rights Movement (Cross-listed as HIS 5375)

See HIS 5375 for course information.

5389 Contemporary American Literature (Cross-listed as ENG 5395)

See ENG 5395 for course information.

5391 Colonial American Literature (Cross-listed as ENG 5391)

See ENG 5391 for course information.

5393 Nineteenth Century American Literature (Cross-listed as ENG 5393)

See ENG 5393 for course information.

5394 Modern American Literature (Cross-listed as ENG 5394)

See ENG 5394 for course information.

5395 Seminar in American Educational Thought (Cross-listed as EDA 6370)

See EDA 6370 for course information.

5396 American Studies: Seminar (Cross-listed as ENG 5396)

See ENG 5396 for course information.

5V99 Thesis

1 to 9 sem. hrs.

ANTHROPOLOGY (ANT)

4305 Anthropological Theory

Prerequisite(s): Upper-level standing or consent of instructor.

Theoretical approaches to modern-day anthropology, with emphasis on political economy, Marxism, hermeneutics, ecology, and feminism.

4310 Societies and Cultures of East Asia (Cross-listed as AST 4310)

Cultural traits and social structures of China, Korea, and Japan in the context of their development from the traditional to the modern. Special attention on Japanese society in comparison with American society.

4312 Societies and Cultures of Africa (Cross-listed as AFS 4312)

Current social issues and policies in the light of historical and cultural foundations of selected African countries.

4320 Culture, Personality and Identity (Cross-listed as SOC 4320)

Prerequisite(s): Upper-level standing or consent of instructor.

A thorough investigation of the relationship between the individual and culture/society, with emphasis on the “culture and personality” school of contemporary humanistic social science.

4325 Medical Anthropology

Biological and sociocultural aspects of human health, disease, development, aging, and health care. Especially emphasized are the developmental, holistic, and cross-cultural perspectives on disease and the life cycle.

4327 Human Catastrophe and Cultural Response (Cross-listed as ENV 4327)

Impact of major catastrophes on human society with emphasis on coping strategies and the utility of disaster theory to help in the recovery process. Issues include disaster, toxic disaster, famine, epidemic, war and natural oppression.

4330 Epidemiology

Prerequisite(s): Some facility with quantitative methods, preferably with elementary knowledge of statistics.

Epidemiological concepts and skills pertinent to the understanding of diseases. Assessment of cultural, ecological, environmental, occupational, and behavioral factors.

4340 Environmental Archaeology (Cross-listed as AMS 4340, ARC 4340, and ENV 4340)

Prerequisite(s): ANT 1305 or 3304 or ENV 1101.

Distributional patterns of archaeological sites within specific environments. Archaeological/environmental field work in Texas, with respect to recent conservation laws protecting nonrenewable archaeological resources.

4341 Archaeology of the Eastern Mediterranean (Cross-listed as ARC 4341)

Prerequisite(s): Junior or senior standing.

Study of the environmental and cultural factors that led to the rise and fall of civilizations in the Eastern Mediterranean from 8,000 to 69 B.C.

4348 Geoarchaeology (Cross-listed as ARC 4348 and GEO 4348)

See GEO 4348 for course information.

4351 Futuristics (Cross-listed as ENV 4351)

Prerequisite(s): Upper-level standing or consent of instructor.

Biological and cultural forces that will likely shape humankind's future. Emphasis on trends in demography, globalization, science, and technology.

4353 Archaeology of North America (Cross-listed as AMS 4353 and ARC 4353)

An archaeological survey of human societies in the United States and Canada from their earliest appearance in the New World to the arrival of Europeans. One-third of the course will focus on historical archaeology.

4355 Forensic Anthropology (Cross-listed as FORS 4355)

Prerequisite(s): ANT 3331 or FORS 3331.

Forensic anthropological techniques used in civil and criminal court cases, including analysis of skeletal material for sex, age, stature, and biological affinity.

4360 Anthropology of Religion

Prerequisite(s): ANT 2305 and upper-level standing; or consent of instructor.

Myth, ritual and religion in social and cultural anthropology. Emphasis on structural and functional analysis, including critiques of pertinent classical and contemporary works.

4361 Ethnographic and Analytical Methods in Ethnomusicology (Cross-listed as MUS 4360)

See MUS 4360 for course information.

4362 Applied Anthropology (Cross-listed as ENV 4362)

Prerequisite(s): ANT 1305.

An introduction to applied anthropology where major research components are identified and specific fields such as medical, nutritional, environmental anthropology, and Third World development are discussed.

4365 Primate Behavior

Prerequisite(s): Upper-level standing or consent of instructor.

The complex social behavior of primates. Includes field trips. Graduate students produce a comprehensive research paper.

4369 Seminar in Anthropology (Cross-listed as ENV 4369)

Prerequisite(s): ANT 3304, 3305; or consent of instructor.

Debate of current theoretical issues that reflect the continually changing nature of the discipline. Students will address all sides of a currently debated issue, drawing upon their studies in anthropology and related fields. Faculty participation.

4680 Field School in Cultural Anthropology (Cross-listed as ENV 4680)

Prerequisite(s): Consent of instructor.

Residence for five to six weeks in a selected area to observe and analyze social, economic, and environmental systems. (Fee)

4690 Field School in Physical Anthropology

Prerequisite(s): Consent of instructor.

Training in research techniques to gain an understanding of the methodology and its application in field research in various topics related to physical anthropology. (Fee)

4V15 Research Methods in Cultural Anthropology

3 to 6 sem. hrs.

Prerequisite(s): Consent of instructor.

Lecture and field experience in the methods and techniques of social and cultural anthropology. May be repeated for a total of six semester hours with different topics.

4V16 Archaeological Research (Cross-listed as ARC 4V16)

3 to 6 sem. hrs.

Independent library and lab research focused on a current topic in archaeology. May be repeated for a total of six semester hours with different topics.

4V70 Special Topics in Anthropology

1 to 6 sem. hrs.

Prerequisite(s): ANT 1305 and consent of instructor.

A reading-research project in selected areas of ethnology, archaeology, or physical anthropology. May be repeated for credit up to a total of six semester hours, provided topic is different.

ARAMAIC (ARA)

4303 Aramaic

Prerequisite(s): HEB 2301 or its equivalent.

Grammar of Biblical Aramaic and of selected Aramaic portions of the Old Testament with a brief introduction to post-Biblical Aramaic materials.

ARCHAEOLOGY (ARC)

4340 Environmental Archaeology (Cross-listed as AMS 4340, ANT 4340, and ENV 4340)

See ANT 4340 for course information.

4341 Archaeology of the Eastern Mediterranean (Cross-listed as ANT 4341)

See ANT 4341 for course information.

4348 Geoarchaeology (Cross-listed as ANT 4348 and GEO 4348)

See GEO 4348 for course information.

4353 Archaeology of North America (Cross-listed as AMS 4353 and ANT 4353)

See ANT 4353 for course information.

4V50 Special Topics in Archaeology

1 to 4 sem. hrs.

Prerequisite(s): Consent of instructor.

Current topics in archaeological research. May be repeated once for credit up to a total of six semester hours provided topic is different.

ART (ART)

ART HISTORY COURSES

4357 American Art - AAI (Cross-listed as AMS 4357)

Prerequisite(s): ART 2302 and 2303.

Artistic expression in the United States from the Colonial Period to 1945.

4358 Contemporary Art - AAI (Cross-listed as AMS 4358)

Prerequisite(s): ART 2302 and 2303; and upper-level standing.

American and European painting and sculpture from 1945 to the present.

4365 Italian Renaissance Art

Prerequisite(s): ART 2302 and 2303; and upper-level standing.

The major arts in Italy from the thirteenth to the sixteenth centuries with emphasis on sculpture and painting.

4375 Art Theory and Criticism

Prerequisite(s): ART 2302 and 2303; and upper-level standing.

Critical examination of theoretical issues in interpretation and evaluation of art.

4V91 Special Problems in Art History

1 to 9 sem. hrs.

Prerequisite(s): ART 2302 and 2303; and upper-level standing; and consent of instructor and department chair.

Qualified students with established success in art history may research and report on special areas or topics in art history. May be repeated once with a change in content.

STUDIO COURSES

4320 Watercolor Painting

Prerequisite(s): ART 1316 and 2310.

Techniques of the water-based media. Instruction gives much attention to creative style and individual criticism. (Fee)

4321 Advanced Painting

Prerequisite(s): ART 1316, 2310, and either 3320, 3321, or 4320.

Study of a specific painting medium selected by the student in consultation with the instructor. (Fee)

4324 Advanced Intaglio

Prerequisite(s): ART 3324.

A continuation of ART 3324 with emphasis upon creative expression with the metal plate. (Fee)

4325 Advanced Lithography

Prerequisite(s): ART 3325.

A continuation of ART 3325 with emphasis upon the creative aspects of aluminum plate lithography and color printing. (Fee)

4330 Illustration

Prerequisite(s): ART 2310, 3320, 3330 or 4320.

Illustrative art for graphic design. Emphasis on media, technique, style, and concept in advertising and editorial illustration. (Fee)

4331 Package Design

Prerequisite(s): ART 3332.

Graphic design concepts applied to the design of three-dimensional form such as packaging, point-of-sale, environmental, and/or exhibition design. (Fee)

4332 Identity Design

Prerequisite(s): ART 3332.

Introduction to the visual communication of identity development and branding. Emphasis on merging conceptual development with the aesthetic and implementation. (Fee)

4334 Advanced Photography I (Color)

Prerequisite(s): ART 3335.

Basic principles, processes and approaches to color photography through creative problem-solving assignments. (Camera, fee)

4V90 Special Problems in Studio Art

1 to 9 sem. hrs.

Prerequisite(s): Written consent of the appropriate instructor.

Qualified students with established success in specified areas of art, especially their major concentration, may work on approved projects. May be repeated once with a change of content.

ASIAN STUDIES (AST)

4305 Modern China (Cross-listed as HIS 4305)

See HIS 4305 for course information.

4310 Societies and Cultures of East Asia (Cross-listed as ANT 4310)

See ANT 4310 for course information.

4325 Asian International Relations (Cross-listed as PSC 4325)

See PSC 4325 for course information.

4340 East Asian Philosophy (Cross-listed as PHI 4340)

See PHI 4340 for course information.

4346 Topics in Asian Religions (Cross-listed as REL 4346)

See REL 4346 for course information.

4350 Seminar in Asian Studies

An interdisciplinary seminar focusing on appropriate topics in the field of Asian studies. With content changed, this course may be repeated once for a maximum of six semester hours.

4362 Traditional Music and Culture in Asia (Cross-listed as MUS 4362)

See MUS 4362 for course information.

4364 The Governments and Politics of the Asia-Pacific Region (Cross-listed as PSC 4364)

See PSC 4364 for course information.

4374 Governments and Politics of East Asia (Cross-listed as PSC 4374)

See PSC 4374 for course information.

4376 Asian Literature in Translation (Cross-listed as MFL 4376)

Major writers of the East and their representative works. Course content varies. Readings may emphasize one national literature or survey the significant works in several literatures, stressing the genres and techniques peculiar to several Asian cultures.

4V80 Contemporary Issues in Asian Studies

1 to 3 sem. hrs.

Flexible credit options for the study of contemporary issues in Asian studies for upper-level and graduate students. With content changed, this course may be repeated once for a maximum of six semester hours; a maximum of three hours may be earned for graduate credit.

AVIATION SCIENCES (AVS)**4311 Meteorology (Cross-listed as GEO 4314 and GEOG 4314)**

See GEOG 4314 for course information.

4320 Air Pollution Sampling and Testing

Prerequisite(s): AVS 1311, 1312, 4305, and CHE 1301.

Air pollution characterization and movement, principles and operation of pollution measuring instruments, air sampling techniques both at ground level and using instrumented aircraft, an interpretation and analysis of the data obtained. For graduate credit, students will be assigned a project by the instructor in addition to the course work assigned to undergraduate students.

4323 The Environment and Economic Analysis (Cross-listed as ECO 4323 and ENV 4323)

See ENV 4323 for course information.

4330 Aviation Fuels

Prerequisite(s): AVS 1311, 1312, CHE 1301 or consent of instructor.

General overview of fuels, combustion processes including energy release and maximum flame temperature calculations, fuels specific to aviation-sources, properties, manufacture, and distribution. Alternative fuels for aviation-sources, properties, manufacture, distribution, pollution and other ecological issues, and safety issues. For graduate credit, students will be assigned a project.

4340 Flight Performance Testing

Prerequisite(s): AVS 1311, 1312, 4305; Private Pilot License; and credit or concurrent enrollment in AVS 4315; or consent of instructor.

Exploration of the theoretical and practical performance of aircraft including methods and techniques needed to determine airspeed calibration, climb and descent performance, level flight performance, takeoff and landing distance determinations, turning performance and energy performance. Practical flight tests will be conducted using different aircraft and aviation fuels.

4386 Remote Sensing (Cross-listed as BIO 4386, ENV 4386, GEO 4386 and GEOG 4386)

See GEO 4386 for course information.

4485 Introduction to Geographic Information Systems (Cross-listed as ENV 4485, GEO 4485, and GEOG 4485)

See GEOG 4485 for course information.

4487 Advanced GIS Analysis (Cross-listed as ENV 4487, GEO 4487, and GEOG 4487)

See GEOG 4487 for course information.

5320 Instrumentation and Test Stand Laboratory

Prerequisite(s): AVS 4305 and credit or concurrent enrollment in AVS 4320 and 4330.

A laboratory-based course where students gain hands-on experience with (i) modern equipment used to measure air pollution levels; (ii) contemporary engine test equipment for both piston and turbine aircraft engines, including dynamometers and exhaust emission analysis instrumentation; and (iii) the computer software and hardware to enable data collection and reduction via either data loggers and computer manipulation, or by direct computer data capture.

5330 Development of Biofuels in Aviation

Prerequisite(s): AVS 1312 (or its equivalent); CHE 1301 or AVS 4330 (or their equivalents).

Rationale for developing and using biofuels in aviation. History of the development of biofuels as aviation fuels. History of fossil fuels. International experience in aviation biofuels. Environmental, economic, and energy security factors. Technical considerations and testing procedures including FAA certification procedures.

5368 Integrated Energy Resource Systems (Cross-listed as ENV 5368)

See ENV 5368 for course information.

5391 Measurement Methods and Data Analysis for Air Pollution (Cross-listed as ENV 5391)

See ENV 5391 for course information.

5393 Atmospheric Chemistry & Physics (Cross-listed as ENV 5393)

See ENV 5393 for course information.

5V99 Research for Master's Thesis

1 to 6 sem. hrs.

Prerequisite(s): Consent of instructor.

Research, data analysis, writing, and oral defense of an approved master's thesis. At least six hours of AVS 5V99 are required.

BIOLOGY (BIO)**4104 Medical Entomology Laboratory**

Prerequisite(s): BIO 1105, 1305; and either BIO 1106, 1306 or BIO 1406; upper-level standing and credit or concurrent enrollment in BIO 4304, or consent of instructor.

Collection, preservation, identification, taxonomy and biology of medically important arthropods, especially insects. Survey collection required for graduate credit.

4106 Molecular Genetics Laboratory

Prerequisite(s): BIO 1105, 1305; and either BIO 1106, 1306 or BIO 1406, and BIO 4306, or concurrent enrollment; or consent of instructor.

Training and preparation for graduate work in genetic engineering, molecular ecology, or molecular medical research. Techniques include DNA isolation, cloning, southern blotting, PCR, DNA sequencing, and computer analysis of DNA sequence.

4107 Laboratory Studies in Cell Physiology

Prerequisite(s): BIO 1105, 1305; and either BIO 1106, 1306 or BIO 1406, and BIO 4307 or concurrent enrollment.

Experimental aspects of cellular physiology and metabolism with emphasis on techniques in colorimetry and enzyme analysis. (0-3)

4108 Cell and Developmental Biology Laboratory

Prerequisite(s): BIO 1105, 1305; and either BIO 1106, 1306 or BIO 1406, and 2306, 4308 or concurrent enrollment; or consent of instructor.

Modern experimental techniques of cell and developmental biology such as microscopy, mutant screening, immunoblotting, histochemistry, tissue culture, and cell adhesion assay will be covered during the course of laboratory exercises and students will have hands-on experience.

4123 Laboratory for Parasitology

Prerequisite(s): BIO 1105, 1305; and either BIO 1106, 1306 or BIO 1406; credit or concurrent enrollment in BIO 4323 and consent of instructor; and upper-level or graduate standing.

Detection and identification of human parasite diagnostic forms. Power Point presentation required for graduate credit.

4301 Immunology

Prerequisite(s): BIO 1105, 1305; and either BIO 1106, 1306 or BIO 1406.

Basic principles of resistance to disease, host-antigen interactions, immunologic response mechanisms, immunologic techniques, and correlations of disease and the immune response. (3-0)

4304 Medical Entomology

Prerequisite(s): BIO 1105, 1305; and either BIO 1106, 1306 or BIO 1406; upper-level standing and consent of instructor.

Identification, biology, and management of arthropod pests, especially insects, transmitting diseases affecting man, livestock and wildlife.

4306 Molecular Genetics

Prerequisite(s): BIO 1105, 1305; and either BIO 1106, 1306 or BIO 1406; and either BIO 2306, BIO 4341 or CHE 4341.

The contents, arrangement, replication transcription, and translation of the genome. Use of bioinformatic techniques to map and analyze genomes, detect mutations, isolate important genes, and determine gene function and engineering techniques used to control gene expression.

4307 Physiology and Biochemistry of the Cell

Prerequisite(s): BIO 1105, 1305; and either BIO 1106, 1306 or BIO 1406; and CHE 3331 or consent of instructor.

Physiology and biochemistry of the cell; a correlation of the fine structure of the cell with metabolic pathways occurring therein. Undergraduate biology majors who choose this course to fulfill the physiology requirement must take both BIO 4307 and 4107.

4308 Cell and Developmental Biology

Co-requisite(s): BIO 4108.

Prerequisite(s): BIO 1105, 1305; and either BIO 1106, 1306 or BIO 1406; and 2306.

The mechanisms that regulate the development of multicellular organisms, from nematode to humans, will be examined using biochemical, genetic, and cell biological approaches. The course will investigate the role that gene regulation, cell-cell communication, cell adhesion, cell motility,

signal transduction, and intracellular trafficking play in the commitment, differentiation and assembly of stem cells into specialized cell types and organs.

4310 Biogeography

Prerequisite(s): BIO 1105, 1305; and either BIO 1106, 1306 or BIO 1406; and 3403 and any one of BIO 3424, 4414, 4420, 4422, 4425, 4427 or 4428.

Patterns of geographic distributions of animals and plants, and the physical and biological factors, and processes affecting geographic distributions. (3-0)

4320 Pathophysiology

Prerequisite(s): BIO 1105, 1305; and either BIO 1106, 1306 or BIO 1406; and 3422 or concurrent enrollment; or consent of instructor.

Pathophysiology of disease with emphasis on immunology, communicable disease, neoplasia, heredity, congenital problems, and degeneration as expressed in each organ system.

4323 Parasitology

Prerequisite(s): BIO 1105, 1305; and either BIO 1106, 1306 or BIO 1406; upper-level or graduate standing or consent of instructor.

Introduction to study of parasites and vectors, emphasizing life cycles and control of those affecting humans. Research paper required for graduate credit.

4330 Behavioral Genetics

Prerequisite(s): BIO 1105, 1305; and either BIO 1106, 1306 or BIO 1406; 2106, and 2306; or consent of instructor.

Biological and genetic foundations of animal behavior. (3-0)

4339 Advanced Marine Field Studies (Cross-listed as GEO 4339)

See GEO 4339 for course information.

4344 Fundamentals of Toxicology (Cross-listed as ENV 4344)

See ENV 4344 for course information.

4352 Evolutionary Developmental Genetics

Prerequisite(s): BIO 1105, 1305; and either BIO 1106, 1306 or BIO 1406; and 2306, and upper-level standing; or consent of instructor.

Integration of Evolutionary Biology and Developmental Biology into a common framework. The focus will be on the evolution of developmental pathways in order to explain the evolution of animal morphology.

4370 Biological Principles and Clinical Decision-Making

Prerequisite(s): BIO 1105, 1305; and either BIO 1106, 1306 or BIO 1406; and 3422 or concurrent enrollment; or consent of instructor.

Qualitative and quantitative fundamentals of clinical diagnosis and evidence-based medicine in the context of basic anatomy, physiology, biochemistry, and epidemiology.

4381 Restoration Ecology (Cross-listed as ENV 4380)

See ENV 4380 for course information.

4386 Remote Sensing (Cross-listed as AVS 4386, ENV 4386, GEO 4386 and GEOG 4386)

See GEO 4386 for course information.

4401 General Microbiology

Prerequisite(s): BIO 1105, 1305; and either BIO 1106, 1306 or BIO 1406.

An introduction to the major areas of microbiology, including microbial morphology, metabolism, genetics, evolution, taxonomy, ecology, and disease. Laboratory studies emphasize pure culture methods and identification of unknowns. (3-4)

4402 Transmission Electron Microscopy

Prerequisite(s): BIO 1105, 1305; and either BIO 1106, 1306 or BIO 1406; consent of instructor.

Use and operation of the transmission electron microscope and ancillary equipment as instruments of biological research, with special emphasis on tissue preparation, sectioning, examination, data acquisition, and photography.

4403 Scanning Electron Microscopy

Prerequisite(s): BIO 1105, 1305; and either BIO 1106, 1306 or BIO 1406; consent of instructor.

Use and operation of the scanning electron microscope and support equipment. Specimen preparation, specimen examination, data acquisition, and data analysis will be emphasized.

4405 Limnology

Prerequisite(s): BIO 1105, 1305; and either BIO 1106, 1306 or BIO 1406.

Lecture, laboratory, and field studies of lakes and streams. Emphasis on analysis and interpretation of physical, chemical, and biological factors relating to metabolism and production of aquatic communities. Overnight trips may be required. (2-6)

4406 Aquatic Biology

Prerequisite(s): BIO 1105, 1305; and either BIO 1106, 1306 or BIO 1406.

Laboratory and field studies of lakes, streams, and estuaries. Primarily for advanced students of zoology and botany who are interested in aquatic organisms and their ecology. Emphasis is on collection, preservation, and identification of all aquatic biota except fishes. Overnight trips may be required. (2-6)

4414 Taxonomy of Flowering Plants

Prerequisite(s): BIO 1105, 1305; and either BIO 1106, 1306 or BIO 1406.

Laboratory and field studies by the use of a dichotomous key emphasizing flowering plants of the Central Texas area as topics of study, and recognition of the major families of vascular plants. Lecture emphasis is on current problems in plant taxonomy and systematics. (3-3)

4416 Plant Anatomy

Prerequisite(s): BIO 1105, 1305; and either BIO 1106, 1306 or BIO 1406.

Anatomy of seed plants, with emphasis on structure-function relationships that occur during growth and development. (2-6)

4417 Plant Physiology

Prerequisite(s): BIO 1105, 1305; and either BIO 1106, 1306 or BIO 1406.

Experimental studies of important physical and chemical processes related to plant function. (3-3)

4418 Biology of Wetland and Aquatic Vascular Plants

Prerequisite(s): BIO 1105, 1305; and either BIO 1106, 1306 or BIO 1406; any taxonomic course.

Taxonomy, ecology, structure, distribution, and economic significance of aquatic vascular plants. (4-3)

4420 Biology of the Vertebrates

Prerequisite(s): BIO 1105, 1305; and either BIO 1106, 1306 or BIO 1406.

An introduction to the biology of the vertebrates, emphasizing recognition and classification of modern taxa, adaptations to diverse lifestyles, and importance to humans in context of diseases, domestication and conservation. (3-3)

4422 Ichthyology

Prerequisite(s): BIO 1105, 1305; and either BIO 1106, 1306 or BIO 1406.

Fish fauna of the area with emphasis on morphology, ecology, economics, and systematics. Overnight trips may be required. (2-6)

4426 Vertebrate Histology

Prerequisite(s): BIO 1105, 1305; and either BIO 1106, 1306 or BIO 1406.

Microscopic structure of vertebrate tissues and organs. (3-3)

4427 Biology of Mammals

Prerequisite(s): BIO 1105, 1305; and either BIO 1106, 1306 or BIO 1406.

An introduction to the biology of mammals, emphasizing recognition and classification of modern taxa, adaptations to diverse lifestyles, and importance to humans in context of diseases, domestication and conservation.

4428 Ornithology

Prerequisite(s): BIO 1105, 1305; and either BIO 1106, 1306 or BIO 1406.

Evolution, morphology, physiology, behavior, reproduction, ecology, geography, and migration of birds of the world. Includes field identification of Central Texas species. (3-3)

4431 Comparative Vertebrate Physiology

Prerequisite(s): BIO 1105, 1305; and either BIO 1106, 1306 or BIO 1406; and upper-level standing; or consent of instructor.

Vertebrate physiology in a comparative evolutionary context. Emphasis on general principles, with unique examples supplied from all major vertebrate taxa.

5100 Seminars in Biology

Graduate standing in biology and related fields. Topics of current interest in various subdisciplines of biology. Topics change each semester. Involves presentation of seminars by enrolled graduate students. May be repeated only with changes in topics.

5201 Research Methods in Biology

Description and application of the major tools of professional biology, especially biological design of experiments and the use of personal computers to summarize data, and methods for presentation of the results of scientific research. (2-0)

5300 Advanced Studies in Biology

Special and advanced topics in biology. May be repeated once with change in content.

5302 Virology (Cross-listed as BMS 5305)

Prerequisite(s): BIO 4106 and 4306 or equivalent.

Material covered includes viral replication, molecular regulation, cellular life cycle, and pathogenesis; evolution, emerging diseases, and epidemiology; and prevention and control of viral diseases. Viruses which infect humans, domestic animals, and plants will be the focus. The global health perspective will be addressed throughout.

5303 Behavioral Ecology

Prerequisite(s): BIO 3403 or equivalent.

Relationships among animal behavior, ecology, and evolution. Emphasis is on integrating current models with comparative and experimental evidence on how a particular behavior pattern contributes to an animal's chances of survival and its reproductive success.

5306 Molecular Evolution

Prerequisite(s): BIO 2306 and 2106.

Research in molecular genetics and its implications for evolutionary theory. Topics to be discussed include the evolutionary role of plasmids, temperate phage, transposons, introns, multigene families, organelle DNA, and DNA sequence divergence. (3-0)

5307 Advanced Cell Biology (Cross-listed as BMS 5307)

Prerequisite(s): BIO 4307 or 4308 or equivalents; or consent of instructor.

Advanced topics in current cell biology research, including organelle and cytoskeleton structure and function, intra- and inter-cellular signaling, intracellular trafficking, cell cycle regulation, and cell division.

5310 Advanced Microbiology

Prerequisite(s): BIO 4401 or consent of instructor.

Microorganisms, especially their mechanics of pathogenesis with emphasis on their distribution in nature, their beneficial and detrimental effects on humans, and the potential role of certain organisms in biowarfare.

5311 Advanced Genetic Analysis

Prerequisite(s): BIO 1105, 1106, 1305, 1306, 2306, 3342, and 4306 or equivalents; or consent of instructor.

Principles and practice of classical and modern genetic analysis as applied to eukaryotic organisms, including yeast, nematodes, *Drosophila*, mice, and humans; isolation and analysis of mutations; gene mapping; suppressor analysis; chromosome structure; control of gene expression; and developmental genetics.

5320 Ecological Biophysics

Prerequisite(s): BIO 3303 or BIO 3403; and MTH 1321, PHY 1408 and PHY 1409.

First principle approaches that are used to describe microenvironments of living organisms and the energy and mass transfer between organisms and their external environment.

5325 Advanced Topics in Evolutionary Biology

Prerequisite(s): Consent of instructor.

This course provides an opportunity to explore advanced evolutionary theory and its implementation. Emphasis on evolution as an integrative principle of biological science.

5330 Conservation Biology (Cross-listed as ENV 5330)

Prerequisite(s): BIO 2306 and 3403 or equivalent.

Biological forces influencing scarcity and diversity, emphasizing: genetics, fitness, population viability, extinction, endemism, habitat fragmentation, and community structure and stability. (3-0)

5340 Ecosystem Process Modeling

Prerequisite(s): MTH 1321 (or equivalent) and BIO 3403 (or equivalent).

Interactions among ecosystem elements are formalized in computer simulation. Identification of ecosystem sources/sinks, reservoirs, and flux pathways is presented with the biological interpretation of mathematical representation of ecological processes.

5360 Biological Invasions: Ecology and Management (Cross-listed as ENV 5360)

Prerequisite(s): BIO 3403 or equivalent.

The biology of invasive alien plants and animals, emphasizing evolutionary ecology, impacts on native species, and effects on biodiversity. Biological invasion causes, pathways, vectors, and management strategies in terrestrial and aquatic systems.

5377 Landscape Ecology (Cross-listed as ENV 5377)

Prerequisite(s): BIO 3403, MTH 1304, or equivalent.

Ecological factors influencing landscape structure and dynamics. Emphasis on landscape structure, exchanges among landscape components, and landscape stability and management. (3-0)

5380 Integrative Ecophysiology

Prerequisite(s): BIO 4431 or instructor approval.

Application of the basic principles of nutrition to the study of fish, reptiles, birds, and mammals in their natural environments.

5399 Experimental Design and Research Communications for Molecular Biologists (Cross-listed as BMS 5399)

Prerequisite(s): Consent of instructor.

This course provides in-depth training on how to formulate research hypothesis and questions and how to present the specialized areas of student research to general and professional audiences.

5400 Population Genetics

Prerequisite(s): BIO 2306 or equivalent.

Basic concepts and current research in population genetics. Topics covered include genetic variation in natural populations, evolutionary forces causing change in gene frequency, linkage disequilibrium, quantitative variation, and the genetics of speciation. (3-3)

5401 Microbial Ecology

Interactions and transformations of microorganisms in soil, air, and water. Emphasis on methodology and practical relationships of microorganisms in the environment. (2-6)

5402 Invertebrate Zoology

Diversity and phylogenetic development of all non-vertebrate phyla. Current areas of research in invertebrate biology are examined. (3-3)

5403 Population Ecology

Prerequisite(s): BIO 3403 or equivalent; and BIO 5412 or MTH 2381 or STA 3381

Lectures, discussions, and field studies that illustrate basic concepts and current research in theoretical and applied population ecology. Topics include life tables, census techniques, single-species population and metapopulation dynamics, population regulation, population dynamics in competitive and predator/prey interactions, and the conservation of populations. Includes an independent research project. (3-3)

5404 Wetland Ecology and Management (Cross-listed as ENV 5404)

Prerequisite(s): BIO 3403 or equivalent.

Lecture, laboratory, and field studies of the ecology and management of North American wetland environments. Emphasis will be placed on the ecology of aquatic and wetland plants and their role in determining wetland structure and function. Overnight field trip required.

5405 Stream Ecology (Cross-listed as ENV 5405)

Physical, chemical and biological organization of streams. Topics include geomorphology and hydrology, water chemistry, ecosystem processes in streams, watershed-stream linkages, and bioassessment methods.

5407 Bioenergetics

Discussion and laboratory experiences on the processes, pathways, and rate of biological energy transformation. (2-6)

5412 Biometrics

Prerequisite(s): MTH 1304 or equivalent.

Principles and methods for experimental design, quantitative analysis, and interpretation of biological data, including application of mainframe computer packages. (3-3)

5413 Advanced Ecological Data Analysis (Cross-listed as ENV 5413)

Prerequisite(s): BIO 5412 or equivalent.

Current approaches to analyzing and interpreting complex ecological data, particularly multivariate techniques relevant to community ecology and environmental assessment. Emphasis on integrative analysis strategies using techniques not typically available in statistics departments. Hands-on computer analysis of data sets.

5425 Molecular Ecology

Prerequisite(s): Consent of instructor.

Basic concepts and current laboratory techniques in molecular ecology. Emphasis is on use of these skills in addressing basic and advanced ecological questions.

5V90 Special Problems

1 to 6 sem. hrs.

Prerequisite(s): Consent of instructor.

Advanced work in biology. Subject and hours of credit agreed upon by student and professor prior to registration. For master's and doctoral students.

5V99 Thesis**1 to 6 sem. hrs.**

Prerequisite(s): Consent of major professor.

Research, data analysis, writing, and oral defense of an approved master's thesis. At least six hours of BIO 5V99 are required.

6V99 Dissertation**1 to 12 sem. hrs.**

Prerequisite(s): Consent of major professor.

Research, data analysis, and writing and oral/written defense of an approved doctoral dissertation. At least twelve hours of BIO 6V99 are required.

BIOMEDICAL ENGINEERING (BME)**4353 Image Formation and Processing (Cross-listed with ELC 4353)**

See ELC 4353 for course information.

4370 Biomaterials: Form and Function

Prerequisite(s): ME 3320 and 3322.

A traditional mechanical/materials engineering approach will be used to explore the structure and function relationship of naturally occurring biological materials. Emphasis is on mechanical design and function with some discussion of physical properties. Materials used in medical devices will be compared and contrasted with naturally occurring biomaterials. (3-0)

4372 Bioinstrumentation (Cross-listed as ELC 4372)

See ELC 4372 for course information.

4374 Biomechanics

Prerequisite(s): ELC 3335.

Introduction to biomechanics. Topics covered include: review of fundamental principles of mechanics, human musculoskeletal physiology and anatomy, properties of biological materials, methods and practice of measuring biological signals, biomechanical modeling and simulation, and applications of biomechanical study. (3-0)

4396 Special Topics in Engineering (Cross-listed with EGR 4396, ELC 4396, and ME 4396)

See EGR 4396 for course information.

4452 Biomedical Digital Signal Processing

Prerequisite(s): ELC 3335 and STA 3381.

Discrete-time signals and systems, sampling theory, z-transforms, spectral analysis, filter design, applications, analysis, and design of digital signal processing systems. Laboratory emphasis on biomedical applications of digital signal processing. Credit cannot be earned for ME 4452 if credit is earned for ELC 4451. (3-3)

4V97 Special Projects in Engineering (Cross-listed as EGR 4V97, ELC 4V97, and ME 4V97)**1 to 6 sem. hrs.**

See EGR 4V97 for course information.

5351 Multidimensional Signal Analysis (Cross-listed as ELC 5351)

See ELC 5351 for course information.

5353 Biomedical Signal Analysis (Cross-listed as ELC 5353)

See ELC 5353 for course information.

5360 Introduction to Biomedical Engineering

Prerequisite(s): Consent of instructor.

Introduction to the interdisciplinary nature and broad scope of biomedical engineering.

Topics covered will include biomechanics, biomaterials, biosensors, biomedical instrumentation, bioinformatics, prosthetic devices, and other biomedical engineering areas.

5375 Biomechanical Computer Modeling

Prerequisite(s): Graduate standing in Engineering.

An investigation into the methods of computer modeling and simulation for the study of human musculoskeletal biomechanics.

5390 Research Methods and Project Formulation (Cross-listed as ELC 5390 and EGR 5390)

See ELC 5390 for course information.

5396 Special Topics in Engineering (Cross-listed as EGR 5396, ELC 5396, and ME 5396)

See EGR 5396 for course information.

5397 Special Projects in Engineering (Cross-listed as EGR 5397, ELC 5397, and ME 5397)

See EGR 5397 for course information.

5V99 Master's Thesis (Cross-listed as ELC 5V99 and ME 5V99)

1 to 6 sem. hrs.

Students completing a master's program with a thesis must complete six hours of BME 5V99.

BIOMEDICAL STUDIES (BMS)**5100 Biomedical Seminar**

Prerequisite(s): Enrollment in graduate program.

Students are required to register for the weekly seminar (a forum for outside speakers, presentation of student research, and discussion of selected topics) and to present papers. No more than three semester hours may be counted on a master's degree and no more than six may be counted on the Ph.D. degree. (1-0)

5302 Current Concepts in Immunology

Prerequisite(s): BIO 4301 or 5301.

Lectures and didactic discourses on developing technology and trends in immunology, particularly elements that impact clinical and basic science research. The course will review the current understanding of cell-cell and cell-protein immunological synapses, and will survey state of the art approaches of cell and molecular vaccine development, diagnostics, immune modulation, and immunotherapy. Source materials include, but are not limited to, reviews on immunological areas of interest, seminal research articles, and publications on research focuses of the immunology faculty members.

5305 Virology (Cross-listed as BIO 5302)

See BIO 5302 for course information.

5307 Advanced Cell Biology (Cross-listed as BIO 5307)

See BIO 5307 for course information.

5308 Biotechnology and Cell Biomedicine

Prerequisite(s): Graduate student enrollment in Biology, Chemistry, or Biomedical Studies program. (BIO 4306 preferred but not required.)

Interdisciplinary course that covers basic mechanisms of molecular biology and genetics along with rigorous presentation of state-of-the-art research methodology. Utilization of DNA/RNA/protein regulation technology in biomedical and clinical applications.

5310 Molecular Biology of the Cell

Prerequisite(s): BIO 4307.

Advanced topics in cell biology. Cell division, replication, and recombination of DNA and

mutations and repair of DNA will be reviewed. Application of restriction enzymes, recombinant DNA technology, and sequencing of DNA to study molecular architecture of the cell will be overviewed. (3-0)

5343 Studies in Intermediary Metabolism

Prerequisite(s): CHE 4341 or BIO 4341; or consent of instructor.

Investigation of the interrelationships of energy utilizing and producing metabolic pathways. Consideration will be given to glycolysis, Kreb's cycle, oxidative pathways of fatty acids, pathways of lipid and sterol formation, and various aspects of gluconeogenesis and the pentosephosphate shunt, as well as specific functions of amino acid metabolism in oxidative stress and methylation.

5399 Experimental Design and Research Communications for Molecular Biologists (Cross-listed as BIO 5399)

See BIO 5399 for course information.

5401 Special Techniques in Immunology

Prerequisite(s): CHE 4341 and 4342; or consent of instructor.

Immune responses of vertebrate animals, including immunochemistry and molecular genetics. Cellular responses will be analyzed by conventional skin tests, in vitro correlates of delayed-type hypersensitivity, histology, and laser-activated cell sorting. (2-6)

5V95 Biomedical Research

Prerequisite(s): Consent of student's dissertation or advisory committee.

Directed research for those students who have not yet passed the Ph.D. preliminary examination and who have not yet selected a Ph.D. dissertation topic or for master's students desiring in-depth practical training in a specific area of research. May be repeated for no more than 18 semester hours of credit. (0-9) or (3-0)

5V99 Thesis

1 to 6 sem. hrs.

Prerequisite(s): Consent of student's thesis committee or a minimum of twelve hours of graduate work.

A minimum of six semester hours is required.

6390 Special Problems in Biomedical Studies

Prerequisite(s): Consent of student's dissertation committee.

Selected topics in biomedical studies. May be repeated with change in content. No more than six semester hours total credit allowed.

6V99 Dissertation

Prerequisite(s): Consent of the student's dissertation committee and admission to candidacy.

A minimum of twelve semester hours is required.

BUSINESS (MBUS)

5220 Organizational Ethics

This course will review major ethical theories, principles, decision-making methods, and the relationship between ethics and leadership. Clinical ethics topics will be considered from an organizational perspective, and topics with a more definitive business focus will be addressed.

BUSINESS (BUS)

5111 Professional Career Development for First Semester Graduate Students

A one-hour, beginning, graduate career development course designed to enhance personal

marketability by providing self-assessments, career passion discovery, career exploration and development experiences, and career resources to help prioritize and focus the student's specific internship and job search.

5112 Professional Career Development for Second Semester Graduate Students

Prerequisite(s): BUS 5111.

A one-hour graduate career development course designed to introduce personal accountability, networking skills, company/position analysis, job search strategy, interviewing skills, and negotiations to maximize the student's career development and personal marketability.

5201 Case and Computer Simulation Laboratory

Prerequisite(s): Acceptance into the executive MBA program.

A full-time, one-week, in-residence course designed to engage students in orientation and team building activities. Small study groups are established, individual expertise is shared, computer and math skills are enhanced and specific course assignments are initiated.

5302 In Residence II: International Business and the Public

Prerequisite(s): Policy Process Admission to the Executive MBA program.

This one week in-residence experience exposes students to issues related to international business and public policy. Audiences with government officials and corporate leaders provide the participant with a global perspective on public policy and international trade issues and how they affect firm strategies. Participants focus on how these issues affect business operations in general and their organization specifically. Emphasis is on the reality of how international business is carried out and the reality of how international trade policy is developed and implemented versus textbook approaches.

5340 Studies in the Caribbean Region

Prerequisite(s): Graduate standing.

This course is conducted in the Dominican Republic as part of the Baylor in the Dominican Republic program, which allows graduate students to experience life in the Caribbean region first-hand. Students will study the social, cultural, historical, economic, and political issues that impact businesses in the Dominican Republic and the general environment in which they operate. Students will visit a variety of enterprises and consider the dynamics of participation in the economy and society of a Caribbean nation.

5350 Project Management

Prerequisite(s): Graduate standing.

This graduate course in project management is designed to enhance the work of business professionals and persons involved in construction, environmental remediation, software development, grant writing, new product development, engineering, and design. Project management planning, network building, project control, reporting, and closing will be studied, including critical path and critical chain methodologies. Students will develop expertise in using Microsoft Project and critical chain computer software. This course introduces the tools and techniques necessary for successful and timely completion of projects in a single project environment. While briefly addressed, multi-project environments will not be covered in detail in this course.

5390 Management Communication

Examines principles and strategies of effective management communication in the areas of audience analysis, ethics, cross-culture, crisis, interpersonal communication, and team dynamics. Provides techniques, skills, and strategies for overcoming communication barriers and for designing and delivering executive presentations. Provides instruction in preparing effective professional reports including research, drafting, revision, format, and documentation. Examines corporate and leadership communication topics including corporate responsibility, integrity and image, communicating with the media, change, principle-centered leadership, and web-based communication, with ample opportunities for application and feedback.

5395 The Focus Firm

Prerequisite(s): Admission to MBA program.

This course integrates the content of previous courses through an in-depth analysis of the semester's Focus Firm company with attention to day-to-day operations as well as strategic issues. The course emphasizes the practical application of theoretical knowledge in an actual company facing current, challenging problems. Students will experience a team-centered approach to learning and selling their ideas. Participants will be involved in analyzing the Focus Firm company issues, presenting their solutions to faculty and company executives of the Focus Firm. Students will receive feedback from the company executives as well as faculty on their work.

5601 Integrated Management Seminar I

Prerequisite(s): Graduate business student.

The common body of knowledge in business administration comprising the following areas: a background of the concepts, processes and institutions in the financing of the business enterprise or other forms of organization; a background of the economic and legal environment as it pertains to profit and/or non-profit organizations along with ethical considerations and social and political influences as they affect such organizations and basic understanding of the concepts and applications of accounting, quantitative methods and statistics.

5602 Integrated Management Seminar II

Prerequisite(s): Graduate business student.

The common body of knowledge in business administration comprising the following areas: a background of the concepts, processes and institutions in the financing of the business enterprise or other forms of organization; a background of the economic and legal environment as it pertains to profit and/or non profit organizations along with ethical considerations and social and political influences as they affect such organizations and basic understanding of the concepts and applications of accounting quantitative methods and statistics.

5V95 Internship in Business**1 to 6 sem. hrs.**

Prerequisite(s): Minimum of twelve hours of graduate credit.

Three to six months of work experience in a domestic or international company. The work experience should be integrated into students' overall graduate program in such a way as to provide meaningful application of previously studied course material. A written report of the work experience shall be submitted to the director of the internship.

5V98 Special Studies in Business**BUSINESS LAW (BL)****5105 Employment Law**

Prerequisite(s): Admission to Executive MBA program.

The purpose of this course is to analyze the impact of employment-related statutes and court decisions on the business environment. The focus of the class will be on the impact of these laws for managers and those responsible for making employment-related decisions in the workplace. The laws will be examined from a societal (macro) perspective, as well as firm (micro) perspective. Students will participate in reviewing and drafting human-resource-related policies.

5171 Legal Aspects of Business

Prerequisite(s): Admission to Executive MBA program.

This course provides a comprehensive overview of legal issues currently at the forefront of the increasingly complex body of laws challenging business managers. Students will be able to recognize legal issues and manage legal risks in business decision-making. The course will also acquaint students with the essential processes by which law is created and changed. Students will be challenged to increase their ethical sensitivity by exposing them to

business-related legal problems that have ethical issues.

5303 Seminar in Employment Law

Prerequisite(s): Graduate standing.

A study of the legal and regulatory framework governing the employment relationship, with particular emphasis on a business manager's role in providing the informed leadership necessary to maintain a workplace free of discrimination. The course will include topics such as employment contracts, equal-opportunity law (discrimination, sexual harassment, affirmative action), wrongful discharge, and employee privacy.

5304 Legal Aspects of Financial and Commercial Transactions

Prerequisite(s): Graduate standing.

Legal issues encountered in conducting financial and commercial business transactions in business. Students will gain knowledge to prepare them to participate in these transactions, particularly with regard to financial and accounting aspects of the transactions. The course will include a study of laws relating to business organizations, sales, commercial paper, secured transactions, documents of title, bankruptcy, securities regulations, and accountants' legal liability.

5305 Legal Aspects of Management Decisions

Prerequisite(s): Graduate standing.

Application of law to managerial decisions and the relationship between legal and business strategy examining the role of the courts; litigation and alternative dispute resolutions; fundamentals of contract, tort, and criminal law; government regulation of business; legal forms of business organizations; ethical considerations in business; international business transactions.

5310 Cyberlaw

Prerequisite(s): Graduate standing.

A study of legal issues relating to cyberspace and the management of technology. Students will examine emerging cyberlaw issues such as jurisdiction; ownership and protection of intellectual property; electronic commerce; regulation of privacy, security, and online speech; and computer crimes, as well as international law and ethical issues in this area. The course is designed to provide an active learning environment for business students to prepare them to effectively manage technological innovations.

5320 International Business Law

Prerequisite(s): Graduate standing.

Detailed review and discussion of laws related to conducting business internationally. Includes examination of Convention of International Sale of Goods and other laws related to contracts, barriers to entry into foreign markets and trade, determination of tariffs, import/export requirements, arbitration, licensing issues, and intellectual property concerns.

5V98 Special Studies in Business Law

1 to 6 sem. hrs.

Prerequisite(s): Graduate standing.

Individualized research in business law. Students' proposal for special study project must be approved by the supervising faculty member. Offered on demand and by consent of the advisor for one to six semester hours. May be repeated under a different topic, but not to exceed six maximum degree hours.

BUSINESS LAW (MBL)**5110 Selected Topics in Business Law**

This course builds on the material from Health Care Jurisprudence and from Health Care Contracting and Negotiations. Topics reviewed may include sales, negotiable instruments, the corporation qua corporation, debtor-creditor relations, bankruptcy, real property, and the governmental regulation of business. Case studies will be developed by students and analyzed.

CHEMISTRY (CHE)

4127 Physical Chemistry Laboratory I

Prerequisite(s): CHE 1316 and credit or concurrent enrollment in CHE 4321.

Techniques of physical property measurement, data analysis, and interpretation, with emphasis on thermodynamics, electrochemistry, surface chemistry, solutions, and kinetics.

4128 Physical Chemistry Laboratory II

Prerequisite(s): CHE 4125 or 4127, and credit or concurrent enrollment in CHE 4322.

Advanced work in measurement and data analysis techniques, with emphasis on lasers, molecular spectroscopy, and photochemistry.

4207 Preparative Inorganic Chemistry

Prerequisite(s): CHE 3238 and either 4125 or 4127; or consent of instructor.

A wide range of experimental techniques currently used in preparative inorganic chemistry research. Such techniques include dry bag, inert atmosphere, ion-exchange, and vacuum line manipulations; electrolytic, non-aqueous solvent, and tube furnace preparations. Emphasis will be given to both the preparation and characterization of compounds prepared in the laboratory.

4217 Instrumental Analysis Laboratory

Prerequisite(s): CHE 4125 or 4127, and either credit or concurrent registration in CHE 4316.

Laboratory work in instrumental analysis with an emphasis on spectroscopy, separations, and electrochemical methods.

4237 Advanced Organic Laboratory

Prerequisite(s): CHE 3238 and 3332.

Advanced organic synthesis, purification and analysis techniques, including the use of instrumental methods, such as inert atmosphere techniques and modern analytical and preparative chromatography.

4301 Inorganic Chemistry

Prerequisite(s): CHE 4321.

Quantum mechanics, prediction of reaction energetics by thermodynamics (Born-Haber cycles and oxidation potentials), ionic crystals and radii, structure and bonding theories, coordination chemistry, kinetics and mechanics, and acid-base theories.

4316 Instrumental Analysis

Prerequisite(s): CHE 4321 or 4327.

Introduction to instrumental methods of analysis including spectroscopy, separations, and electrochemical methods.

4321 Physical Chemistry I

Prerequisite(s): CHE 1316, MTH 2321, and PHY 1430; and CHE 3332 or consent of instructor.

Gases, liquids and solids, phase changes, electrochemistry, and the principles of kinetics and thermodynamics. (Not applicable to a major in biochemistry.)

4322 Physical Chemistry II

Prerequisite(s): CHE 1316, MTH 2321, and PHY 1430; and CHE 3332 or consent of instructor.

Postulates of quantum mechanics. Application of quantum theory to simple models: particle in a box, rigid rotor, and harmonic oscillator. Electronic, rotational, and vibrational motion in molecules. Molecular energy levels and spectra. Electronic structure of atoms and molecules. Basic concepts of statistical thermodynamics.

4324 X-ray Diffraction and Spectroscopy

Prerequisite(s): CHE 4321 or consent of instructor.

Principles of X-rays, X-ray diffraction, and X-ray spectroscopy. These principles will be

applied to the qualitative and quantitative analysis of solids. Practical experience with X-ray equipment will be required.

4334 Organic Spectroscopy

Prerequisite(s): CHE 3238 and 3332 with grades of B or above; or consent of instructor.

The most common spectroscopic methods including infrared, ultraviolet-visible, nuclear magnetic resonance and mass spectroscopies, with emphasis on the practical use of NMR and MS in structure determination problems.

4341 General Biochemistry

Prerequisite(s): CHE 3332.

Structure and dynamics of compounds of biological interest.

4342 Topics in Human Biochemistry

Prerequisite(s): A grade of C or better in CHE 4341 or BIO 4307 or BIO 4341.

Topics in selected areas of human biochemistry such as hormone action, neurotransmission, vision, digestion, transport.

5050 Chemistry Colloquium

A weekly, graduate-level seminar featuring speakers from science departments at Baylor, industry, medical schools, and other universities.

5150 Graduate Seminar

Prerequisite(s): Enrollment in the graduate program.

A seminar program in which students will be required to present a paper for evaluation before the graduate faculty and other graduate students. Must be taken two times for the master's degree and three times for the Ph.D. degree. May not be used to fulfill course work requirements.

5179 Research Seminar

Prerequisite(s): Enrollment in the graduate program.

A weekly colloquium in which students are required to present papers and study the literature in the area of their research project. May be repeated, but no more than three semester hours may be counted on a master's degree and no more than six may be counted on the Ph.D. degree. May not be used to fulfill course work requirements.

5301 Chemistry of the Elements

Prerequisite(s): CHE 4301 or consent of instructor.

Comparative chemistry of the Main Group and Transition elements; relationships between structure and reactivity; energetics and kinetics of inorganic reactions.

5302 Symmetry and Group Theory in Chemistry

Prerequisite(s): CHE 4301 or consent of instructor.

Application of symmetry and group theory to chemical bonding and spectroscopic selection rules; use of character tables; electronic and vibration spectroscopy.

5305 Organometallic Chemistry and Homogenous Catalysis

Prerequisite(s): Consent of instructor.

Chemical reactions of organometallic compounds and their role in homogeneous catalysis with emphasis on the transition metals. Reactivity patterns and reaction mechanisms in organometallic chemistry. Factors influencing stabilities and reactivities of metal-carbon bonds.

5310 Advanced Chemical Instrumentation

Prerequisite(s): CHE 4217 and 4316.

Principles of chemical instrumentation, including principles of electronic signal handling, sources of noise and signal-to-noise theory, noise reduction techniques such as modulation and phase-sensitive detection, introductory information theory, introductory geometrical optics, and vacuum systems.

5314 Separation Science

Prerequisite(s): CHE 4316 or consent of instructor.

Theoretical foundations and practical applications of analytical separations with emphasis on gas, liquid, supercritical fluid, and ion chromatographies.

5315 Electroanalytical Chemistry

Prerequisite(s): CHE 4316 or consent of instructor.

Modern electroanalytical techniques and their application to analytical, kinetic, mechanistic, and synthetic problems.

5316 Analytical Spectroscopy

Prerequisite(s): CHE 4316.

Theoretical and practical aspects of analytical optical spectroscopy with emphasis on instrumentation.

5320 Thermodynamics and Statistical Thermodynamics

Prerequisite(s): CHE 4322.

Principles of classical and statistical thermodynamics.

5322 Chemical Kinetics and Mechanisms

Prerequisite(s): CHE 4322.

Theory of rate processes and the use of kinetic data in the interpretation of reaction mechanisms.

5323 Structural Studies by X-ray Crystallography

Prerequisite(s): CHE 4324.

Preliminary studies of X-ray structure determination and solving the phase problem by various techniques to be learned before employing methods of structural refinement. Results and conclusions derived from refined structures will be applied to chemical research problems. Practical experience of crystal structure analysis will be the main emphasis.

5325 Quantum Chemistry

Prerequisite(s): CHE 4322.

Comparison of classical and quantum mechanics and application of quantum mechanics to electronic structure of the atoms and to the study of molecules and chemical bonds.

5326 Lasers and Molecular Spectroscopy

Prerequisite(s): CHE 4321 and 4322.

Properties of lasers and the fundamental principles of laser operation. Modern application of lasers to the study of spectroscopy and energy flow in atoms and molecules.

5331 Stereochemistry

Prerequisite(s): CHE 3332 and credit or concurrent enrollment in CHE 4322.

The stereochemistry of compounds of carbon and other elements, steric effects on physical and chemical properties of compounds, and recent developments in the field.

5334 Heterocyclic Chemistry

Prerequisite(s): CHE 3238, 3332 with grades of B or above; or consent of instructor.

The chemistry of heterocyclic compounds including substances containing nitrogen, oxygen, and sulfur. Synthesis, typical reactions and reaction mechanisms will be emphasized.

5335 Physical Organic Chemistry

Prerequisite(s): CHE 3238 and 3332 with grades of B or above; and credit or concurrent enrollment in CHE 4321; or consent of instructor.

Organic reaction mechanisms, including kinetics, steric and electronic effects, and molecular orbital considerations.

5345 Selected Topics in Biochemistry

Selected areas of biochemistry with special emphasis on current research.

5346 Biochemistry of Recombinant DNA and Biotechnology

Prerequisite(s): CHE 4341 or BIO 4307.

Basic elements of recombinant DNA, genetic engineering, solid phase protein and DNA synthesis, immobilized enzymes affinity chromatography, enzyme-linked immunology, and related techniques.

5347 Physical Biochemistry

Prerequisite(s): CHE 4341 or BIO 4341; and CHE 4321 or 4327; or consent of instructor.

Theory and applications of physical chemistry to systems of biological interest including such topics as reaction kinetics, protein folding and denaturation, ligand interactions, x-ray diffraction of proteins and nuclear magnetic resonance spectroscopy.

5348 Enzymology

Prerequisite(s): CHE 4341 or BIO 4307.

Kinetics, mechanisms, regulation, and other topics related to enzyme-catalyzed reactions.

5V98 Graduate Research

1 to 10 sem. hrs.

Prerequisite(s): Graduate standing.

Required of all graduate students. For research credit prior to admission to candidacy for an advanced degree. Credit will be given for the amount of work done. May be repeated for credit through 45 hours.

5V99 Thesis

1 to 9 sem. hrs.

Credit for the amount of work done. In no case will fewer than six semester hours be accepted for a thesis. Required of all master's students.

6V99 Dissertation

1 to 9 sem. hrs.

Required of all doctoral candidates. In no case will fewer than twelve semester hours be accepted for a dissertation.

CHINESE (CHI)**4301 Chinese Literature and Culture I**

Prerequisite(s): CHI 3302 or consent of instructor.

An analytical study of the representative works of literature, history, and philosophy from the early Zhou through the Han dynasties.

4302 Chinese Literature and Culture II

Prerequisite(s): CHI 3302 or consent of instructor.

An analytical study of the representative works of literature, history, and philosophy since the Wei dynasty.

CHURCH-STATE STUDIES (CHS)**4303 International Human Rights (Cross-listed as PSC 4303)**

Prerequisite(s): Upper-level standing.

The philosophy and implementation of human rights protection in the United States and abroad.

4314 Religion and Politics in Contemporary Africa (Cross-listed as AFS 4314)

See AFS 4314 for course information.

4350 Religion and Terrorism in the Modern World (Cross-listed as HON 4350)

Prerequisite(s): Upper-level standing and consent of instructor.

The conflicts and conciliations that have arisen between secular and spiritual realms from ancient times to the present day in both the theory and practice of policymaking.

4360 Religion and the Body Politic (Cross-listed as HIS 4360, PSC 4360, and REL 4360)

Theological foundations, historical roles, and political directions of religion in the body politic in the United States. Particular attention will be given to the ways in which religion has been and is involved in the body politic and the political consequences of religion in the life of the nation. Note for undergraduate religion majors: This course or CHS 3339 will be accepted as three elective hours on a religion major, but will not be accepted for credit on a minor in religion or toward the six hour religion requirement by the University.

4367 The Jewish Experience and U.S. Church-State Relations

The Jewish experience, with particular attention to church-state relations, in the Colonies and in the United States. Related American historical documents will be studied.

4370 Politics and Religion (Cross-listed as PSC 4370)

See PSC 4370 for course information.

4376 Eastern Perspectives on Church and State (Cross-listed as HIS 4376)

Prerequisite(s): Upper-level standing.

The theory and practice of “church-state” relations from the “Eastern” perspective. Special attention will be paid to the question of the nature of power and its utilization in both secular and spiritual realms.

4378 Religion & Politics in the Middle East (Cross-listed as MES 4378)

Prerequisite(s): Upper-level standing.

An examination of the relationship between religion and politics in select countries of the Middle East.

4379 Islam and Democracy (Cross-listed as PHI 4379 and PSC 4379)

Prerequisite(s): Upper-level standing.

Examines the evolution of political philosophy and institutions in Muslim culture.

4385 Religious Ethics in a Liberal Democracy (Cross-listed as PHI 4385)

Prerequisite(s): Upper-level standing.

Addresses both historical and contemporary arguments about the relationship between religious morality and liberal democracy. Pays particular attention to the debate about the role of religious forms of ethics/morality in public debate, public choices, and the decisions of political actors.

5338 Seminar on Church and State in Modern Europe (Cross-listed as HIS 5338, PHI 5338, and REL 5338)

A survey of church-state relations in modern Europe from 1648 to the present. Particular attention is paid to European separationist models, including laicite, secularism and belief in Europe today, and the increasing significance of Islam.

5339 Seminar on Church and State in the United States (Cross-listed as HIS 5339, PSC 5339, and REL 5339)

A seminar offered in conjunction with the departments of history, political science, religion, and sociology-anthropology; a historical examination of the emergence of the religion clauses in the American Constitution and the judicial interpretations given these clauses in the light of America's claim of a free and pluralistic society, with special attention given to contemporary church-state issues in American society.

5341 Seminar on Church-State Relations in the Modern World (Cross-listed as PSC 5341 and REL 5341)

A study of the major contemporary patterns of church-state relations outside the United States, with attention placed on the role played by religion in the quest for national identity and in international affairs. The course may be repeated once when content differs.

5342 Seminar on Religion, Law, and Politics (Cross-listed as PHI 5342, PSC 5342, and REL 5340)

A historical examination of liberal and republican traditions of government and their relationship to church-state relations, with particular emphasis on the influence of both traditions on the American constitutional system. Special attention is given to communitarianism and individualism, especially in their treatment of religion-as competing systems in rights-based liberal democracies.

5361 Seminar on Religion and Politics in America (Cross-listed as HIS 5361, PSC 5361, and REL 5361)

A readings and research seminar covering the relationship of religion and politics throughout American history. Special attention will be given to the ways that the intersection of religion and politics both shape and is shaped by the larger American culture.

5369 American Civil Religion (Cross-listed as AMS 5369, REL 5369, and SOC 5369)

A study of the religious, political, and social dimensions of civil religion, in American culture, with considerable attention given to the writings of contemporary interpreters of American and civil religion, such as Bellah, Herberg, Parsons, Walcott, and Marty.

5372 Church and State During the Reformation Era (Cross-listed as HIS 5372 and REL 5372)

Prerequisite(s): Graduate standing in church-state, history, or religion; or consent of instructor.

Church-state relations were among many cultural relationships that were redefined during Protestant Reformation period; however, scholars differ as to the reformers' influence in this transformation and in the development of liberal social orders throughout Europe. Martin Luther, John Calvin, Ulrich Zwingli, Anabaptist leaders, Anglican scholars, Catholic officials, and many others contributed unique and often conflicting views of the "appropriate" relationship between church and state. This course examines the broad contours of church-state thought during the Reformation period beginning with the conciliar movement in the 14th and 15th centuries, and ending with the Peace of Westphalia in 1648 and its influence in constructing the modern nation-states of Europe.

5385 Religion and Education in America: Exploring the Tensions and Possibilities (Cross-listed as EDC 5385)

See EDC 5385 for course information.

5V12 Internship in Church and State

1 to 6 sem. hrs.

Prerequisite(s): Graduate standing and consent of the Director of the Institute of Church-State Studies.

Internship of a minimum of three months of supervised, full-time employment in a field related to Church-State Studies, in organizations with emphases such as faith-based concerns, human rights, religious freedom, and social justice. Upon completion of the internship, the student will submit an internship final report on the work done during the internship and related scholarly material. The internship combines practical field experience with research.

5V85 Independent Study in Church and State

1 to 3 sem. hrs.

Prerequisite(s): Graduate standing and consent of instructor.

A tutorial course for M.A. and Ph.D. students in church-state studies to supplement other course requirements. The student and the professor in the student's field of interest will jointly develop a study program on an appropriate topic of special study. No student may take more than six hours in independent study during his or her graduate program and no more than three hours per semester.

5V99 Thesis**1 to 6 sem. hrs.**

Students register for the thesis and receive credit when the thesis is finally approved.

6100 Research and Writing in Church-State Studies

Prerequisite(s): Completion of necessary coursework for a Ph.D in the Church-State Studies or the Religion, Politics, and Society program.

This course is designed to strengthen the student's research and writing skills and knowledge of methodology in order to prepare for the dissertation prospectus. May be repeated once for credit with the director's approval.

6101 Prospectus Research and Development

Prerequisite(s): CHS 6100.

This course is designed to facilitate the development of the doctoral dissertation prospectus and preparation for comprehensive examinations leading to candidacy for the degree in Church-State Studies or Religion, Politics, and Society.

6333 Religion, Politics, and Society (Cross-listed as SOC 6333)

Analysis of religious change at the societal level with an emphasis on church-state relationships.

6345 Christian Faith and Education (Cross-listed as EDC 6345)

See EDC 6345 for course information.

6366 Seminar in Secularization and Desecularization

A survey of secularization in theory and practice, from its origins to contemporary theoretical debates. Topics covered include the origins of secularism, atheism as a secular religion, market models of secularization, and the concept of desecularization.

6V99 Dissertation**1 to 12 sem. hrs.**

Supervised research for the doctoral dissertation. A minimum of twelve semester hours will be received upon completion of the dissertation, which is required of all doctoral students.

CLASSICS (CLA)**4331 The Archaeology of Sicily and Southern Italy**

Study of monuments and topographical archaeology of southern Italy and Sicily. Readings include primary sources and analyses of excavated material.

4V01 Topics in Classical Literature

Prerequisite(s): Consent of instructor.

Various texts to be read (in translation) are selected to meet the needs of the student. With content changed, this course may be repeated up to a total of six semester hours.

COMMUNICATION SCIENCES AND DISORDERS (CSD)**4301 Introduction to Clinical Audiology**

Hearing sciences and approaches for evaluating hearing: anatomy and physiology of the ear, the decibel, ear pathology, pure-tone audiometry, speech audiometry, and acoustic-immittance audiometry.

4302 Language Therapy

Basic principles of therapy for children with language problems, including evaluation.

4309 Organic Communication Disorders

Prerequisite(s): CSD 3357.

Incidence, etiology, and symptoms of cerebral palsy, cleft palate, and aphasia. Therapy techniques and procedures.

4312 Advanced Clinical Audiology

Prerequisite(s): CSD 4301.

Routine and advanced audiologic measures, including masking and evoked-potential tests. Practical clinical experiences.

4352 Diagnostic Methods

A study of diagnostic methods used in speech and language pathology, including interviewing, taking case histories, testing, and counseling. Evaluation of the standardization, reliability, and validity of existing tests. Practical application is required.

4358 Speech Science

Basic sciences underlying speech and hearing: physics of sound, the decibel, instrumentation, speech production, speech perception, and audition.

4368 Introduction to Aural Rehabilitation

Prerequisite(s): CSD 4301 or consent of instructor.

Methods for rehabilitating persons with hearing impairment: evaluating communicative needs, amplification devices, auditory-visual training, and modes of communication for the deaf and hearing impaired.

4477 Clinical Methods

Prerequisite(s): CSD 1308 and 3308.

Methods for treating individuals who have communication disorders. Observation of therapy conducted in the Baylor Speech, Hearing, and Language Clinic is required.

4V85 Special Problems in Communication Sciences and Disorders

1 to 3 sem. hrs.

Prerequisite(s): Fifteen semester hours in Communication Sciences and Disorders.

A conference course providing additional study in communication sciences and disorders. May be repeated once for credit.

5149 Clinical Practicum in Speech Pathology

Practicum in evaluation and treatment of individuals who have communication disorders.

5304 Advanced Aural Rehabilitation

Prerequisite(s): CSD 4368.

Hearing aids, cochlear implants, vibrotactile devices, and therapy programs for hearing-impaired persons.

5311 Aphasiology

Etiology, symptomatology, and treatment of aphasia and kindred disorders.

5312 Fluency Disorders

Prerequisite(s): CSD 4307.

Nature, evaluation, treatment, and current research trends in stuttering.

5313 Augmentative Communication

Exploration of selection and teaching of alternative and augmentative communication methods and devices.

5314 Voice Pathology

Prerequisite(s): CSD 3308 and 4309.

Application of principles of voice science to the treatment of organic and functional voice disorders.

5316 Motor Speech Disorders

Etiologies, symptoms, classifications, evaluative procedures, and treatments of developmental and adult motor speech disorders.

5317 Cleft Lip and Palate

Etiologies, classifications, evaluation procedures, and management of communication disorders associated with cleft lip and palate and related orofacial dysmorphologies.

5318 Methods in Graduate Study in Communication Sciences and Disorders

Methods necessary to evaluate literature, to conduct research, and describe results in communication sciences and disorders.

5324 Adolescent Language and Learning Disabilities

Prerequisite(s): CSD 2318.

A neuropsychological approach to the etiology, classification, diagnosis, and treatments of learning disabled children.

5328 Diagnosis and Treatment of Dysphagia

Development of swallowing, etiologies, evaluative procedures, and management of swallowing disorders.

5332 Traumatic Brain Injury Seminar

Familiarizes students with research literature regarding the neuropathology, symptomatology, assessment and treatment of persons having traumatic brain injury.

5334 Multicultural Issues in Speech-Language Pathology

Relates cultural background to normal development of speech and language. Topics include sound system acquisition, syntax, pragmatics, and professional issues and concerns.

5337 Language and Literacy Research: Evidence-Based Practice

Contemporary research on language and reading disorders, evidence-based practice, and language/literacy methods of prevention, assessment, and treatment.

5338 Instrumentation and Advanced Speech Science

Prerequisite(s): CSD 4307 or consent of instructor.

Principles and techniques of electronics and new technology used in the diagnosis and treatment of pathologies of speech and swallowing, including videostrobolaryngoscopy, digital signal analyses, and flexible fiberoptic endoscopic evaluation of swallowing.

5351 Speech and Language Neurology

Neuroanatomy and neurophysiology as applied to the evaluation of normal and pathological speech and language behaviors.

5649 Speech Pathology Internship

Supervised off-campus experience in speech pathology. Intern placement will be related to students' specialized area of interest. Students must take a total of six hours.

5V07 Seminar in Audiology**1 to 9 sem. hrs.****5V35 Problems in Communication Sciences and Disorders****1 to 9 sem. hrs.**

Designed to give individual students opportunities for additional work in their area of concentration in either of the two divisions of the department. May be repeated once in a different semester for a maximum of six semester hours.

5V39 Advanced Clinical Practicum in Audiology**1 to 6 sem. hrs.**

Prerequisite(s): Nine semester hours in audiology including CSD 4301 and 5304.

Supervised practicum in audiology using speech audiometry. Hearing aid selection.

5V48 Seminar in Speech Pathology**1 to 9 sem. hrs.**

Published research, theoretical and clinical, in speech and hearing and allied fields.

5V99 Thesis**1 to 6 sem. hrs.****COMPUTER SCIENCE (CSI)****4321 Data Communications**

Prerequisite(s): CSI 3336.

Fundamentals of computer networking including data transmission, communication software, protocols, simple networks and internetworking.

4322 Numerical Analysis (Cross-listed as MTH 4322)

See MTH 4322 for course information.

4328 Numerical Linear Algebra (Cross-listed as MTH 4328)

See MTH 4328 for course information.

4331 Programming Language Design and Implementation

Prerequisite(s): CSI 4330.

Design and implementation of high-level languages, focusing on compiler design and implementation. Topics include data types, control structures, and the relationship between syntax and semantics. Course project includes designing and programming a compiler.

4335 Database Design I

Prerequisite(s): CSI 3342.

Concepts for current relational database design and implementation, including SQL, ER diagrams, normalization, JDBC, XML and DBMS components. Semester project designing a relational database.

4336 Introduction to Computation Theory

Prerequisite(s): CSI 3344.

Several models of computation and their related languages. Topics will include finite automata and regular languages, push-down automata and context-free languages, linear-bounded automata and context-sensitive languages. Turing machines and phrase structure languages, closure properties, decidability results, non determinism.

4337 Introduction to Operating Systems

Prerequisite(s): CSI 3336.

Operating system design and implementation. Topics include process control and synchronization, memory management, processor scheduling, file systems, and security. Course projects implement parts of an operating system. (Fee)

4341 Computer Graphics

Prerequisite(s): CSI 3334 and 3336.

Introduction to graphic representation and display of information and objects by computer. Topics include hardware display technology and algorithms for two-dimensional and three-dimensional graphics. The Graphical Kernel System (GKS) will be the graphic system model used for programming assignments. (Fee)

4344 Object-Oriented Development

Prerequisite(s): CSI 3342.

Object-oriented analysis and design methods. Group software projects. (Fee)

4350 Introduction to Artificial Intelligence

Prerequisite(s): CSI 3344.

Artificial intelligence techniques and methodology which treat knowledge and knowledge representation, formal logic, (classical propositional logic, first order predicate logic, automated theorem proving), pattern recognition; natural and programming language processing, (syntax, contextual constraints, semantics, compilers, LISP, PROLOG). (3-0)

4352 Principles of Data Mining

Prerequisite(s): CSI 3335 and MTH 3381.

The seven fundamental domains of data mining-classification, descriptive mining, exploratory data analysis, model building, pattern detection, predictive modeling, and retrieval by content, are defined and explored using the most vigorous algorithms applicable to each domain.

5010 Graduate Seminar

Prerequisite(s): Graduate standing in computer science.

Research presentations by every member of the graduate faculty and select advanced graduate students. Attendance at various functions is also required. Offered once a year during the fall semester.

5321 Advanced Data Communications

Prerequisite(s): CSI 4321 or equivalent.

Survey of current and seminal research in networking.

5324 Software Engineering

Methods for developing and maintaining software systems; system software life cycle, requirements elicitation, specification and design methods, planning, maintenance, configuration management, documentation and coding standards, cost estimation, metrics and quality attributes; class project.

5325 Introduction to Machine Learning

Prerequisite(s): CSI 4336 or consent of instructor.

An introduction to topics in machine learning, including supervised and unsupervised learning, modeling for regression and classification, naive Bayes methods, kernel-based learning, support for vector machines, statistical and mathematical models for learning, and model assessment and prediction.

5335 Database Design II

Prerequisite(s): CSI 3334 and 4335.

A continuation of database system implementations to include object-oriented and knowledge-base systems. Additional topics covered are physical-data organization, database integrity, security, transaction management, and distributed database management.

5336 Data Models

Prerequisite(s): CSI 4334 and 4335.

Conceptual and abstract parts of databases. Topics include commonly used data models (hierarchical, network, relational, semantic network and infological) and the use of data models for database design and operation.

5337 Advanced Operating Systems

Prerequisite(s): CSI 4337 and STA 4385; or PSY 4300.

Advanced topics in operating systems including queueing models, performance measurement and evaluation, security and protection, and design issues involved in operating system design.

5338 Advanced Computer Organization

Prerequisite(s): CSI 3338 or consent of instructor.

Advanced topics in computer systems organization, including techniques used in large-scale computer systems, parallel and pipeline architectures, stack machines, and other non-von Neumann architectures.

5342 Software Specification and Design

Prerequisite(s): CSI 4336.

Overview and comparison of existing formal specification methods. In-depth description and use of an existing method, such as algebraic specifications. Mathematical foundations of the method. Applications to practical examples. Use of an existing specification language.

5343 Introduction to Human Computer Interaction

Introduction to Human Computer Interaction is a research seminar designed to explore the issues of design, organization, implementation, communication, training, and management which confront humans as users of computer environments.

5344 Analytic Models

Prerequisite(s): STA 3381.

Computer modeling of a variety of systems. Topics include selections from: linear programming, network analysis, queueing theory, game theory, and statistical methods and models.

5345 Parallel Systems

Prerequisite(s): CSI 4336 or concurrent enrollment.

Description and evaluation of models for parallel systems. Centralized versus distributed systems. Overview of existing programming languages and hardware architectures. Problems and trade-offs encountered during implementation. Use of several existing parallel languages. Use of parallel hardware.

5350 Advanced Algorithms

Prerequisite(s): CSI 3344 or graduate standing.

Advanced data structures, algorithm design, and analysis. Topics include common data structures, algorithms, implementation, classes of algorithms, algorithm analysis, computational tradeoffs, and adaptation of familiar algorithms to new problems.

5352 Advanced Object-Oriented Development

Prerequisite(s): CSI 4344.

Object-oriented analysis, design, and implementation using C++ and a graphical user interface. Principles, methods, and building blocks. Identification and implementation of objects. Class libraries and widget sets. Group projects.

5353 Multimedia Systems

Overview of systems requirements to handle multimedia information. Topics include synchronization, content-based information retrieval, protocols, and media type definitions. Theory and applications are covered.

5355 Data Analysis

Prerequisite(s): Graduate standing.

Introduces the fundamental data analysis algorithms used in research.

5V90 Special Problems

1 to 9 sem. hrs.

Prerequisite(s): Consent of instructor.

5V92 Master's Research

1 to 3 sem. hrs.

Prerequisite(s): Consent of instructor.

Concentrated research for the purpose of determining whether the thesis or project option is most appropriate, and for the initial selection of a topic area.

5V93 Special Topics in Computer Science

1 to 4 sem. hrs.

May be repeated for credit, provided topic is not duplicated, for a maximum of eighteen semester hours total.

5V96 Master's Project**1 to 3 sem. hrs.**

Prerequisite(s): Consent of instructor.

5V99 Thesis**1 to 9 sem. hrs.**

Prerequisite(s): Consent of instructor.

CURRICULUM AND INSTRUCTION (EDC)**5302 Linguistics: Implications for Improving Reading Instruction**

Several linguistic fundamentals of the American English language and the manner in which these fundamentals may affect children's reading development. The linguistic fundamentals investigated are origin of the language, language development, phonology, morphology, and syntax. Special emphasis is placed on the function dialects have in children's reading development. An integral strand of the course is instruction strategies for implementing the linguistic fundamentals in classroom reading instruction.

5303 Models of Teaching and Learning

Teaching-learning situations. Emphasis on learning techniques, methods, and materials of instruction, functions of the different subject matter areas. Special projects assigned to each student.

5304 Problems in Teaching Reading

Designed to give the classroom teacher, administrator, and reading specialist insight concerning the problems of the retarded reader. Causes, diagnostic procedures, and remedial methodology for increasing the reading efficiency of children will be emphasized.

5310 Principles and Strategies for Effective Discipline and Classroom Management

A study of the principles of classroom discipline and management, including analysis of the dynamics of the classroom, application and evaluation of interactive models of classroom management, and legal issues of student discipline.

5311 Introduction to Qualitative and Quantitative Research

An introduction to the research process applied to Curriculum and Instruction topics, including design of the study, data collection, and analysis using qualitative and quantitative methods. Includes a discussion of variables, sampling, reliability, validity, and ethics of research. Students will read and interpret published research and develop a research proposal.

5312 Methods and Materials: Alternative Approaches for Teaching Reading

Adapting materials and methods of reading instruction to aid teachers meet the identified needs of learners.

5313 Media Literacy Across the Curriculum

An examination of media literacy and its place in the curriculum. Students will examine major themes and issues in media literacy education; acquire skills in deconstructing, using, and creating various media; and develop curriculum involving media literacy including appropriate methods of assessment.

5314 Clinical Experiences in Teaching Reading

Prerequisite(s): EDC 5304 or 5312; or consent of instructor.

Remedial and clinical methodologies and techniques utilized with pupils referred because of reading disabilities.

5315 Foundations of the American Economy (Cross-listed as AMS 5315)

Behavior of households and business firms in determining the allocation of scarce resources among competing needs in a free market economy for those with no or little previous training in economics. Basic economic analysis is introduced as an aid in understanding the problems of energy,

consumerism, unemployment, inflation, and pollution, among others. The course is designed to meet the requirements of Texas state law mandating instruction in free enterprise and economics education.

5316 Basic American Documents (Cross-listed as AMS 5316)

The development of the American political, economic, and social system by reference to the basic documents which undergird that structure. Emphasis is placed on understanding how the system developed and how that development reflected the thoughts of the American public as reflected in those documents. Particular emphasis is placed on the Constitution, court interpretation, and landmark Federal legislation.

5317 Special Techniques in Secondary Schools

Special techniques and methodology that the modern teacher must now master. Emphasis is given to diagnosing learning difficulties, specified techniques in directing learning activities, and ways of meeting the individual differences found among high school pupils.

5318 Elementary Language Arts

Development of strategies for facilitating communication skills in the elementary grades and integration of language arts across the curriculum.

5319 Reading in the Secondary School

The application of developmental reading precepts to the reading requirements of the secondary content subjects. Peer teaching emphasizes techniques and materials for individualized reading assignments.

5320 Elementary Science and Social Studies

A study of the national standards and Texas requirements for science and social studies content in the elementary classroom with an emphasis on teaching strategies to promote active learning.

5321 Contemporary Curriculum-Designing and Implementing

Contemporary philosophies and practice for designing and implementing the school's instructional program for administrators, supervisors, and teachers. In addition to placing an emphasis on the changing philosophies and patterns for implementing the curriculum, stress will also be given to current innovations and experimentation in curriculum.

5322 Learning and the Young Child

Relation of theories of learning and concept development to the young child.

5323 Contemporary Curricula for the Young Child

Application of learning and developmental theories to the design and evaluation of curricula for the young child.

5324 Alternative Models of Instruction for the Young Child

Use of research literature to examine, understand, and evaluate various models of instruction for the young child.

5325 Current Issues and Concerns in Educating the Young Child

Legal, social, and economic issues that affect educational processes for the young child.

5326 A Process Approach to Teaching Writing

A process approach to teaching writing K-12 explored in a workshop environment.

5327 Research and Advanced Methods of Teaching Writing

Recent practices and research in teaching writing K-12. Students will engage in some aspect of classroom research in writing.

5328 Language and Learning across the Curriculum

Emphasis on teaching writing across the curriculum.

5329 Secondary English Curriculum

Content of secondary English, instructional methods, and teaching materials for grades 7-12. Contemporary concerns relevant to the curriculum development of the English language arts in the components of language, composition and literature. Includes a review of recent research in the teaching of English.

5330 Contemporary Models of Character Education

Current practices in character education (K-12) with an emphasis on schoolwide models and the materials and resources available to support character education initiatives. The arguments of both advocates and critics of character education will be considered.

5331 Assessment Issues in Mathematics Education

Students will explore current issues related to assessment, multiple dimensions of assessment, and the process of assessment for mathematics education.

5332 Mathematics in the Elementary Grades

Introduction to a constructivist approach for teaching mathematics in grades K-5, emphasizing NCTM Principles and Standards. Includes a field-experience working with elementary and/or middle school students.

5333 Mathematical Immersion to Advance Understanding

This course is designed to engage students in mathematical problem solving and problem posing and examining related research while immersing them in mathematics. The emergence of advanced mathematical understandings will aid students in the development of strategies that promote mathematical learning, particularly related to their professional educational work.

5334 Numerical Understanding: Rational Numbers

Designed to allow graduate students to explore and analyze research, experiences, case studies, and theory related to the teaching and learning of numerical thinking across grade levels. In particular, students will focus on rational numbers. Students will be able to investigate curriculum standards for K-12, instructional strategies in teaching rational numbers, and recent research on conceptual approaches.

5335 Research in Algebraic Thinking

Research in Algebraic Thinking is designed to allow graduate students to explore and analyze research, experiences, case studies, and theory related to the teaching and learning of algebraic thinking across grade levels. Students will investigate algebraic curriculum standards for K-12, instructional strategies in teaching algebra, and recent research on conceptual approaches.

5341 Curriculum Theory and Practice

Students read and discuss the most influential works in the history of curriculum development and deliberation from the past 100 years. Students also are introduced to the main philosophical traditions within curriculum theory and practice.

5347 Advanced Curriculum Studies

An in-depth analysis of curriculum philosophies, including perennialism, idealism, realism, experimentalism, and existentialism. Emphasis on curriculum planning using the philosophies and learning theory to meet needs of contemporary students.

5348 Issues in Curriculum Development

Designed essentially for administrators, supervisors, and curriculum coordinators, this course investigates and analyzes current issues in curriculum theory and development with particular attention to curriculum revision and reform.

5349 Comparative Education

Comparative study of social, political, cultural and factors which influence international education. Emphasis on reform movements, curriculum and pedagogical characteristics of schools throughout the world.

5350 Teaching for Understanding

Exploration and analysis of research, experiences, technology, and theory related to the teaching and learning of major concepts across grade levels. Students will investigate curriculum standards for K-12, National and International test results and implications, and recent research on conceptual approaches. Opportunities for exploring grade-level and content interests will be provided.

5352 Curriculum Development for the Gifted

Development of differentiated curricula for gifted students. Students will learn the components of a scope and sequence in gifted programs, how to adapt for individual differences, how to organize thematic, interdisciplinary content, and how to teach higher-level cognitive skills.

5353 Creativity and Strategies for Teaching the Gifted

Concept of creativity and its relationship to the development of programs for the gifted and talented. Topics within this course will include instruments and techniques for identifying creativity, theories and models of creativity, instructional strategies for enhancing creativity, futuristics, and problems of creatively gifted.

**5358 Seminar: Organizing and Administering School Reading Programs and Reading Clinics
(Cross-listed as EDA 5358)**

See EDA 5358 for course information.

5370 Technology Fundamentals

Explores primary concepts and operation skills related to three areas of technology: data/computer technology, communication technology, and video technology. Emphasis is placed on mastery of basic principles and hardware configuration and operation. Extensive lab experiences are required.

5372 The Instructor and Technology

Prerequisite(s): EDC 5370 or consent of instructor.

Focuses on the participant's future role as an instructor and the participant's personal and professional use of various technologies (data/computer, communication, and video) to gather information, to conduct research, to communicate with learners and colleagues, and to prepare material for publication and/or presentation.

5374 Curriculum and Technology

Prerequisite(s): EDC 5370 or consent of instructor.

Prepares future instructional personnel to integrate technology (data/computer, communication, and video) into curricular applications. Emphasizes the application of technology in student learning activities.

5375 Courseware Development

Prerequisite(s): EDC 5370 and 5374; or approval of instructor.

Examines technology-driven instructional systems. After reviewing existing systems, participants will design and develop technology-based course materials. An emphasis will be placed on the use of authoring languages and/or applications to present course material and to track student interaction.

5376 Multimedia Development

Prerequisite(s): EDC 5370 and EDC 5374; or approval of instructor.

Examines the instructional design and production of multimedia curricular materials. Principles of human and machine interaction, hardware and software configurations, and production practices will be studied as participants create multimedia curriculum in a designated subject area.

5377 Practicum in Technology

Prerequisite(s): EDC 5370 and 5372; or consent of instructor.

Placement in a "technology-rich" environment will expose the participant to addressing the technology needs of end users.

5385 Religion and Education in America: Exploring the Tensions and Possibilities (Cross-listed as CHS 5385)

A critical examination of the historical and contemporary relationship between religion and public education. Particular attention will be paid to the history of religion and education, contemporary church-state law and education, and how religion can and should be addressed in the curricula in constitutionally appropriate ways.

5390 Seminar: Education

Designed to meet the individual needs of graduate students. May be repeated.

5391 Social Foundations of Education

This course will provide students the opportunity to encounter several highly influential books, ideas, and individuals from the fields of Social Foundations of Education and Curriculum. As an interdisciplinary, Foundations course, the instructor will assist students as they consider the field of education from a broad liberal arts perspective.

5499 Graduate Teaching Internship

Prerequisite(s): Acceptance into the Strickland Scholars program.

Designed for students participating in the Strickland Scholars M.S.Ed. plus certification program. Intern must obtain a full-time teaching position in a public school in McLennan County. Intern will teach for one academic year under the supervision of a university supervisor and a mentor teacher at the assigned school. Must be repeated once.

5663 Montessori Preprimary and Elementary Curriculum Design and Teaching Strategy

Prerequisite(s): EDC 5660.

Introduction to the Montessori preprimary and elementary method of education, emphasizing the continuum of development in the young child (birth to age 9). Curriculum areas and classroom management skills as well as philosophical principles. Preparation for assisting in Montessori preprimary classrooms.

5V95 Special Problems in Education**1 to 4 sem. hrs.**

Designed to meet the individual needs of graduate students. May be repeated.

5V99 Thesis**1 to 6 sem. hrs.**

Credit received when the thesis is finally approved.

6101 Professional Seminar

Introduction to responsibilities of university faculty, including applying for university tenure-track positions, preparing presentation proposals, writing for publication, and teaching university students, as well as discussion of resources to support research and writing.

6310 Seminar in Curriculum and Instruction

Elementary and secondary education examined particularly with regard to curriculum and curriculum issues, trends, and development.

6330 The History of American Education

Seminar focusing on the philosophical history of American education with emphasis on primary source documents. Includes a discussion of the social, cultural, and historical contexts for development of this distinct intellectual tradition.

6336 Qualitative Research and Data Analysis (Cross-listed as EDP 6336)

See EDP 6336 for course information.

6338 Grant Writing (Cross-listed as EDP 6338)

See EDP 6338 for course information.

6339 Ethnographic Research Methods in Education (Cross-listed as EDP 6339)

Prerequisite(s): EDP 5334 and EDP 5335 or equivalent; or consent of instructor.

A study of ethnographic research methods, data collection and procedures for data analysis.

6340 Research in Mathematics Education

Prerequisite(s): EDP 5335.

Research in mathematics education with emphasis on understanding current research, applied methodologies, and implications for teaching and learning mathematics. Includes practical skills in data collection and analysis with individualized and critical assistance given in application of technological tools, research types (qualitative and quantitative), and analysis techniques.

6345 Christian Faith and Education (Cross-listed as CHS 6345)

This course examines the historical and contemporary relationship between the Christian tradition and education. It specifically addresses historical and contemporary proposals that consider how Christianity influences teaching, research, and service within educational institutions.

6352 Trends in Educational Thought (Cross-listed as EDA 6352)

See EDA 6352 for course information.

6359 Mixed Methods Research Design and Analysis (Cross-listed with EDP 6359)

Prerequisite(s): EDP/EDC 6336 and EDP 5334.

This course focuses on applied mixed method designs that address the unique settings and systems of education, including data collection strategies for field work.

6370 Case Study Research Methods and Analysis in Education (Cross-listed as EDP 6370)

Prerequisite(s): EDP 5334 and 5335 or equivalent; or consent of instructor.

Case study research methods, data collection and procedures for analysis.

6390 Seminar: Education

Designed to meet individual needs of doctoral students. May be repeated.

6V99 Dissertation

1 to 6 sem. hrs.

DANISH (DAN)**5370 Danish for Graduate Students I**

Reading of intermediate and advanced Danish texts with emphasis on the works of Soren Kierkegaard. No previous language experience required, although prior training in German is helpful. Limited to graduate students or to undergraduates by petition. Does not count toward undergraduate foreign language requirement. No audits.

5371 Danish for Graduate Students II

Prerequisite(s): DAN 5370 or consent of instructor.

A continuation of DAN 5370. No audits.

ECONOMICS (ECO)**4312 Business Cycles and Forecasting**

Prerequisite(s): ECO 1305 or a minimum grade of C in ECO 2306 and 2307; not open to pre-business students.

Examines basic causes of fluctuation in business activity. Topics include an examination of exogenous and endogenous influences on Gross National Product and other measures of economic

activity, and the relationship between cycles in Gross National Product and cycles in particular industries and companies. The course emphasizes methods and techniques currently in use by business forecasters.

4323 The Environment and Economic Analysis (Cross-listed as AVS 4323 and ENV 4323)

See ENV 4323 for course information.

4345 Mathematical Analysis in Economics

Prerequisite(s): A minimum grade of C in ECO 2306 and 2307; and MTH 1309 or MTH 1321; and junior standing; not open to pre-business students.

Designed to acquaint the student with rudimentary mathematical techniques and their application to economic analysis.

5001 Research Seminar

Prerequisite(s): Graduate standing.

Presentation and discussion of current research in economics. Course will be graded pass/fail.

5002 Research Seminar

Prerequisite(s): Graduate standing.

Presentation and discussion of current research in economics. Course will be graded pass/fail.

5110 Key Global Economic and Strategic Issues

Prerequisite(s): Admission to Executive MBA program.

This course will enable the participant to see how economic analysis is applied to key global issues that affect management decisions at home and abroad. Questions related to globalization and interdependence among nations will be addressed.

5115 Demand Analysis

Prerequisite(s): Admission to MBA program.

Factors affecting the level of demand, methods of estimating the demand function, and methods of forecasting demand.

5116 Production and Cost Analysis

Prerequisite(s): ECO 5115.

How resources should be combined, how many units of output should be produced, and incremental analysis.

5117 Market Structure Analysis and Estimation

Prerequisite(s): ECO 5116.

How prices are determined under different market structures as well as how the firm deals with uncertainty.

5300 Foundations of the American Economy

Designed for those with no or little previous training in economics. Emphasis is placed upon the behavior of households and business firms in determining the allocation of scarce resources among competing needs in a free-market economy. Basic economic analysis is introduced as an aid in understanding the problems of energy, consumerism, unemployment, inflation, and pollution, among others. The course is designed to meet the requirements of Texas state law and economics education.

5307 Economics of Aging

Open to graduate students in the Hankamer School of Business only with consent of the Associate Dean for Graduate Programs. For the non-economist, an examination of the economic implications of the changing age structure of the population, the economic status of the elderly, labor force participation and retirement decisions, pension issues, and other macroeconomic implications. The course will provide an agenda for both the present and future challenges facing policy makers, planners, program administrators, and researchers in the field.

5310 Macroeconomic Analysis in the Global Economy

Prerequisite(s): Six semester hours of economics.

A seminar to analyze national and global economic issues. Topics covered include differences in the standard of living across countries; relative rates of economic growth across countries; effects of the “new economy” and the telecommunications revolution; effects of exchange rate changes on macroeconomic performance; fundamental causes of currency crises; implications of globalization for the effectiveness of macroeconomic stabilization policies; relative merits of fixed versus flexible exchange rates; and the links between international trade and economic growth.

5315 Microeconomic Theory and Business Decisions

Prerequisite(s): Six semester hours of economics.

A seminar designed to cover aspects of micro theory that are relevant for decision making within the firm. Emphasis is placed on the decision-making process. Numerous problems, cases, and examples are used to illustrate the theory.

5317 Contemporary Government and Business Relations

Prerequisite(s): Six semester hours of economics.

An examination of the many ways in which government and business interact. Topics covered include the historical development of government regulations of business; the current state of antitrust enforcement; issues involving multinational corporations; the basis for regulated markets and forces favoring deregulation; the impact of consumer protection policies and affirmative action policies on business; and the outlook for government and business relations in the future.

5318 Game Theory

Prerequisite(s): Admission to graduate program in Economics or consent of instructor.

The theory of games and strategic behavior with an emphasis on applications. Strategic form games, extensive form games, and games of asymmetric and incomplete information. Equilibrium concepts. Applications in the social sciences, particularly economics and political science, ranging from cartel behavior to international diplomacy.

5319 Economics for Business Decisions and Resource Valuations

Prerequisite(s): ECO 4315 or 5315.

Applications of economic theory in the measurement and valuation of resources, including study of cost-benefit analysis in public and private investment decisions. Other topics include externalities, anti-trust, regulation, property rights, and uncertainty.

5320 The Economics of Government

Prerequisite(s): Six semester hours of economics.

Economic rationale and effect of various taxes, user pricing, and the role of government in the allocation of resources, stabilization of the economy, and redistribution of wealth.

5321 Energy Economics (Cross-listed as ENV 5321)

Prerequisite(s): Six semester hours of economics.

Origins of the energy crisis, the effect of oil prices on inflation and the international monetary system, the origins and nature of OPEC, the economic feasibility of alternative energy sources, U.S. energy policy alternatives, and other current issues in the field of Energy Economics. A portion of the course is devoted to examining the energy industry in Texas and the Southwest.

5325 Seminar in Regional Economics

Prerequisite(s): Nine hours of economics or consent of instructor.

Adaptation of economic theory for use in regional economic analysis. Selected problems: urban renewal, transportation, plant location, individual location decisions, land use, regional economic growth, and structure.

5327 E-Commerce Economics

Prerequisite(s): Six hours of economics or consent of instructor.

This course applies tools of economic analysis to evaluate the evolving role of electronic

commerce in the United States and world economies. The course addresses theories of firm conduct and performance in the electronic marketplace; the role of information and e-commerce intermediaries; the economics of Internet advertising; intellectual property rights of digital products; national and international public-policy issues of e-commerce; the financial and monetary implications of electronic trading; and the broader implications of e-commerce for U.S. and world economic activity.

5330 Problem Areas in International Economics

Prerequisite(s): ECO 3305 and FIN 3310; or BUS 5902; or consent of instructor.

World economy with particular emphasis upon emerging problems relating to the international monetary system, the trend toward economic regionalism, the growth of the less developed countries, and economic relations between private enterprise economies and state trading enterprises. Basic theories of international economics are developed as a framework for analysis of policy issues.

5333 Foreign Exchange Markets and International Monetary Institutions (Cross-listed as FIN 5333)

Foreign exchange markets, emphasizing theoretical and empirical issues and their relation to the business environments. Topics include exchange rate regimes, efficiency, forecast measurement and management of foreign exchange risk forward and futures markets, options, swaps, and multi-currency bonds.

5334 Economic Development

Prerequisite(s): Six semester hours of economics.

Major issues involved in the process of development such as mass poverty, population growth, agricultural transformation, and trade.

5338 Seminar in World Economic Systems

Prerequisite(s): ECO 2305, 2306, 3305, or equivalent course work.

Economic institutions in a number of capitalist and socialist nations, and their relative success or failure presented in the context of country studies. Topics include the problems involved in making international statistical comparisons, the importance of the rise in the U.S. service sector, the operation of private and nationalized industries in Western Europe, lifetime employment in Japan, central planning in the Soviet Union, socialist economic reforms, international trade among and between Western and Eastern nations, and the convergence hypothesis.

5343 History of Economic Thought

Prerequisite(s): Nine semester hours of economics or consent of instructor.

Historical and analytical study of economic thought, beginning with Mercantilism and including the following schools of thought: Physiocratic, Classical, Marxian, Austrian, Neoclassical, Institutional, Keynesian, and Post-Keynesian.

5347 Econometrics

Prerequisite(s): Graduate standing.

Empirical estimation of economic relationships; behavioral (consumers), technical (firms), and institutional. It teaches proper use of linear estimation techniques along with problem identification and solution.

5350 Health Economics (Cross-listed as HPA 5350)

Prerequisite(s): ECO 5115 or 5315; or consent of instructor.

Application of economic principles to health care issues; examining economic efficiency in a variety of circumstances including the production and distribution of health services, health insurance, governmental programs, health care personnel and hospitals. Analysis of public in health and medical care from an economic perspective.

5360 Seminar in Corporate Finance (Cross-listed as FIN 5360)

See FIN 5360 for course information.

5362 Seminar in Corporate Short-term Financial Management (Cross-listed as FIN 5362)

See FIN 5362 for course information.

5365 Investment Management (Cross-listed as FIN 5365)

See FIN 5365 for course information.

5368 Seminar in Financial Markets (Cross-listed as FIN 5368)

See FIN 5368 for course information.

5370 Management of Financial Institutions (Cross-listed as FIN 5370)

See FIN 5370 for course information.

5410 Analysis of National and Global Business Conditions

Prerequisite(s): Acceptance into the executive MBA program.

Properties of typical business cycles: inflation, interest rates, stock prices, exchange rates, labor costs, sales, profits, capacity utilization, productivity, unemployment, international trade. The effects of government policy over the cycle and the linkages among the economies of different nations are also studied.

5415 Managerial Economics: Resource Management

Prerequisite(s): Acceptance into the executive MBA program.

DEMAND-how consumers allocate their scarce resources among various consumer goods and services. PRODUCTION-how firms allocate scarce resources among the alternative uses and how this translates into production costs. PRICING-how different market structures affect price and output determination and resource allocation.

5V98 Special Studies in Economics

1 to 6 sem. hrs.

Prerequisite(s): Nine semester hours of economics and consent of instructor.

This course may be taken for one to six semester hours of credit.

5V99 Thesis

1 to 6 sem. hrs.

ECONOMICS (MECO)**5132 Macroeconomic Analysis in the Global Economy**

Prerequisite(s): HCA 5309 and MECO 5330.

This seminar builds upon basic macroeconomic principles, applying economic models/theory to the global economies. Global macroeconomics seeks to explain the nature of association among economic forces in markets around the world, such as the impact of the United States fiscal deficit on increased foreign borrowing and forces causing the economic slump in Japan.

5133 Seminar in World Economic Systems

Prerequisite(s): HCA 5309 and MECO 5330.

This seminar explores differences among economic institutions, policy, and performance in countries around the world and provides information on the methods used to make economic comparisons across countries, examining the relative success or failure of these various economic states. Topics of discussion will revolve around major developments in the world economy.

5330 Principles of Macroeconomics

Prerequisite(s): HCA 5309.

This course introduces students to the performance of market economies. It addresses market dynamics that affect organizations and management decision-making in order to enhance the ability of the student to understand the context, source, and potential solutions for various problems and opportunities routinely encountered in the practice of management.

5331 Managerial Economics

Prerequisite(s): HCA 5309 and MECO 5330.

Managerial Economics concerns the efficient management of resources to achieve organizational or enterprise goals by applying economic theory and methodological techniques in the practice of management. This course is focused on the application of economic models, estimation techniques, and fundamental analysis in contemporary private and public markets.

EDUCATIONAL ADMINISTRATION (EDA)**5118 Competency Assessment and Development**

A process in which student performance is assessed in several skill areas including leadership, problem analysis, critical thinking, decision-making, sensitivity and communication. A professional development plan is developed for each student.

5127 Seminar: Personal and Professional Values and Ethics

A study of ethical issues and standards related to the practice of educational administration with an emphasis on understanding personal values and beliefs which influence practice.

5128 Seminar: Interprofessional Practice

Seminar designed to promote the collaboration of educators and other human service professionals in solving complex problems of children and youth in today's schools.

5129 Folio Assessment and Professional Development

Culminating assessment of students' progress in attaining competence for mid-management certification as evidenced by professional folios. Student folios will be evaluated by faculty and practitioner panels.

5131 Practicum: Contextual Domains

A field-based application of knowledge and skills in the contextual domain of practice including: philosophical and cultural values; legal and regulatory applications; policy and political influences; and public and media relationships.

5191 Introductory Graduate Seminar

This one-hour seminar will provide an introduction to the field of student service in terms of philosophy, principles of good practice, standards of preparation and professional development. Special focus will be given to the relationship of graduate preparation to the development of a coherent practice.

5194 Leadership Theory

This one-hour seminar is designed to encourage new student affairs professionals to consider ways in which leadership contributions are made in the context of higher education.

5195 Seminar: The Art of Advising and Mentoring

Advising and mentoring of students in higher education settings will be examined. Understanding this importance and dynamic nature of mentoring relationships and advising students and student organizations is critical to the success of student affairs practitioners. Current literature on mentoring will be studied.

5196 Student Services in a Multicultural Society

In this course students will be exposed to theory and research pertaining to student cultures. Emphasis will also be given to exploring the manner in which student services professionals work with minority students in implementing multicultural programs on campus.

5289 Foundations & History of Higher Education Administration

The history of higher education and student affairs is explored through an introduction to the various fields, organizations, and functions in student affairs, including trends, issues and ethics.

5300 Research Applications in Educational Administration

Research methods, design, and application related to the practice of educational administration.

5305 International and Comparative Education

Education in the United States compared with that of selected foreign countries. Designed to provide a world view for educational leaders. Foreign study/travel required. (Also available to master's-level students.)

5322 Principles and Practices of Supervision

Philosophical foundations, principles, and practices of effective supervision in public schools. Special attention is given to the supervisory methods used to improve instruction at all grade levels.

5323 Problems in Supervision

Treatment of functional relationships in a program of supervision in the public schools. Case studies will be analyzed as practice in making the transition from theory to application of supervisory practice. Emphasis is placed on group interaction and human dynamics as basic constituents of sound supervisory practice.

5324 Practicum in Supervision

Prerequisite(s): EDA 5322 and 5323.

Practice in planning supervisory in-service programs, problem solving, and procedures for improving supervisory and contemporary supervisory leadership in the public schools. An analysis of current literature as aids in setting up supervisory programs for instructional improvements is also included.

5327 Educational Evaluation (Cross-listed as EDP 5327)

Evaluation of educational programs including instructional as well as guidance programs. The student will be expected to organize and conduct research activities and to interpret the results of the research to teachers, administrators, parents, and other interest groups. Special topics will include construction of assessment instruments, the use of the computer in pupil personnel services, and the development of local norms.

5329 Philosophical and Cultural Contexts of Education

A study of the philosophical, social, and cultural frameworks impacting schooling in America.

5330 Policy, Politics, and Public Relations in Education

Prerequisite(s): EDA 5345.

An examination of the political and governance structures and public relations in American public education, including significant issues of policy and practice.

5344 School Business Management and Finance

Financing public education as it is related to other governmental services; the various types of public school revenues; the centralized and decentralized support and control of education. Particular attention is given to such problems as sources of revenue, budgeting, school costs, and financial accounting and auditing.

5345 Fundamentals of School Administration

Various administrative theories and philosophical concepts as they apply to school administration. Basic factors and functions of administration are studied in relation to the various programs of administration as well as the problems and issues involved in the administration of these problems. Principles and fundamentals of all administrative programs and procedures are included.

5347 Administration of Pupil Personnel Services

Organization and implementation of the pupil services necessary to provide a sound instructional program. The various services are studied from the viewpoint of a total program of services to make possible continuing progress by the pupil through his instructional program. The special services are considered in relation to the basic administrative service provisions.

5349 Administration of Staff Personnel Services

Studies, practices, and principles of administration with reference to recruitment, selection and promotion, and retention of school personnel. Modern employment and placement practices with reference to incentive pay systems, control of working conditions, job analysis and evaluation, salaries and salary scheduling, maintenance of morale, fringe benefits, and other employee services are studied and analyzed.

5353 The Principalship: Elementary and Secondary

Modern and practical problems of leadership and supervision faced by principals. Attention is given to such areas as organization of local schools, the teaching staff, pupil classification, provisions for exceptional children, and public relations. Studies of both problems and issues of the elementary and secondary schools.

5355 School Buildings and Equipment

Educational needs of the plant through school and community surveys. Standards for the building and equipment with special attention to plants in the smaller districts; suggestions for remodeling, renovating, financing, and repairing the plant.

5356 School Surveys and Field Studies

Place of the survey in present-day American education; its methods; findings concerning current problems in various types and phases of education; and tendencies in survey recommendations. Extensive reading of surveys required. Typical problems are assigned for investigation and report.

5357 Community Relations

Principles and practices of successful college and/or K-12 school community relations programs.

**5358 Seminar: Organizing and Administering School Reading Programs and Reading Clinics
(Cross-listed as EDC 5358)**

Orientation for administrators concerning four aspects of reading instruction: (1) Administrator roles and responsibilities essential to effective reading instruction; (2) Strategies for improving instruction that emphasize measurement, the use of varied media, and staff development; (3) Innovative practices in reading instruction at the elementary and secondary school levels; (4) Knowledge of developments in educational research and suggestions concerning bridging the gap between innovation and practice; (5) Preparation of a comprehensive school/district reading program.

5359 Seminar: School Law

The legal basis for education. Emphasis is placed on the concept that constitutional and statutory provisions reflect the basic beliefs, attitudes, and ideals of the American people in relation to public education. Analysis is made of the federal and the state constitutions as to those provisions having explicit or implicit ramifications for public education. State board of education policies which have the effect of law are also reviewed. A survey is made of those court decisions which historically have most dramatically affected the course of educational history from the point of view of students, teachers, administrators, and boards of education.

5360 Seminar: Administration of Special Programs

Administration of compensatory and special education, career and vocational programs, basic skills program (reading), and middle management services. May be repeated.

5361 Seminar: Central Office Administration

Basic administrative concepts, processes, and organization of public school administration. The roles of the superintendent and other central office personnel are examined in relation to effective administration. The relationship of the local school district to the Texas Education Agency, the federal government, and other educational institutions is examined. There will be intensive study in selected areas.

5362 Seminar: Administration of Career and Technical and Vocational Programs

Application of the principles of administration to vocational education programs. In addition to the study of organizational structures, planning, coordinating, allocation of resources, and decision-making, the course will cover special requirements of vocational education as program standards, state and local policies and regulations, state plans, building and equipment needs, and in-service training of vocational education personnel.

5363 Seminar: Administrative Theory and Educational Leadership

Theory and the relationship of leadership to administrative theory. Problems of development of administrative theory and problems occurring in the leadership role are the focus of the course.

5370 Psychosocial Development in College Students

This course will offer an in-depth analysis of psychosocial development theories, including models based on gender, race, ethnicity, sexual identity, and socioeconomic/sociocultural class. Erik Erikson's Identity over the Life Span and Arthur Chickering's Theory of Identity Development, along with Josselson, Phinney, Cross Helms, Cass, and others will be used.

5371 Cognitive-Structural Development in College Students

This course offers an in-depth analysis of cognitive-structural college student development theories, including William Perry's Intellectual Scheme; Mary Field Belenky, et al.'s Women's Ways of Knowing; Marcia Baxter Magolda's Epistemological Reflection Model; and Patricia King and Karen Kitchener's Reflective Judgment Model.

5372 Culture and Organization of Higher Education

This course provides an overview of the organizational structures and dynamics of higher education governance, leadership, planning, and resource allocation. Particular attention in this course is given to the diversity of post-secondary institutions in the United States, and how varying institutional settings influence organizational behavior, structures and cultural norms of operating. Students should anticipate a rich interaction with related literature. An introductory survey of organizational theories in higher education will also be explored.

5373 Person-Environment Theories

This course offers an in-depth analysis of person-environment theories, including the history and current use of such theories in higher education and student affairs. How people learn and the design of effective learning experiences and environments is also examined.

5374 Moral and Faith Development in College Students

An in-depth survey of major theories related to moral and faith development of American college students. Current research on the effect of the college environment on moral and faith development will be explored. Special emphasis will be placed on the integration of theory into student affairs administrative practice.

5376 Human Resource Management and Development in Student Affairs

Human resource management and development in student affairs are examined. Special attention is given to staff selection, training, evaluation, productivity, decision making, job stress, and job satisfaction. Current literature on management and supervision is studied.

5378 Capstone Course: Special Problems in Student Affairs Administration

This culminating course uses a problem-based, case study learning approach to apply the competencies gained in other educational administration courses. Students address new trends in college student personnel through attendance at a national conference as well as through a mentoring relationship with a student affairs professional.

5380 Technology and Leadership

An overview of technology in the context of organizational leadership. Participants examine the application of data (computer), video, and communications technology to formal and informal leadership responsibilities within educational organizations. Assumes no previous knowledge of advanced technology. Technology lab and field experiences will be required.

5387 The College Dean

A functional approach to the problems of the dean, treating the phases of administration; instructional personnel; public relations; curriculum construction and organization; faculty selection, assignment, promotion, and retirement; extra curricular activities; student and parent relations.

5388 The College Registrar

A study of duties, functions, and responsibilities of the registrar.

5390 Seminar: Education

A course designed to meet the individual needs of graduate students. May be repeated.

5391 Cultural Issues in Higher Education (Cross-listed as EDP 5391)

See EDP 5391 for course information.

5392 Higher Education and the Law

Legal aspects and issues of constitutional, statutory, and case law concerning public and private two-year and four-year colleges, and universities; their boards, administrators, faculty and students. Interpretations, compliance issues, and implications for institutional practice and policy.

5393 Supervision of Student Teachers

A course designed to provide students with a study of the principles and procedures for effective supervision of student teachers. Special emphasis is given to the development of contemporary supervisory methods and skills.

5394 Planning, Budgeting, & Human Resources in Higher Education

Prerequisite(s): EDA 5389 or consent of instructor.

This course explores the interdependent relationship of university strategy formation, strategic planning, finance, and human resources. First, attention is given to theory-based literature from both business and higher education as it relates to strategy formation and planning. Second, financial issues related to college and university administration are examined, including the nature of costs, their impact on students, and the future of higher education. Finally, the course explores the importance of human resources, its relationship to planning and finance, and how a student affairs administrator can enact processes related to management, staff selection, training, evaluation, and productivity.

5395 Student Services Administration: Practicum I

Broad on-site experiences in a variety of student services in three or more private and public institutions of higher education.

5396 Student Services Administration: Practicum II

In-depth on-site experiences in two different student services areas. Up to one-half of this practicum may be earned through professionally supervised graduate assistantships in appropriate work settings.

5399 Faith-Based Higher Education

The course explores the history of higher education in the United States, with special attention to the interplay of forces that have led virtually every major academic institution to abandon historic Christian convictions. It includes reading and thinking about the lessons of history and discusses how to apply them to contemporary context. Topics include staff and faculty hiring and mentoring, student life programming, staff development, and crafting and implementing a Christian collegiate vision.

5V19 Interpersonal Skills Lab

Practical application of theories and skills related to effective interpersonal behavior of school leaders. The foci are motivating, mentoring, and managing human interaction and communication.

5V21 Practicum: Functional Domains

A field-based experience related to performance in the functional domains of leadership, problem-solving, decision-making, organizational management, technology, and research. May be repeated once with different topic not to exceed three credit hours.

5V25 Practicum: Programmatic Domains

A field-based experience that focuses on the programs of elementary and secondary schools with special emphasis on curriculum and supervision of instruction. Professional Development Appraisal System (PDAS) and Instructional Leadership Development (ILD) certifications are covered. May be repeated once with different topic not to exceed three credit hours.

5V26 Practicum: Programmatic Domains

A field-based experience which focuses on the programs of elementary and secondary schools with special emphasis on support services and the resource base.

5V64 Internship in School Administration

(Required for both the principal and the superintendent.) Provides persons aspiring to become administrators with periods of practical clinical experience. Internships are conducted under the supervision of school, college, or other institutional administrators and professors.

5V65 Internship--Superintendent

Prerequisite(s): Consent of department chairperson.

Individuals are assigned to school systems where opportunities will be effected to observe and participate in the superintendent's office, business office, board meetings, and other areas related to the duties and functions of the superintendent. Required for Superintendent's Certification.

5V95 Special Problems in Education**1 to 4 sem. hrs.**

Designed to meet individual needs of graduate students. May be repeated.

5V99 Thesis**1 to 6 sem. hrs.**

Credit received when the thesis is finally approved.

6118 Leadership Assessment and Professional Development

A systematic process in which performance is assessed in critical skill areas of educational leadership. Assessment and feedback result in a leadership development plan for each student which is monitored throughout the program and becomes a part of the portfolio process.

6129 Professional Portfolio Assessment

Prerequisite(s): EDA 6118 or consent of department.

Culminating assessment of professional and personal growth and development of students completing the Ed.D. as evidenced by student professional portfolios. Portfolio documents are presented by students and evaluated by faculty and practitioner panels. Review of research and use of professional portfolios are also required.

6300 Research in Educational Administration I

Prerequisite(s): EDA/EDP 5327.

Topics related to the development of research projects in educational administration and decision-making will be presented including the identification of problems to be investigated, the review of the literature, the development of research questions and/or hypothesis, and writing proposals. Skills in Historical, Correlational, and Descriptive Research will be developed including the supporting measurement theory and statistics.

6301 Research in Educational Administration II

Prerequisite(s): EDA 6300.

Concepts and skills in experimental research applied to educational administration and decision-making, development, experimental design, sampling, measurement considerations, probability theory, inferential statistics, and reporting results. Statistical package will be utilized as a part of the instructional procedures.

6302 Teaching and Learning in Higher Education

Prerequisite(s): Doctoral Standing.

A doctoral seminar designed to introduce graduate students to teaching in higher education

through the exploration of curricular issues, course development and content, teaching techniques, learning concepts and theories, and the nature of faculty work.

6303 Seminar: Curriculum Management and Evaluation

Prerequisite(s): EDC 5321, 5344, 6310 or equivalent; or consent of instructor.

Development, management, and evaluation of K-12 curriculum with attention to research and best practice related to providing leadership for improving student performance. Administrative/supervisory responsibilities for curriculum standards, policy development, and curriculum audit procedures are also emphasized.

6304 Seminar: Politics, Policy and Governance of Education

Prerequisite(s): Doctoral student or consent of instructor.

The political and governance structures of American education with a particular emphasis on Texas. A study and analysis of local, state, and federal policies and policy issues with an emphasis on the critical dimensions of problem-solutions, power relations, and values and ethics.

6305 Ethics and Values in Educational Administration

Ethics and values as applied to educational leadership and management, with related philosophical concepts and principles. Designed for advanced graduate students with classroom teaching experience and educational leadership experience.

6335 Research Practicum in Education (Cross-listed as EDP 6335)

See EDP 6335 for course information.

6349 Advanced Studies in Human Resource Management in Education

Prerequisite(s): EDA 5349 or equivalent; or consent of instructor.

Theories and models supporting human resource activities. Topics are subject to change, but generally include equal employment opportunity laws and case rulings, recruitment, selection methods, corrective discipline, total compensation systems, performance evaluation, and conflict resolution. Emphasis is on application of theory to practice.

6350 Seminar: School Administration

Basic concepts of educational administration for doctoral students and advanced studies for school executives.

6352 Trends in Educational Thought (Cross-listed as EDC 6352)

A general survey and evaluation of recent developments in the various fields of education in the present day.

6359 Advanced Studies in Education Law

Prerequisite(s): EDA 5359 or equivalent; or consent of instructor.

Legal and regulatory applications as a context and constraint in educational administration decision-making. Topics are subject to change, but generally include federal and state constitutional provisions; statutory standards and regulations; local rules, procedures, and directives; fundamentals of contract law; and the governance of educational institutions.

6360 Seminar: Interprofessional Education and Practice

An exploration of approaches to interprofessional care for children and families in school based settings. The seminar involves a study of human service professionals and approaches to collaborative practice using case analyses and field activities.

6363 Advanced Studies in Educational Leadership

The role of leadership in shaping the quality and character of educational institutions. Topics are subject to change, but generally include identification of personal and organizational values, culture and culture building, formulation of personal and institutional goals, the change process, and vision building.

6370 Seminar in American Educational Thought (Cross-listed as AMS 5395)

Understanding the historical, philosophical, and sociological antecedents of current views on education and educational administration is a vital link in the formulation of a philosophy of educational administration. Historical and contemporary works in the general areas of educational history, educational philosophy, sociology of education, and educational administration will be studied.

6380 Technology in Educational Administration

This course emphasizes taking a systematic approach to the use of data, communication, and video technology. A review of existing research creates a knowledge base upon which instructional and administrative decisions can be made. Students are encouraged to apply the knowledge and skills gained through class instruction to administrative and instructional duties which they perform. Students are introduced to a number of moral, ethical, and legal issues that require professional evaluation.

6383 Organization and Administration of the Community College

Doctoral student or consent of instructor. Internal and external relations, planning and development; faculty selection and development; budgeting and finance; basic administrative functions and leadership concepts of higher education and especially the community college.

6384 Curriculum and Instruction in the Community College

Prerequisite(s): Doctoral student or consent of instructor.

Philosophy, objectives, curricular development, instruction, and administration in academic, technical, and continuing education programs in the community college.

6385 Higher Education--Business and Finance

Designed to provide the graduate student (or practitioner) with a practical knowledge of the business and financial aspects of higher education administration. Students will gain an understanding of key terminology that will be useful as they relate to financial administrators or seek advancement in the field. Students will learn to identify fiscal challenges facing colleges and will discuss effective means to face these challenges. Topics included are state and federal regulations, legislative issues, tax exempt financing, fund accounting and audits, budgets, legal issues, payroll and personnel, risk management, facilities construction, deferred maintenance, foundations and investments, grant management, and auxiliary enterprises and contracting.

6386 The Community College

Prerequisite(s): Doctoral student or consent of instructor.

Higher education and the community college: its philosophy, history, present/future trends, administration, instructional programs, student services, finances, public relations, and students.

6390 Seminar: Education

Designed to meet individual needs of doctoral students. May be repeated.

6V64 Internship in Educational Administration

1 to 9 sem. hrs.

Prerequisite(s): Consent of department chairperson.

A field-based experience designed to meet individual needs of doctoral students preparing for leadership roles in colleges, universities, and/or K-12 schools.

6V95 Special Problems in Educational Administration

1 to 9 sem. hrs.

Prerequisite(s): Doctoral student or consent of department chairperson.

Designed to meet the individual needs of doctoral students. May be repeated when topic varies.

6V99 Dissertation

1 to 6 sem. hrs.

EDUCATIONAL PSYCHOLOGY (EDP)

4350 Introduction to the Gifted Child

Historical overview of the field, definitions, basic terminology, theories, models, and characteristics of the gifted and talented. A brief overview of identification procedures, program prototypes, teacher characteristics, and curriculum models is also provided.

5278 Practicum in School Psychology

Prerequisite(s): EDP 5328, 5337, 5341, 5393 and 5394.

Direct experience with students in a school setting will be provided. Details of duties will vary but will include supervision by a Licensed Specialist in School Psychology (LSSP) and will emphasize intellectual and academic assessment, individual and group counseling, and professional development opportunities.

5279 Advanced Practicum in School Psychology

Prerequisite(s): EDP 5278.

Direct experience with students in a school setting will be provided. Details of duties will vary but will include supervision by a Licensed Specialist in School Psychology (LSSP) and will emphasize intellectual and academic assessment, individual and group counseling, consultation, in-service presentations, and professional development opportunities.

5325 Careers and the World of Work

Career education and vocational guidance in school and non-school settings. Attention to needs, objectives, and methods in career education with special emphasis upon techniques of counseling and administrative programs for vocational guidance at all levels.

5326 Introduction to Work in the Helping Professions

Introduction to personnel work in terms of philosophy, principles, services, standards of preparation, and professional organizations. Special focus on the role of counselors.

5327 Educational Evaluation (Cross-listed as EDA 5327)

See EDA 5327 for course information.

5328 Intellectual & Academic Assessment I

Theories of intelligence, practical administration, and interpretation of intellectual measures, including giving, scoring, and interpreting test results.

5329 Counseling Theories and Techniques

Prerequisite(s): Graduate standing and, in addition, EDP 5326; or consent of instructor.

Basic theories, strategies, and techniques in counseling, counseling relationships, preparing case reports, interpreting data, introduction to levels of counselor effectiveness, video-taped counseling sessions.

5330 Problems of Youth and Adolescents

Transition period between childhood and adulthood. Realistic dealing with experience factors in the development of adolescents and youth.

5331 Theoretical Approaches to Personality

Major theorists and their approaches to the study of personality plus the implications of each theory for normal human development or psychotherapeutic interventions. Application of the theories to school situations will be emphasized.

5332 Human Growth and Development (Cross-listed as AMS 5332)

Processes and stages of human growth and development: physical, social, emotional, and intellectual. The impact of social, political, and economic factors on individuals and families is explored.

5333 Psychology of Learning (Cross-listed as AMS 5333)

Philosophical and historical roots of theories of learning. Major constructs of current theories and their application in instructional, administrative, and counseling settings.

5334 Statistical Methods

Prerequisite(s): EDP 5335 or JOU 5310 or BIO 5201 or HED/HP/RLS 5379.

Exercises in the computation of the most commonly employed statistical indices in tabulation, graphic representation, and presentation of data in educational reports. The techniques used are also applicable to other fields.

5335 Research in Education (Cross-listed as AMS 5335)

Historical, descriptive, and experimental inquiry. Emphasis on interpretation of research. Use of references and resources; the problem; expression of hypotheses; research design; organizing the review of literature; gathering data; statistical analysis of data; reporting and discussing findings; drawing conclusions. Writing style will be applied to the student's major field of study.

5337 Intellectual and Academic Assessment

Prerequisite(s): EDP 5328 and 5393.

Continued knowledge and practice of intellectual assessment will be presented, as well as different types of academic assessment, including both norm-referenced and curriculum-based approaches. Integration of intellectual and academic assessment will be stressed within a problem-solving model.

5339 Group Counseling Methods

Prerequisite(s): Consent of instructor.

Group counseling theories and techniques. Analysis of group processes. Practice in leading simulated groups.

5340 Measurement and Evaluation

Overview of psychometrics and its application to psychological and educational decision making. Specific attention given to the design and development of specialized assessment instruments.

5341 Professional Practice and Ethics for School Psychologists

An overview of the profession of school psychology is addressed, including the history, foundations, and ethics of the field, as well as the various service models and methods of practice.

5343 Advanced Group Dynamics

Prerequisite(s): Consent of instructor.

Dynamics of group interaction. Students will function as a therapeutic group for a part of the term. Facilitation techniques for achievement of selected group goals will be demonstrated. Practice in leading groups. May be repeated for credit with consent of instructor.

5344 Individual Brief/Crisis Counseling

Overview of current methods of brief therapy and simulated experiences using brief therapy. Identification of situations having the potential for crisis, description of clients in crisis, consideration of theories devoted to explanation and possible amelioration of crises. Practice in counseling clients using brief therapy or crises interventions. Visits to appropriate settings.

5346 Therapeutic Intervention

The analysis of behavior and behavior change through single subject research design. Intervention strategies for students will be presented with an emphasis on functional analysis of behavior. Included is the application of the principles of behavior analysis to the assessment and treatment of learning and behavior problems.

5347 Pre-Practicum in Counseling

Prerequisite(s): EDP 5326 and 5329.

Initial clinical course addressing foundational skills. Students learn basic communication and

interpersonal counseling skills under faculty supervision. In addition, students practice application of a selected guiding theory of counseling. Satisfactory demonstration of (1) basic counseling skills, (2) use of a guiding theory of counseling, and (3) appropriate knowledge of and adherence to professional ethical standards is required for successful completion of the course.

5348 Community Counseling

Prerequisite(s): EDP 5326 and 5329.

Foundational course for students planning to work in community/agency counseling settings. The course includes theory and application information regarding the history, administration, and delivery of community counseling services.

5349 School Counseling

An overview of the school counseling profession, the context of practice and the knowledge and skills for counseling, guidance and consultation through lecture, discussion and selected experimental activities.

5350 Seminar: Counseling (Special Topic)

Changing seminar topics to provide counseling students specialized training. May be taken more than once.

5351 Social/Emotional Needs of the Gifted

Differential affective characteristics of gifted students; general counseling theories; communicating with the gifted; assessing affective needs; helping the gifted develop social and interpersonal skills; the defining role of the school in affective development; and measuring the potential of the gifted to achieve and contribute to society and the lives of others.

5352 Counseling in Religious Settings

Prerequisite(s): EDP 5329 or consent of instructor.

Integration of principles of religious faith with various counseling problems and psychotherapeutic systems. The course includes subject areas such as ethics, the identity of the counselor, and an evaluation of selected psychological theories for their usefulness in a religious setting and/or from a religious perspective.

5353 Spirituality and Religion in Counseling

This course is designed to help students increase their awareness and knowledge of diverse spiritual and religious traditions, the role of spirituality and religion to human development and mental health, and assessment and treatment approaches to counseling clients' spiritual and religious concerns.

5355 Social and Cultural Family Issues

Prerequisite(s): EDP 5329.

A culture centered approach to counseling emphasizing the basic underlying cultural assumptions that determine behavior, expectations and values.

5356 Behavior Management

An overview of behavior management, including different beliefs as to why behavior occurs. The process of collecting data for the purpose of assessing individual and group behavior and making decisions about the education of children will be studied.

5357 Single-Subject Research Design

An initial course in the use of single-subject research methodology. Single-subject research designs are empirical designs rooted in the field of applied behavior analysis that are regularly used in the study of individuals with low incidence disabilities, but are also appropriate for other populations. This class examines the characteristics of single-subject research designs.

5358 Teaching Individuals with Autism and Developmental Disabilities

Covers specific teaching techniques utilized among individuals with developmental

disabilities. Data collection techniques used to monitor progress will be introduced, as well as preference assessment(s) and communication intervention(s).

5359 Introduction to Play Therapy

This course introduces persons who work or plan to work with children to an understanding of the basic principles and procedures of play therapy.

5360 Counseling Children and Adolescents

Prerequisite(s): EDP 5367.

An overview of the theories and techniques used in counseling children and adolescents will be emphasized. Group counseling models will also be discussed. The models and methods will be applied to children and adolescents with concerns ranging from conduct disorder to low self-esteem.

5361 Challenging Behavior and Developmental Disabilities

Prerequisite(s): EDP 5356.

Provides a general understanding of severe challenging behaviors, such as self-injury and aggression, including various reasons that individuals with disabilities develop and maintain such behaviors, as well as assessment and treatment methods to address them.

5366 Psychology of Exceptional Children

Problems of the exceptional child in a developmental framework. Differences in intellectual functioning, academic achievement, and social relationships will be explored. A social psychological perspective will also be presented, i.e., the degree to which society accepts the exceptional and what effect this has upon their development.

5367 Psychopathology of Individuals and Families

Etiology, characteristics, and treatment of mental disorders in children, adolescents, and adults. Pertinent research plus therapeutic interventions appropriate for educators who work with individuals and family groups will be studied.

5368 Methods for Teaching the Emotionally Disturbed

Prerequisite(s): EDP 5366.

Techniques for the education of emotionally disturbed children and adolescents. Emphasis is placed on understanding classroom behavior, developing teacher-student relationships, and structuring classroom learning.

5369 Methods and Media for Children with Learning Disabilities

Prerequisite(s): EDP 5366.

Individual diagnosis of learning disabilities. Experiences will be provided in preparing individual educational plans and materials, both from developmental and remedial approaches.

5370 Consultation and Parent Conferencing

Skills for consultation and conference with parents, teachers, school administrators, and other professionals. Techniques are provided for gathering information regarding the needs of exceptional children and for involving parents and others in better meeting these needs.

5371 Marriage and Family Counseling

Prerequisite(s): EDP 5329 and 5367.

Introduction to the theory, principle, and techniques of marital and family therapy. An overview of various interpersonal and systemic perspectives will be presented as well as some practical and ethical issues in counseling with couples and families.

5372 Administration and Interpretation of Psychoeducational Assessments

Correlation of data collected from interviews, observations, and assessments. Administration and interpretation of selected tests.

5375 Practicum in Community Counseling

Prerequisite(s): EDP 5326, 5329, 5339, 5346 and 5347.

Continues development and practice of skills learned in EDP 5347 (Pre-Practicum in Counseling). Students develop professional and conceptual skills related to counseling practice at a field site during a minimum of one hundred hours at a community/agency counseling setting. Students must demonstrate satisfactory progress at the field site and during on-campus class meetings in order to proceed to Internship I in Community Counseling (EDP 5385).

5376 Practicum with Exceptional Children

All courses in the certification program. Field experiences with various types of exceptional children.

5377 Practicum in School Counseling

Prerequisite(s): Consent of instructor.

Practical, on-the-job, supervised and evaluated field experiences. This practicum, in which students spend one hundred fifty hours at a field experience site, meets the requirement for school counselor certification.

5382 Internship in School Psychology I

Prerequisite(s): EDP 5278 and 5279.

A six-hundred-hour field-based experience that must be completed in a public school setting. Details of duties may vary but should emphasize assessment, individual and group counseling/therapy, consultation, in-service presentations, and professional development opportunities. Field supervision must be provided by the district/co-op, and should be directed by a qualified school psychologist from the state of internship (e.g. a Licensed Specialist in School Psychology - LSSP if interning in Texas).

5383 Internship in School Psychology II

Prerequisite(s): EDP 5382.

A six-hundred-hour field-based experience that is a continuation of EDP 5382. This experience must be completed in a public school or mental health setting. Details of duties may vary but should emphasize assessment, individual and group counseling/therapy, consultation, in-service presentations, and professional development opportunities. Field supervision must be provided by the district/co-op, and should be directed by a qualified school psychologist from the state of internship (e.g., a Licensed Specialist in School Psychology - LSSP if interning in Texas).

5385 Internship I in Community Counseling

Prerequisite(s): EDP 5375.

Focus is on integration of conceptual, process, professional, and personal skills. Provides an extensive supervised experience in a community/agency counseling setting. Internship I consists of a counseling field experience requiring approximately twenty hours per week (three hundred hours minimum).

5386 Internship II in Community Counseling

Prerequisite(s): EDP 5385.

Continuation of Internship I in Community Counseling. Focus is on integration of conceptual, process, professional, and personal skills. Provides an extensive supervised experience in a community/agency counseling setting. Internship II consists of a counseling field experience requiring approximately twenty hours per week (three hundred hours minimum).

5390 Seminar: Education

Designed to meet individual needs of graduate students. May be repeated.

5391 Cultural Issues in Higher Education (Cross-listed as EDA 5391)

This course explores topics relevant to providing educational services to diverse student populations in higher education. Students will develop knowledge, attitudes, and skills needed to function within their own microculture, the United States macroculture, other microcultures, and the

global community. Students will develop skills and understanding of effective strategies for academic assessment and intervention, and strategies to facilitate student success in higher education.

5393 Cultural Issues with Children and Families

An overview of the psychosocial and educational needs of ethnically and linguistically diverse children is discussed, including the impact of culture, cross-cultural assessment, and treatment models in a multi-systems approach.

5394 Social-Emotional Assessment

Prerequisite(s): EDP 5337.

An overview of the strategies used to assess the social-emotional health of students will be presented. Knowledge and practice of the various models and methods of assessment and their association to interventions are presented.

5V54 Practicum with Gifted Students**3 to 6 sem. hrs.**

Three to six semester hours of practicum experience or two years of successful classroom teaching experience in an approved program for gifted and talented students to meet the requirement for an endorsement in this area. Regular consultation with program faculty to develop teaching skills is arranged in conjunction with the setting. May be repeated for credit.

5V95 Special Problems in Education**1 to 4 sem. hrs.**

Designed to meet individual needs of graduate students. May be repeated.

5V99 Thesis**1 to 6 sem. hrs.**

Credit received when the thesis is finally approved.

6154 Introduction to Multidisciplinary Studies

Compares and contrasts the theories, models, and methods used in the creation of knowledge in a variety of disciplines. Specific approaches to the identification, design, and evaluation of creative products across disciplines will be examined.

6155 Reflection of Multidisciplinary Studies

Prerequisite(s): EDP 6154.

Research resulting from the examination of contemporary issues, problems, and/or themes from a multidisciplinary perspective will be shared in a symposium.

6330 Seminar: Educational Psychology

Issues in educational psychology from a historical and research point of view. Extensive reading relating to the current applications of psychology to the educational process, including human development, learning, measurement, and instructional theory. Special emphasis is placed on individual differences in a multicultural society. This course may be repeated.

6332 Advanced Human Growth and Development

Prerequisite(s): DP 5332.

Individual development from birth to death will be examined in depth as well as the relationship between the individual, the family, and society and the way this relationship varies with the age and level of maturity of the individual in question. New theories and research methodologies will be explored.

6333 Advanced Study of Human Learning

Prerequisite(s): EDP 5333, 5334, and 5335.

Individualized, directed study of topics in human learning. Topics include attention and perceptual learning, language acquisition, memory, and social learning. Students choose a research problem in human learning, do a review of the literature, and conduct a pilot study to investigate the problem.

6335 Research Practicum in Education (Cross-listed as EDA 6335)

Prerequisite(s): EDP 5335.

Educational research writing. Emphasis will be placed on the organization of the prospectus, the thesis, the dissertation, and the abstract which are typically required by graduate schools in professional fields. Individualized and critical assistance will be given in the research writing style and composition mechanics befitting the research design chosen.

6336 Qualitative Research and Data Analysis (Cross-listed as EDC 6336)

Prerequisite(s): EDP 5335.

The development of an in-depth understanding of the major methods of inquiry associated with qualitative research will be emphasized. These include participant observation, interviewing, and document analysis. Additionally, an appreciation for the strengths and limitations of engaging in qualitative research and a general understanding of the paradigms that undergird qualitative research and their implications for conducting qualitative inquiry will be cultivated.

6337 Psychometric Theory and Test Construction

Prerequisite(s): EDP 5340.

Review of the theoretical literature and construction of direct and indirect performance tests. Course will cover cognitive, affective, and psychomotor domains, theoretical assumptions underlying test design, criteria for the appropriate construction of discreet item forms, processes used to establish test validity and reliability, and use of test construction software.

6338 Grant Writing (Cross-listed as EDC 6338)

Information about sources of external funding and instruction in the techniques of grant writing.

6339 Ethnographic Research Methods in Education (Cross-listed as EDC 6339)

See EDC 6339 for course information.

6340 Practicum in Adult Learning: Campus-Based

Campus-based experiences in a higher education setting. Particular attention will be given to the design of courses of study and instructional strategies that encourage inquiry with the adult learner.

6341 Practicum in Adult Learning: Field-Based

In-depth experiences in a field-based educational or other setting. Particular attention will be given to the development, implementation, and evaluation of programs for adult learners.

6345 Adult Learner-Advanced

Characteristics of the young and mature adult learners with an emphasis on intellectual development. An analysis of theories of adult learning will be included.

6350 History and Systems in Educational Psychology

How systems of educational psychological thought develop in the context of the dynamic nature of science. Changing systems in educational psychology are examined emphasizing their influence on theory, design, and the delivery of educational programs.

6351 Futures and Change

The foundations and principles of innovation and change will be explored. Forces that shape future educational patterns will be examined from a multidisciplinary perspective. Specific futuristic methods such as Delphi Technique, Force Analysis, Relevance Trees, Cross Impact Matrix, the Scenario, and Morphological Analysis will be presented and discussed.

6352 Instructional Systems Methodology

Research-based preparation in the design and delivery of performance-based instruction. Course will cover formal performance objectives, learning hierarchies, direct and indirect performance assessment, and valid and reliable classroom test construction.

6353 Creativity and Problem Solving

Focuses on how to teach and instruct from examining the basic theories, models, and research of creativity and problem solving and their applications to the development of individuals. Differences that result from an interaction among personality, creativity, and ecological factors will be related to the design of programs and curriculum that meet the changing abilities and needs of adult learners.

6359 Mixed Methods Research Design and Analysis (Cross-listed as EDC 6359)

See EDC 6359 for course information.

6360 Experimental Design I

Prerequisite(s): EDP 5334 and 5335.

Course focuses on applied experimental designs that address the unique settings and systems of education, including data collection strategies for field work.

6361 Experimental Design II

Prerequisite(s): EDP 5334, 5335 and 6360.

Course focuses on unique models for research in education settings including advanced experimental designs, path analysis, general linear modeling, hierarchical linear modeling, and structural equation modeling.

6362 Applied Multiple Regression/Correlation Analysis in Education

Prerequisite(s): EDP 5334 and 6360.

Applications of correlation and multivariate regression analysis procedures to issues in education research, such as building, evaluating, and validating multiple regression models.

6365 Latent Variable Models in Education

Prerequisite(s): EDP 5334, 6360, and 6362.

An advanced statistics class that builds on general multiple regression models to extend to the measurement of latent variables, such as factor analysis and structural equation modeling.

6366 Item Response Theory

Prerequisite(s): EDP 6337 and 6362.

An advanced psychometrics class designed to introduce the development and testing of item response models, as well as applying the models to measurement instruments.

6367 Individual Differences

Prerequisite(s): EDP 6337 and 6365.

An advanced psychometrics and statistics class, introducing selected topics in behavior genetics, intelligence, and personality research.

6370 Case Study Research Methods and Analysis in Education (Cross-listed as EDC 6370)

See EDC 6370 for course information.

6390 Seminar: Education

Designed to meet individual needs of doctoral students. May be repeated.

6V99 Dissertation

1 to 6 sem. hrs.

ELECTRICAL AND COMPUTER ENGINEERING (ELC)**4330 Introduction to Robotics (Cross-listed with ME 4330)**

Prerequisite(s): Credit or concurrent enrollment in ELC 4332.

Analysis of robot manipulators, including forward and inverse kinematics, rigid-body rotation parameterizations, velocity kinematics, path planning, nonlinear dynamics, single and multi-variable control. (3-0)

4340 Power Systems

Prerequisite(s): ELC 3335.

Analysis of power systems, including energy sources, transmission lines, power flow, transformers, transmission and distribution systems, synchronous generators, stability, power system controls, short-circuit faults, and system protection.

4350 Principles of Communication

Prerequisite(s): ELC 3335 and STA 3381.

Signal analysis, modulation techniques, random signals and noise, digital transmission, information theory, coding. (3-0)

4353 Image Formation and Processing (Cross-listed with BME 4353)

Prerequisite(s): ELC 3335, and credit or concurrent enrollment in STA 3381.

Introduction to image formation systems that provide images for medical diagnostics, remote sensing, industrial inspection, nondestructive materials evaluation and optical copying. Image processing, including image enhancement, analysis, and compression. Student specialization through assignments and project. (3-0)

4360 Software Systems

Prerequisite(s): ELC 3336.

Software engineering methods and tools. Topics include the development lifecycle, requirements, specifications, design, implementation, verification, validation, and maintenance, project management and professional ethics. (3-0)

4372 Bioinstrumentation (Cross-listed as BME 4372)

Prerequisite(s): ELC 3335.

Principles of biomedical instrumentation and their real-world applications. Emphasis on understanding the basic design principles and technologies used in bioelectrical, biomechanical, and clinical instrumentation. (2-3)

4377 Solar Energy (Cross-listed as ME 4377)

Prerequisite(s): ELC 2430 and ME 2345.

A first course in the principles of solar energy collection, conversion and storage. Topics include solar photovoltaic and thermal collectors, sun-earth geometry, ground and sky radiation models, and balance-of-system components including stratified tanks, pumps, and power inverters. Students will learn industry-standard TRNSYS energy modeling software.

4396 Special Topics in Engineering (Cross-listed with BME 4396, EGR 4396, and ME 4396)

See EGR 4396 for course information.

4438 Computer Systems Design

Prerequisite(s): ELC 3338 and 3414.

Design and implementation of embedded computer systems using microcontrollers, sensors and data conversion devices, actuators, visual display devices, timers, and applications specific circuits. Software design using microprocessor cross-development systems and real-time operating system principles. (3-3)

4451 Digital Signal Processing

Prerequisite(s): ELC 3335, 3336 and STA 3381.

Discrete-time signals and systems, sampling theory, z-transforms, spectral analysis, filter design, applications, and analysis and design of discrete signal processing systems. Laboratory emphasis on common engineering DSP applications, and DSP microprocessors. Credit cannot be earned for ELC 4451 if credit is earned for BME 4452. (3-3)

4V97 Special Projects in Engineering (Cross-listed with BME 4V97, EGR 4V97, and ME 4V97)

1 to 6 sem. hrs.

See EGR 4V97 for course information.

5302 Engineering Analysis (Cross-listed as EGR 5302 and ME 5302)

Prerequisite(s): Graduate standing in Engineering.

Selected topics in applied engineering mathematics. Topics include advanced linear algebra, signal theory, and optimization methods.

5311 Advanced Logic Design

Prerequisite(s): Graduate standing in Engineering.

Computer-automated design of digital circuits. Functional specification; structural and behavioral modeling using hardware description languages; simulation for design verification and timing analysis; circuit synthesis for FPGA implementation; testing and fault diagnosis.

5313 Advanced Computer Architecture

Prerequisite(s): ELC 4438 or consent of instructor.

Advanced topics in computer architecture, including instruction set design, instruction pipelines, super scalar and very-long instruction word processors, cache and virtual memory systems, multiprocessor systems, large data storage systems and computer networks.

5316 Real-Time Systems Design

Prerequisite(s): ELC 4438 or consent of instructor.

Hardware and software characteristics of real-time concurrent and distributed reactive control systems; design methodologies; performance analysis; case studies and development projects.

5337 Principles of Microwave Sensing and Measurement

Fundamentals of microwave sensor design and applications. Emphasis on understanding the basic principles, fundamental electrical and magnetic properties of materials, and the sensor configurations of RF/microwave instruments used in industrial and biomedical application.

5338 High Frequency Electronics Design

Design and analysis of solid-state electronic circuits at RF and microwave frequencies. Emphasis on operational characteristics and design procedures for two- and three-terminal semiconductor devices and the associated passive components and circuit fabrication techniques used for generating, amplifying, and processing signals in this frequency range.

5339 High Frequency Electronics II

Prerequisite(s): ELC 5338 or consent of instructor.

The design of linear amplifiers and oscillators at microwave frequencies, including an emphasis on design procedures for optimum gain, stability, and noise performance of amplifiers and the negative resistance method for oscillators.

5351 Multidimensional Signal Analysis (Cross-listed with BME 5351)

Prerequisite(s): ELC 4451.

Introduction to the processing and analysis of images in higher dimensions, including images and video. Characterization of higher dimensional signals. Multidimensional Fourier analysis, FFT's, systems and convolution. Reconstruction of images from projections. Tomography, Abel transforms, Radon transforms. Synthesis and restoration of signals using projection methods. Alternating projections onto convex sets. (3-0)

5353 Biomedical Signal Analysis (Cross-listed as BME 5353)

Prerequisite(s): ELC 4451 or BME 4452.

Applications of signal theory and digital signal processing concepts toward biomedical signals. Topics include filters, signal modeling, adaptive methods, spectral analysis and statistical signal processing methods.

5354 Random Signals and Noise

Prerequisite(s): ELC 3335 and consent of instructor.

Foundational treatment of probability, random variables and stochastic processes used in the analysis of random signals and noise in many areas of engineering. Topics include the modeling and

properties of probability, scalar and vector random variables, the central limit theorem, stochastic processes, stationarity, ergodicity, the Karhunen-Loeve expansion, power spectral densities, response of linear systems to random signals, and Markov chains.

5356 Statistical and Adaptive Signal Processing

Prerequisite(s): ELC 5354.

Unified introduction to the theory, implementation, and applications of statistical and adaptive signal processing methods. Key topics focus on spectral estimation, signal modeling, adaptive filtering, and signal detection.

5358 Introduction to Computational Intelligence

Prerequisite(s): Consent of instructor.

Foundational knowledge of computational intelligence and its application to engineering problems. Discriminant analysis, artificial neural networks, perception training and inversion, fuzzy logic, fuzzy inference engines, evolutionary computation, particle swarms, intelligent agents, and swarm intelligence.

5360 Linear Systems

Prerequisite(s): ELC 4332 or equivalent.

Analysis of linear systems, including system modeling, state-variable representations, discrete-time systems, linear algebra, linear dynamic equations, stability, observability, controllability, state-feedback and state-estimators, realization, and pole placement.

5362 Optimal Control

Prerequisite(s): ELC 5360 or equivalent.

Optimal control problems, static optimization, optimal control of discrete-time systems, the variational approach to optimal control, linear quadratic regulator problems, the maximum principle, extensions of LQR problem, time-optimal control problems, dynamic programming.

5390 Research Methods and Project Formulation (Cross-listed with BME 5390 and EGR 5390)

Prerequisite(s): Approval of student's proposed master's thesis or project advisor.

Designed for students in the process of selection of thesis or project topic. Students will gain experience in literature and/or laboratory research methods and formulation of a project appropriate for their area.

5396 Special Topics in Engineering (Cross-listed as BME 5396, EGR 5396, and ME 5396)

See EGR 5396 for course information.

5397 Special Projects in Engineering (Cross-listed as BME 5397, EGR 5397, and ME 5397)

See EGR 5397 for course information.

5V99 Master's Thesis (Cross-listed as BME 5V99 and ME 5V99)

1 to 6 sem. hrs.

Prerequisite(s): Approval of student's master's thesis advisor.

Students completing a master's program with a thesis must complete six hours of ELC 5V99.

ENGINEERING (EGR)

4396 Special Topics in Engineering (Cross-listed with BME 4396, ELC 4396, and ME 4396)

Prerequisite(s): Consent of department chair.

Study of advanced topics in engineering. This course may be repeated once under a different topic.

4V97 Special Projects in Engineering (Cross-listed as BME 4V97, ELC 4V97, and ME 4V97)
1 to 6 sem. hrs.

Prerequisite(s): Consent of department chair.

Advanced topics and/or special project activities in engineering.

5001 Baylor Engineering and Research Seminar

Prerequisite(s): Admission to Engineering graduate program.

A weekly forum for presentation by guest speakers, faculty and graduate students on current research and other topics of interest. Graduate students must enroll and attend two semesters or more as required by their advisory committee.

5302 Engineering Analysis (Cross-listed as ELC 5302 and ME 5302)

See ELC 5302 for course information.

5390 Research Methods and Project Formulation (Cross-listed as BME 5390 and ELC 5390)

See ELC 5390 for course information.

5396 Special Topics in Engineering (Cross-listed as BME 5396, ELC 5396, and ME 5396)

Prerequisite(s): Approval of department chair.

Study of advanced topics in engineering. This course may be repeated once under a different topic.

5397 Special Projects in Engineering (Cross-listed as BME 5397, ELC 5397, and ME 5397)

Prerequisite(s): Consent of department chair.

Graduate level topics and/or special project activities in engineering.

5V98 Master's Project**1 to 6 sem. hrs.**

Prerequisite(s): Approval of student's master's project advisor.

Students completing a master's program with a project must complete three or six hours of this course, as determined by the student's individual plan of study.

ENGLISH (ENG)**5301 Old English Language**

Prerequisite(s): Graduate standing or permission of the instructor.

Introduction to the Old English language through intensive study of Old English grammar and reading of Old English texts. Required for doctoral candidates.

5302 Old English Literature

Prerequisite(s): Graduate standing and at least one course in Old English language (ENG 5301 or equivalent) or permission of the professor.

Continuation of ENG 5301. Introduction to a wide range of Old English literary texts and the textual and critical discussion surrounding them. May be repeated one time for credit provided topic is different.

5303 Studies in Linguistics

Tools and methods for the analysis of language. Subject matter may include phonology, morphology, syntax, semantics, pragmatics and discourse, language in society, dialect and variation, or stylistics. Topic varies according to demand. May be repeated one time for credit provided topic is different.

5304 Bibliography and Research Methods (Cross-listed as AMS 5304)

Practical introduction to the nature of printing and transmission of written material; a guide to the use of the libraries for graduate-level research; approaches to purposes for graduate studies. May be repeated one time for credit provided topic is different.

5306 Literary Criticism: Seminar (Cross-listed as AMS 5306)

Issues in critical theory from Plato to the present with particular attention given to current practice and trends in literary analysis. May be repeated one time for credit provided topic is different.

5308 Independent Study in Literature (Cross-listed as AMS 5308)

Research or reading project undertaken by an individual student working under the direction of a professor. Project to concern literary topics beyond what is included in the defined seminars. Prospectus to be approved by the director of graduate studies in English. May be repeated one time for credit provided topic is different.

5309 Seminar on Curriculum and Pedagogy in English

Seminar designed for M.A. and Ph.D. students who intend to teach in higher education or secondary school as a career. While most graduate courses in the program focus directly on the contents of literary knowledge in the form of authors, genres, periods, styles, and so on, this course focuses on curriculum and pedagogy issues. May be repeated one time for credit provided topic is different. Maximum six semester hours.

5310 Rhetoric and Composition: Seminar

Issues in rhetoric from antiquity to the present, focusing on historical development and theoretical problems; contemporary studies in the production of texts and the teaching of writing. May be repeated one time for credit provided topic is different.

5312 Middle English Literature: Seminar

Study by seminar method of an aspect of Middle English literature: Chaucer, the alliterative revival, medieval drama, and romance. May be repeated one time for credit provided topic is different.

5314 Creative Writing

Workshop in creative writing and designed for thesis track and non-thesis track students actively engaged in creative writing. Course content varies according to instructor preference and expertise. May be repeated one time for credit provided topic is different. Maximum six semester hours.

5324 Sixteenth-Century English Literature: Seminar

Poetry, drama, and/or prose of a single author, or of a movement, or of a topic integral to sixteenth-century English literature. May be repeated one time for credit provided topic is different.

5330 Seventeenth-Century English Literature: Seminar

Selected works of Donne and other Metaphysical poets, Jonson and his followers, Milton, Bacon, Browne, Burton, Bunyan, and others to the Restoration Period. May be repeated one time for credit provided topic is different.

5340 Restoration and Eighteenth-Century English Literature: Seminar

Major writers, literary background, and cultural aspects of the Restoration and eighteenth century. Major emphasis varies with each offering. May be repeated one time for credit provided topic is different.

5350 Early English Romantic Literature: Seminar

One or more of the poets and essayists of the Early English Romantic period. May be repeated one time for credit provided topic is different.

5352 Later English Romantic Literature: Seminar

One or more of the poets and essayists of the Later English Romantic period. May be repeated one time for credit provided topic is different.

5361 Victorian Poetry: Seminar

Poetry of a single author or a movement or topic embracing several writers of nineteenth-century England. May be repeated once for credit provided topic is different.

5362 Victorian Prose: Seminar

Selected works of fiction and/or non-fiction from the Victorian period. Course may emphasize a single author or a movement or topic embracing several writers of nineteenth-century England. May be repeated one time for credit provided topic is different.

5364 Browning: Seminar

Several key poems with an examination of the evolution of interpretation of these poems. Major focus on *The Ring and the Book*: its sources, structure, autobiographical content, and interpretation. Students are advised to complete ENG 4364 before registering for ENG 5364. May be repeated one time for credit provided topic is different.

5371 Modern British Literature: Seminar

Poetry, fiction, and/or drama of a single author or a movement embracing several British authors writing between 1900 and 1940. May be repeated once for credit provided topic is different.

5372 Contemporary British Literature: Seminar

Poetry, fiction, and/or drama of a single author or a movement embracing several British authors writing after 1940. May be repeated once for credit provided topic is different.

5374 Studies in Literature

American, British, or World literature as it crosses national boundaries or treats themes or movements that do so. Topic announced for each session. May be repeated one time for credit provided topic is different. Maximum six semester hours.

5376 Religion and Literature Seminar

Prerequisite(s): Graduate standing in the doctoral Religion and Literature concentration or consent of the instructor.

Designed to clarify the plurality of ways in which the integrative study of religion and literature may be engaged. Among the theoretical approaches to be examined, these are representative: humanist, feminist, atheist, Jewish, and Christian. The course will include at least one major theological aesthetician and two or three major literary texts that are susceptible of multiple religious readings. May be repeated one time for credit provided the topic is different.

5377 English Religious Authors: Seminar

Imaginative literature with religious concerns broadly defined, of a single author or complementary authors, writing in English. May be repeated once for credit provided topic is different.

5391 Colonial American Literature (Cross-listed as AMS 5391)

Poetry or prose of a single author or of a movement or topic embracing several writers of eighteenth-century America. May be repeated one time for credit provided topic is different.

5393 Nineteenth Century American Literature (Cross-listed as AMS 5393 and ENG 5390)

Poetry or prose of a single author or of a movement or topic embracing several writers of nineteenth-century America. May be repeated one time for credit provided topic is different.

5394 Modern American Literature (Cross-listed as AMS 5394)

Poetry, fiction, or drama of a single author or a movement embracing several writers from 1900-1940. May be repeated one time for credit provided topic is different.

5395 Contemporary American Literature (Cross-listed as AMS 5389)

Poetry, fiction, or drama of a single author or a movement embracing several writers from 1940 to the present. May be repeated one time for credit provided topic is different.

5396 American Studies: Seminar (Cross-listed as AMS 5396)

American studies, treating such subjects as literature, history, philosophy, psychology, theology, and education. The course focuses on examining texts as cultural documents. May be repeated one time for credit provided topic is different.

5V99 Thesis**1 to 6 sem. hrs.**

Supervised research for the master's thesis. 1-6 semester hours; maximum ten semester hours.

6374 Advanced Studies in Literature

Prerequisite(s): Twenty-one semester hours of English graduate courses.

Specialized topics not ordinarily included in regularly scheduled graduate seminars, e.g., the Pre-Raphaelites, American Puritanism, Derridean influences. Topic announced for each semester or session.

6V99 Dissertation**1 to 12 sem. hrs.**

Supervised research for the doctoral dissertation. One to twelve semester hours; maximum seventeen semester hours.

ENTREPRENEURSHIP (ENT)**5329 Entrepreneurial Finance (Cross-listed as FIN 5329)**

This course examines the entrepreneurial venture process that begins with identifying an opportunity and ends with "harvesting" the value created. Much of the course is viewed from a financial perspective. The course is divided into four sections: 1) how to recognize and evaluate a venture opportunity, 2) how to secure the needed financial resource, 3) how to capture the opportunity, and 4) how to unlock the economic value created by the venture. The course relies on both "live" cases in which the entrepreneur visits the class when the case is analyzed and Harvard Business School cases.

5332 The Entrepreneurial Start-up: Opportunity Recognition and Venture Launch

The Entrepreneurial start-up focuses on two very important aspects in the early life of a new venture, how to identify and validate the opportunity and how to plan and gather resources for successfully launching the business. The issue of opportunity recognition is the focus of the first part of the course. The second part of the course provides the tools and skills to assemble the right team, assets and financing to successfully start the business. Throughout the course students will use actual case studies to develop the judgment it takes to turn an attractive idea into a profitable company.

5333 Creating Value through Growth and Harvest

Students examine recommended procedures for developing a systematic pattern of profitable growth, keeping the venture on course, reacting to unexpected changes, and negotiating a win-win deal structure. Then they address the process involved in harvesting or exiting the venture, dealing with such issues as exit strategies and methods.

5334 Seminar in Business Plan Case Competition

Prerequisite(s): ENT/FIN 5329 or consent of instructor.

The students in this seminar will prepare business plans for business opportunities they believe have merit and might want to launch after graduation. One or more of the business plans developed in the course will be selected to compete in regional and national business plan competitions. In addition, the better business plans may be presented to investors that have been identified by the business school for possible funding of the opportunity. The course will be facilitated by a faculty member and a practitioner who has experience in writing business plans.

5335 Entrepreneurial Field Studies

This practicum course offers insight into the entrepreneurial process of managing and growing a business. Student teams with a faculty supervisor act as consultants to client firms facing challenges associated with growth. A process of consulting is used which emphasizes planned change management. Guest speakers from nationally recognized consulting firms present their philosophy and practice tools and serve as sounding boards for the student consultants.

5341 Technology Entrepreneurship

Prerequisite(s): BUS 5290.

Technology Entrepreneurship examines the entire technology commercialization process, from concept to market. It is intended to prepare students in business, engineering, and the sciences to understand and participate effectively in the processes required for successful introduction of new technology products in the marketplace.

5342 Corporate Entrepreneurship: Initiating and Sustaining Innovation

Exploration of the nature of innovation -- its drivers, patterns, and impacts on society and organizations of all sizes and missions. Use of tools and processes in a larger organizational context where selecting the best innovation target is critical.

5363 Seminar in Mergers and Acquisitions (Cross-listed as FIN 5363)

See FIN 5363 for course information.

5V98 Special Studies in Entrepreneurship

Prerequisite(s): Consent of instructor.

Student may register for a maximum credit of six semester hours.

ENVIRONMENTAL STUDIES (ENV)**4302 Team Problem Solving in Environmental Studies**

Students will contribute the skills of their specializations to analyze and to suggest a solution to a current environmental problem. May be repeated once with a change of content.

4307 Environmental Law (Cross-listed as PSC 4307)

Prerequisite(s): Upper-level standing or consent of instructor.

Fundamentals of environmental protection laws in the United States, including the evolution of environmental law in the areas of case law, common law, and administrative law. Topics include air and water quality, toxic and hazardous substances, endangered species, and wetlands and coastal management issues.

4310 World Food Problems (Cross-listed as ANT 4311)

Prerequisite(s): Upper-level standing.

A seminar approach with emphasis on the various causes of malnutrition including the ecological basis for food production, the impact of economics and politics on food production and distribution, and the consequences of malnutrition.

4323 The Environment and Economic Analysis (Cross-listed as AVS 4323 and ECO 4323)

Prerequisite(s): ECO 1305 or 2306 or AMS 1305; and upper-level standing.

Economic analysis in description, analysis, and policy formulation of environmental problems such as natural resource development, ecology, energy needs, noise, water, and air pollution. Economic tools used will include social welfare analysis, externalities, and benefit cost analysis.

4325 Human Health Risk Assessment

Prerequisite(s): ENV 3314 or concurrent enrollment in ENV 3314; or consent of instructor.

Concepts, data sources, and methodologies used in the field of human risk assessment, including environmental hazard identification, dose-response assessment, exposure assessment, risk characterization, and risk communication. Required project utilizing professional risk assessment software.

4327 Human Catastrophe and Cultural Response (Cross-listed as ANT 4327)

See ANT 4327 for course information.

4330 Urban Political Processes (Cross-listed as PSC 4330)

See PSC 4330 for course information.

4333 Coastal Zone Management

Prerequisite(s): Upper-level standing.

Strategies for managing beaches, deltas, barrier islands and coastal seas, including issues in flood and storm risk, pollution mitigation, recreational development and fisheries exploitation.

4335 Applied Environmental Impact Analysis

Government regulations and increased citizen awareness relationship to the impact of plans and projects on the environment. The course includes an examination of major environmental legislation and its impact on decision making in the public sector. Legislative Acts pertinent to the development of Environmental Impact Analysis are studied. (3-0)

4340 Environmental Archaeology (Cross-listed as AMS 4340, ANT 4340, and ARC 4340)

See ANT 4340 for course information.

4344 Fundamentals of Toxicology (Cross-listed as BIO 4344)

Prerequisite(s): CHE 1301, 1302, 3331, BIO 1305, BIO 1306 and BIO 3422; or consent of instructor.

Basic concepts of toxicology, including historical perspectives, the disposition and metabolism of toxic substances, pharmacokinetics, target organ toxicity, non-organ directed toxicity, toxic agents, industrial toxicology, forensic toxicology, environmental toxicology, toxicity testing techniques, and risk assessment.

4345 Water Management (Cross-listed as GEO 4345)

Interdisciplinary field of water management. Scientific, technical, institutional, economic, legal, and political aspects of water management.

4351 Futuristics (Cross-listed as ANT 4351)

See ANT 4351 for course information.

4355 Principles of Renewable Resource Management

Theory, principles, and management of renewable resources to meet human needs. Field trips to management activities will be included. (3-0)

4362 Applied Anthropology (Cross-listed as ANT 4362)

See ANT 4362 for course information.

4365 The Environment and Energy

Prerequisite(s): ENV 1301 and upper-level standing.

Fundamental concepts of energy: the nature of energy flows and storage, potential and kinetic energy, energy loss and reversible and irreversible processes. Renewable and non-renewable energy sources and the impact of energy consumption on problems of societal sustainability.

4369 Seminar in Anthropology (Cross-listed as ANT 4369)

See ANT 4369 for course information.

4371 Wetlands (Cross-listed as GEO 4371)

See GEO 4371 for course information.

4374 Global Soil Systems (Cross-listed as GEO 4373)

See GEO 4373 for course information.

4375 Natural Landscape Evaluation and Planning (Cross-listed as GEO 4375)

See GEO 4375 for course information.

4377 Advanced Studies in Wilderness, Parks, and Nature Reserves

Prerequisite(s): ENV 3306 or consent of instructor.

Topics in the management of national or state parks, nature reserves or wilderness areas, such as recreational impacts, disturbance ecology, or environmental interpretation. May be conducted as an off-campus field seminar.

4380 Restoration Ecology (Cross-listed as BIO 4381)

Prerequisite(s): ENV 2375 and 2376, or BIO 3303.

Principles and practices for restoring natural systems that have been degraded or destroyed. Emphasis on re-establishment of soils, plants, and animals in terrestrial and aquatic environments. Legislative, political, industrial, and regulatory perspectives considered. (3-0)

4386 Remote Sensing (Cross-listed as AVS 4386, BIO 4386, GEO 4386 and GEOG 4386)

See GEO 4386 for course information.

4393 Environmental Ethics (Cross-listed as AMS 4393 and REL 4393)

See REL 4393 for course information.

4397 Tropical Environments: Ecology and Sustainable Management

Prerequisite(s): Consent of instructor and upper-level standing.

Off-campus field course exploring tropical ecosystems, such as rainforests and coral reefs. Investigation of past impacts of human cultures, and of sustainable practices for future environmental management. Topics may include agriculture, forestry, aquatic resources, energy production, and ecotourism.

4450 Applied Forest Ecology

Prerequisite(s): ENV 1301 or BIO 1306.

Ecological analysis of forest and woodland structure, energy and nutrient cycling, population dynamics and response to disturbance. Application of concepts to sustainable forest management.

4485 Introduction to Geographic Information Systems (Cross-listed as AVS 4485, GEO 4485, and GEOG 4485)

See GEOG 4485 for course information.

4487 Advanced GIS Analysis (Cross-listed as AVS 4487, GEOG 4487, and GEO 4487)

See GEOG 4487 for course information.

4680 Field School in Cultural Anthropology (Cross-listed as ANT 4680)

See ANT 4680 for course information.

4V13 Special Topics in Field and Laboratory Methodologies

1 to 3 sem. hrs.

Prerequisite(s): Upper-level standing or consent of instructor.

A field experience centered on a region, ecosystem type, or environmental issue. Incorporates system-specific sampling methodologies. Requires off-campus field trips. May be repeated up to a total of three credit hours when content differs.

4V50 Problems

1 to 3 sem. hrs.

Advanced interdisciplinary study of the environment. Subject and hours credit mutually agreed upon by student and directing professor(s) prior to registration. May be repeated for a maximum total credit of three semester hours.

5155 Advanced In-Situ Instrumentation Techniques (Cross-listed as PHY 5155)

See PHY 5155 for course information.

5300 Integrative Seminar in Environmental Studies

An in-depth interdisciplinary examination of environmental practices in six areas: the ecosphere, human ecosystems, principles and practices in areas such as the ecosphere, human

ecosystems, natural resources and pollution, environment and society, methodology, and emerging themes.

5303 Environmental Chemical Analysis

Prerequisite(s): ENV 3387 or CHE 3331; or consent of instructor.

Analytic chemistry techniques used in environmental science including sampling, wet chemistry, chromatography, and spectroscopic methods.

5310 Agricultural Ecology

Ecological basis for food production in both temperate and tropical countries with emphasis on understanding the nature of the vulnerability of agriculture to environmental disturbance and on possible mechanisms to improve the stability and sustained productivity of improve the stability and sustained productivity of agricultural systems.

5315 Research Design and Methods

Prerequisite(s): Senior or graduate standing; or consent of instructor.

Research design and methods. Students produce a comprehensive research proposal in their major field(s) of study and submit for funding to appropriate agency or foundation.

5321 Energy Economics (Cross-listed as ECO 5321)

See ECO 5321 for course information.

5323 Research Design and Research Methods (Cross-listed as PSC 5323)

See PSC 5323 for course information.

5330 Conservation Biology (Cross-listed as BIO 5330)

See BIO 5330 for course information.

5342 Ecological Risk Assessment

Prerequisite(s): Graduate standing or consent of instructor.

A thorough treatment of assessment procedures for quantifying hazardous effects of chemicals on the environment. Topics will include but are not limited to components of risk assessment paradigm, ecological risk assessment for contaminated sites, the precautionary principle, and other contemporary risk assessment issues.

5350 The Environment and Third World Development

This course introduces students to the field of environmental issues and Third World development with emphasis on sustainable development and ensured environmental security.

5360 Biological Invasions: Ecology and Management (Cross-listed as BIO 5360)

See BIO 5360 for course information.

5368 Integrated Energy Resource Systems (Cross-listed as AVS 5368)

A seminar approach which examines various examples of integrated energy systems combining different renewable and conventional resources.

5370 Advanced Environmental Toxicology and Chemistry

Prerequisite(s): Two semesters each of university-level chemistry and biology or consent of instructor.

Advanced principles of environmental toxicology, environmental fate of pollutants, and risk assessment. The course will focus on contemporary topics and methodology.

5373 Advanced Environmental Biotechnology

Prerequisite(s): Two semesters each of university-level chemistry and biology; or consent of instructor.

Special applications of biotechnology in the areas of degradation and remediation of environmental contaminants; environmental implications of genetic engineering.

5376 Advanced Urban and Regional Comprehensive Environmental Planning

Seminar which examines the application of the principles and practices of comprehensive planning at the urban and regional levels emphasizing the implications of the natural environmental characteristics of an area while addressing the social, economic, and physical environmental needs of a community.

5377 Landscape Ecology (Cross-listed as BIO 5377)

See BIO 5377 for course information.

5379 Ecosystem Management

Prerequisite(s): Graduate standing or permission of instructor.

A seminar in the application of ecological principles to the management of terrestrial, freshwater and marine communities and ecosystems. An overview for students from all environmental specialties with an emphasis on case histories.

5387 Advanced Environmental Chemistry

Prerequisite(s): Four semesters of university-level chemistry; or consent of instructor.

Sources and implications of chemical pollution, cost/benefit analyses, chemical implications of alternative energy sources, waste minimization, recycling, and decontamination considerations.

5391 Measurement Methods and Data Analysis for Air Pollution Research

Prerequisite(s): CHE 1301 and 1302; or AVS 4320 and 4330; or consent of instructor.

Measurement methods, such as spectroscopy, and statistical analysis used to characterize the chemical and physical properties of air to determine pollution levels and air quality.

5393 Atmospheric Chemistry and Physics (Cross-listed as AVS 5393)

Prerequisite(s): CHE 1301 and 1302; or AVS 4320 and 4330; or consent of instructor.

Chemistry and physics of the troposphere and stratosphere, including photochemistry, chemical kinetics, aerosol formation, micrometeorology, atmospheric modeling, and other advanced topics.

5404 Wetland Ecology and Management (Cross-listed as BIO 5404)

See BIO 5404 for course information.

5405 Stream Ecology (Cross-listed as BIO 5405)

See BIO 5405 for course information.

5413 Advanced Ecological Data Analysis (Cross-listed as BIO 5413)

See BIO 5413 for course information.

5V52 Special Topics in Environmental Analysis

1 to 6 sem. hrs.

The course may be repeated depending on the combination of semester hours up to a maximum of six semester hours.

5V90 Graduate Environmental Practicum

1 to 3 sem. hrs.

Prerequisite(s): Consent of instructor.

A practicum supervised by an environmental professional. May be salaried or volunteer. Requires one hundred fifty to one hundred sixty hours of work per semester hour. Students are required to complete three hours of ENV 5V90 for their degree requirements.

5V99 Research for Master's Thesis

1 to 6 sem. hrs.

The course is required to be repeated depending on the combination of semester hours up to a minimum of six semester hours.

EXERCISE, NUTRITION AND PREVENTATIVE HEALTH (ENH)

6100 Laboratory Rotation: Exercise and Weight Management

Prerequisite(s): Doctoral graduate student standing or consent of instructor.

This course is designed to provide hands on experience in conducting nutritional dietary assessment, nutritional status, resting energy expenditure, and body composition assessment. The course will discuss various issues related to conducting various assessments used in nutrition and weight loss research.

6102 Laboratory Rotation: Exercise Rehabilitation

Prerequisite(s): Doctoral graduate student standing or consent of instructor.

This course is designed to provide hands-on experience in conducting exercise-related research techniques. The course will also discuss various issues related to conducting exercise and rehabilitation research focusing on resistance training.

6104 Laboratory Rotation: Preventive Health

Prerequisite(s): Doctoral graduate student standing or consent of instructor.

This course is designed to provide hands-on experience in conducting preventive health research, including clinical trials, community based research, and instrument development.

6106 Research Seminar

Prerequisite(s): Doctoral graduate student standing or consent of instructor.

The research seminar designed to provide an informal opportunity for students and doctoral program faculty to discuss current research in exercise, nutrition, and preventive health as well as various professional issues and/or topics of interest (e.g., grant writing, funding opportunities for research, employment opportunities, teaching techniques, tenure process, presentation methods, etc.) The seminar will also provide an opportunity for students to present research proposals and/or presentations.

6300 Research Methods: Nutrition and Weight Management

Prerequisite(s): Doctoral graduate student standing or consent of instructor.

This course is designed to provide a comprehensive overview of emerging research methods and techniques involved in conducting nutrition research. The course will emphasize assessment of nutritional status (e.g. diet, metabolic rate, etc.) and body composition assessment. Additionally, it will discuss issues related to conducting nutrition related clinical trials.

6302 Research Methods: Exercise and Rehabilitation

Prerequisite(s): Doctoral graduate student standing or consent of instructor.

This course is designed to provide a comprehensive overview of emerging research models and techniques involved in conducting exercise and rehabilitation research, specifically utilizing resistance training. The course will emphasize assessment of exercise status in healthy and diseased populations. Additionally, it will discuss issues related to conducting exercise-related clinical trials.

6304 Research Methods: Preventive Health

Prerequisite(s): Doctoral graduate student standing or consent of instructor.

This course is designed to provide a comprehensive overview of emerging research methods and techniques involved in conducting preventive health research.

6320 Nutritional Biochemistry

Prerequisite(s): Doctoral graduate student standing or consent of instructor.

Advanced study of the biochemistry of nutrition related to macro and micronutrient synthesis and metabolism. Biochemical structures and pathways involved in conducting nutrition research will be studied.

6322 Exercise, Nutrition, and Endocrinology

Prerequisite(s): Doctoral graduate student standing or consent of instructor.

The study of the relationship between exercise, nutrition and the endocrine system and how this relationship affects exercise performance and good health. The influence of hormonal functions on fluid regulation, immunology, substrate utilization, stress responses, biological rhythms and physical performance will be studied.

6324 Muscle Physiology and Metabolism

Prerequisite(s): Doctoral graduate student standing or consent of instructor.

Advanced study of the microstructure, function, and metabolism of human muscle with attention to molecular, histochemical, and biochemical assessment methodology used to assess the effects of exercise, training, and/or nutritional interventions on muscle physiology and biochemistry.

6326 Advanced Nutrition I: Macronutrients, Exercise & Health

Prerequisite(s): Doctoral graduate student standing or consent of instructor.

The advanced study of the role of carbohydrate, fat, and the advanced study of the role of carbohydrate, fat, and protein on exercise, performance, and health. The course will focus on how dietary manipulation of macronutrients affects resting and exercise metabolism, disease prevention and/or disease management.

6328 Advanced Nutrition II: Micronutrients, Exercise and Health

Prerequisite(s): ENH 6326 and doctoral graduate student standing or consent of instructor.

Advanced study of the role of vitamins and minerals on exercise, performance, and health. This course will focus on how dietary manipulation of vitamins and minerals affects resting and exercise metabolism, disease prevention, and/or disease management.

6330 Obesity and Weight Management

Prerequisite(s): Doctoral graduate student standing or consent of instructor.

Advanced study of obesity including the medical, emotional and psychological conditions that involve weight problems. Effective and age-appropriate weight management techniques will be investigated in terms of the life cycle stage. Current theories, methods, and techniques related to weight loss, weight management, and conducting obesity research will be studied.

6340 Health Aspects of Strength and Conditioning

Prerequisite(s): Doctoral graduate student standing or consent of instructor.

An advanced study of the role of resistance exercise and training in the prevention and management of chronic disease. The course will investigate physiological adaptations of the musculoskeletal and neuromuscular systems to resistance training that serve to optimize health.

6342 Health Aspects of Cardiopulmonary Conditioning

Prerequisite(s): Doctoral graduate student standing or consent of instructor.

The study of the physiological regulation of the cardiovascular and pulmonary systems. The response of the cardiopulmonary system to exercise in healthy, athletic and diseased populations will be studied.

6344 Therapeutic Exercise Programming for Special Populations

Prerequisite(s): Doctoral graduate student standing or consent of instructor.

An advanced study of the methods and techniques of designing, monitoring, and assessing outcomes of therapeutic exercise rehabilitation programs for individuals with chronic disease and/or disabilities.

6346 Orthopedic Rehabilitation

Prerequisite(s): Doctoral graduate student standing or consent of instructor.

Advanced study of the principles and theory of designing, monitoring and assessing outcomes of orthopedic rehabilitation. Tools and techniques utilized to conduct research in orthopedic rehabilitation including isokinetics, EMG, computerized dynamic posturography, and gait analysis equipment will be studied.

6348 Exercise Adherence and Motivation

Prerequisite(s): Doctoral graduate student or consent of instructor.

The study of the theoretical foundations and research base for physical activity behavior change and exercise adherence. Innovative methods for affecting attitudes, knowledge, and behavior regarding exercise initiation and adherence in individuals and groups will be discussed.

6360 Theories and Strategies for Health Behavior Change

Prerequisite(s): Doctoral graduate student standing or consent from the instructor.

The study of behavior change and planning models used in health behavior research design. Theory-based preventive health and health promotion strategies (e.g., faith-based, recreational/leisure, coordinated school health programs) are discussed.

6362 Design of Outcome-Based Health Interventions

Prerequisite(s): ENH 6360.

The study of research-specific needs assessment and design of health intervention programs to produce measurable impact and outcomes. Addresses influences (e.g., policies, capacities, cultures of government agencies, corporations, community organizations) on intervention processes and results. Grant-writing project frames intervention design and enables collaboration with grant-funding decision-makers.

6364 Analysis of Health Promotion Interventions

Prerequisite(s): EHN 6362.

This course focuses on analysis of health promotion as interventions to detect measurable impacts and outcomes. Overviews program evaluation from a practitioner's viewpoint and helps students understand the difference between process, impact and outcome analysis and the relative use of each within a research paradigm.

6366 Preventive Health in Medically Underserved Populations

Prerequisite(s): All core doctoral courses or permission of instructor.

The study of multicultural preventive health and health promotion efforts in medically underserved populations. Examines traditional cultural health beliefs and practices of a variety of ethnic groups and overviews the culture of poverty. The course will also focus on conducting culturally competent health research among medically underserved populations.

6368 Preventive Health in Aging Populations

Prerequisite(s): Doctoral graduate student standing or permission from instructor.

Overviews the psychosocial theories and concepts of aging including terminology used in preventive health among aging populations. Research evidence for health disparities among aging populations will be covered as well as the practical application of research in order to work effectively with aging individuals in a variety of settings (e.g., faith-based, recreational/leisure).

6V30 Clinical Research Rotations**1 to 6 sem. hrs.**

Prerequisite(s): Doctoral graduate student standing or consent of instructor.

This course provides students with an opportunity to participate in research and clinical practice rotations within the Department, University, and various collaborative clinical research centers conducting research on exercise, nutrition and/or preventive health.

6V99 Dissertation**1 to 6 sem. hrs.**

Supervised research for the completion of the doctoral dissertation and doctoral degree.

FAMILY AND CONSUMER SCIENCES (FCS)**4351 Life Cycle Nutrition**

Prerequisite(s): A minimum grade of C in FCS 2351 or consent of instructor.

Nutritional needs of individuals as they progress through the life cycle from birth through aging, with consideration of concomitant problems. (3-0)

4359 Parenting

Factors to consider in becoming a parent, child-rearing practices, diverse parenting situations, and parent-child communication. (3-0)

4363 Adolescent Development

Prerequisite(s): Upper-level standing.

The psychosocial, social-emotional, and cognitive language development of adolescents.

4367 Family Transitions, Stress, and Resilience

Prerequisite(s): Upper level standing or consent of the instructor.

Current theory and models seeking to understand family transitions, stress, coping, adaptation, and resilience.

4368 Family Perspectives on Aging

Prerequisite(s): Upper-level standing.

A study of normative aging processes within the family context. (3-0)

4387 Advanced Nutrition

Prerequisite(s): Dietetics majors must have a minimum GPA of 2.5 in FCS 2351, BIO 1305, CHE 1301, 1341 and 3341; and a minimum grade of C in FCS 2351.

Nutrients and their roles in human health. Emphasis on trends in nutritional research. (3-0)

5351 Nutrition and Aging (Cross-listed as GRT 5351)

Prerequisite(s): FCS 2351 or consent of instructor.

Nutritional needs of individuals as they age. Disease prevention, nutrition assessment, and the central role of nutrition in maintaining health and well being.

5352 Pediatric Nutrition

Prerequisite(s): Graduate standing.

An in-depth investigation of all aspects of pediatric nutrition. The course will cover nutrition concerns from conception through adolescence.

5354 Nutrition in Public Health

Prerequisite(s): 12 hours undergraduate in nutrition and related subjects, or consent of instructor.

A comprehensive study of Public Health and the role Nutrition plays in maintaining the health and well being of communities.

5370 Research Methods in Nutrition Sciences

Prerequisite(s): Graduate standing.

An in-depth investigation of research procedures in Nutrition Sciences.

FILM AND DIGITAL MEDIA (FDM)**4311 Telecommunication Policy**

Prerequisite(s): Upper-level standing.

Basic documents governing United States telecommunications; participants in the process of making telecommunication policy; central issues associated with telecommunication policy; methods and problem solving techniques used in the policy making process; and basic laws and policies affecting journalists.

4313 Diffusion of Innovations

Prerequisite(s): Upper-level standing or consent of instructor.

An introduction to old and emerging theories which explain the spread of innovative ideas and technologies among members of a society, emphasizing the role of communication processes and the special problems for diffusion in communication technology.

4314 Digital Media Technologies

Prerequisite(s): Upper-level standing or consent of instructor.

Analysis of the technical foundations of communication media, the interrelationships among the various media technologies, and the impact of these technologies on media management, content, distribution, and consumption.

4325 Public Broadcasting

Prerequisite(s): FDM 1303 and upper-level standing, or consent of instructor.

A survey of non-profit management in the context of public broadcasting.

4340 Media and Society

Prerequisite(s): Upper-level standing or consent of instructor.

Roles of the media in society and their relationship with other societal institutions. Impacts of the media upon society, responsibilities of the media, and restraints imposed upon them.

4341 Electronic Culture

Prerequisite(s): Upper-level standing or consent of instructor.

An examination of the issues at the intersection of modern media technology, philosophy, and contemporary culture.

4342 Art and the Moving Image

Prerequisite(s): Upper-level standing or consent of instructor.

An examination of the cinema as an art form in the context of other artistic media (such as painting, music, etc.).

4343 Film and Video Aesthetics: Theory and Criticism

Prerequisite(s): Upper-level standing or consent of instructor.

The artistic potential of motion picture and television production, including major film theories, film and video criticism, and visual aesthetics. Dramatic narrative (fiction), documentary (non-fiction), and non-narrative subjects will be analyzed.

4345 The Mass Communication Campaign

Prerequisite(s): Upper-level standing or consent of instructor.

Theories of mass communication, case studies in campaigns and their effectiveness. Group portfolio project in real campaign effort requiring practical application of social science methods, including survey design and analysis.

4347 Communication and Culture

Prerequisite(s): Upper-level standing or consent of instructor.

An examination of the reciprocal functions of communication and urban culture as they continue to shape and define each other. Specific areas of inquiry vary each semester. May be repeated once with a different topic (maximum six semester hours).

4361 Audio Production

Prerequisite(s): FDM 3361 or consent of instructor.

Advanced audio techniques for media productions, technical and conceptual aspects of sound design. Emphasis on sound/image relationships in film and video, and the interface between traditional analog and digital audio technologies. Includes recording, editing, and mixing of audio sources in the creation of original sound tracks. Lab fee required.

4362 Field Production

Prerequisite(s): FDM 3361 or consent of instructor.

Advanced production with an emphasis on a single-camera on-location approach. Concentrates on the pictorial qualities of the individual shot, overall cinematographic style, and the staging and coverage of scenes. Lab fee required.

4363 High Definition Studio Production

Prerequisite(s): FDM 3361.

Develops proficiency in producing, directing, and editing of High Definition (HD) digital content using single camera and multi-camera studio techniques. This course covers pre-visualization, visual effects compositing, digital audio, and HD postproduction. Emphasis on bringing ideas from conception to realization in HD studio environment.

4364 Interactive Media

Prerequisite(s): FDM 3361 or consent of instructor.

Interactive media elements and authoring systems, emphasizing the integration of computer technology in the development of interactive media messages.

4366 Post Production

Prerequisite(s): FDM 3361 or consent of instructor.

Advanced film and video production with emphasis on the techniques, equipment, and theories involved in editing film and video. Emphasis on the use of computer-based non-linear editing systems. Lab fee required.

4367 Film and Video Direction

Prerequisite(s): FDM 3361 or consent of instructor.

In-depth investigation into the history, theory, and basic concepts of film and video direction; script preparation; story-boarding; blocking actors and staging the camera; sound; and editing. Projects include directing and shooting short videos. Lab fee required.

4380 Topics in Media History

Prerequisite(s): Upper-level standing or consent of instructor.

In-depth investigation of important historical eras in the development of various media, for example, cinema, television, radio, and gaming. May be repeated twice under different topic not to exceed nine credit hours.

4381 Topics in Media Management and Technology

Prerequisite(s): Upper-level standing or consent of instructor.

Examines media management issues and the impact of technological innovations on a wide range of media industries including broadcasting, Internet, telecommunication, cable, satellite, video game, and digital cinema. May be repeated twice under different topics, not to exceed nine credit hours.

4382 Topics in Media Storytelling

Prerequisite(s): Upper-level standing or consent of instructor.

Examines a selected topic in film, television, radio/audio, games, or other form of digital media storytelling. May be repeated twice under different topics, not to exceed nine credit hours.

4384 Topics in National Media

Prerequisite(s): Upper-level standing or consent of instructor.

An aesthetic, cultural, and/or historical examination of a selected national mass medium, for example, Japanese Cinema, British Television, or French New Wave Cinema. Focuses on directors, films/programs, movements, and cultural contests of national media. May be repeated twice under different topics not to exceed nine credit hours.

4388 Topics in Media Production

Prerequisite(s): FDM 3361 or consent of instructor.

Advanced media production with emphasis on one particular aspect of production. Topics covered may include cinematography, experimental film or video collaborative projects, documentary, studio drama, narrative, and other topics. May be repeated twice under different topics not to exceed nine credit hours. Lab fee required.

4396 Topics in Media Genres

Prerequisite(s): Upper-level standing or consent of instructor.

An analysis of major media genres (in film, television, gaming, and other media). Methodological issues in genre criticism will also be addressed. May be repeated twice under different topics not to exceed nine credit hours.

4397 Topics in Contemporary Cinema

Prerequisite(s): Upper-level standing.

An academic examination of current cinema. Topics covered may include contemporary world cinema, contemporary American cinema, artists/directors, philosophy, history and other topics. May be repeated once with a different topic.

4V03 Internship in Electronic and Film Media**1 to 3 sem. hrs.**

Prerequisite(s): Undergraduate: fifteen hours in major; graduate: consent of graduate director.

Designed to fit the needs and interests of the individual student. Interns may select activities in a broadcast station or network, wire service, film production hours, corporate communications department, advertising agency, or in other appropriate organizations. Internships must be approved by the division director (undergraduate) or graduate director (graduate) and are carried out under the supervision of the division director. May be repeated for a total of six semester hours provided the professional setting is different. Graduate students will be limited to three hours credit.

4V98 Electronic and Film Media Workshop**3 to 6 sem. hrs.**

Prerequisite(s): Consent of instructor.

A directed project to a detailed individual or group radio, television, or film production including preproduction, research and concept development, production, post production, and planning for distribution. May be repeated once in a different semester for a total of six semester hours.

5303 Internship in Film & Digital Media

Prerequisite(s): Consent of instructor.

Provides graduate students the opportunity for application of film & digital media skills and knowledge carried out under the supervision of a professional employer in a media-related organization.

5336 Seminar in Film and Electronic Media

Selected topics in the film or electronic media. Topics may be chosen from the following: mass communication theory, film or broadcasting history, media effects, media regulation, new communication technologies, and political communication. May be repeated once with a different topic.

5346 Seminar in Corporate Telecommunication

Selected topics in corporate telecommunication. Topics may be chosen from the following: telecommunication management, training and development, diffusion of innovations, and impact analysis. May be repeated once with a different topic.

5356 Seminar in Media Aesthetics and Criticism

Selected topics in media aesthetic criticism. Topics may be chosen from the following: film theory, semiotic analysis, visual literacy, and approaches to film criticism (i.e., cinema). May be repeated once with a different topic.

5366 Graduate Production Workshop

Prerequisite(s): Consent of instructor.

Advanced production-oriented workshop with emphasis on enabling students to practice their craft and work towards completion of festival-worthy productions. Particular emphasis on preproduction, research and concept development, production, and post-production. May be repeated once in a different semester for a total of six semester hours.

5V35 Problems in Film and Digital Media**1 to 6 sem. hrs.**

Designed to give individual students opportunities for additional work in their area of concentration in film and digital media. May be repeated in a different semester for up to a total of six semester hours.

5V90 Professional Paper or Project in Film & Digital Media**1 to 3 sem. hrs.**

Satisfies the non-thesis option for the master of communication studies. Under the direction of a supervising professor, a student will select a problem or topic in film and digital media and will write a substantial paper or produce a substantial project for submission to the faculty. Maximum three credit hours.

5V99 Thesis**1 to 6 sem. hrs.****FINANCE (FIN)****5161 Corporate Finance-Planning**

Prerequisite(s): Admission to MBA program.

An introductory financial perspective to (1) why a publicly- traded firm exists and (2) what is the optimal approach for managing a publicly-traded firm. Comparisons are made between how privately-held firms and public sector institutions are managed.

5162 Corporate Finance-Implementation

Prerequisite(s): FIN 5161.

This one-hour module builds on the principles of optimal project selection introduced in FIN 5161. Usage of the Capital Asset Pricing Model for determining project rates is demonstrated. Both internal financing decisions (dividend decisions) and external financing decisions (debt vs. equity) are introduced.

5163 Financial Control

Prerequisite(s): FIN 5162.

The concluding module on strategic Corporate Financial Management, exploring optimal strategies for financing the firm's projects. The theoretical linkage between the modern option pricing model, efficient capital markets, agency theory, and the theory of the firm is developed.

5220 Private Equity Investing

Prerequisite(s): Admission to the Executive MBA program.

The central focus of the course is to gain an understanding of the financing of entrepreneurial ventures, including ways investors identify and commit the necessary resources to create and finance ventures. To accomplish these objectives the course addresses specific skills, concepts, and know-how relevant for attracting private equity financing to an entrepreneurial venture.

5260 Financial Decision Making

Prerequisite(s): Admission to the Executive MBA program.

A study of how firms create value for stockholders through long-term financial decisions, principally asset acquisition/divestiture decisions and debt/equity funding decisions. Specific topics include economic profit and cash flow, the time value of money, risk and return, options, agency, efficient markets, capital budgeting decision criteria, capital structure theory, and dividend policy theory.

5263 Managing for Value Creation

Prerequisite(s): Admission to Executive MBA program.

In this course we construct simulation models for use in evaluating uncertain project outcomes; utilize the method of comparables and discounted cash flow to estimate the intrinsic worth of a firm; evaluate the real option components of risky investment projects; evaluate firm performance in terms of shareholder value created; analyze the shareholder wealth consequences of corporate

restructuring activities including mergers, leveraged buyouts, leveraged recapitalizations and initial public offerings; and discuss the ethical implications of corporate restructuring activities.

5329 Entrepreneurial Finance (Cross-listed as ENT 5329)

See course information for ENT 5329.

5330 Seminar in Real Estate Valuation (Cross-listed as RE 5330)

See RE 5330 for course information.

5331 Seminar in International Finance

A study of international financial management. Principal topics include issues in international business and finance; basic concepts, types, and issues of international financial markets; the mechanics of foreign exchange (FX) dealings and the effect of exchange rate fluctuations on corporate operations; currency derivatives and the implementation of FX risk hedging techniques; and short- and long-term financing decisions and risk management. With a focus on the enhancement of analytical skills based on the tools and theory of international finance, this course will promote critical thinking skills of the student.

5333 Foreign Exchange Markets and International Monetary Institutions (Cross-listed as ECO 5333)

See ECO 5333 for course information.

5335 Seminar in Integrated Business Risk Management (Cross-listed as RMI 5335)

See RMI 5335 for course information.

5360 Seminar in Corporate Finance (Cross-listed as ECO 5360)

Prerequisite(s): Admission to the MACC or MTAX program, or consent of instructor.

A study of how firms create value for stockholders through long-term financial decisions, principally asset acquisition/divestiture decisions and debt/equity funding decisions. Specific topics include economic profit and cash flow, the time value of money, risk and return, options, agency, efficient markets, capital budgeting decision criteria, capital structure theory, and dividend policy theory.

5362 Seminar in Corporate Short-term Financial Management (Cross-listed as ECO 5362)

This course covers the short-term financial management functions and responsibilities typical of a Corporate Treasurer. Areas covered include cash and liquidity positioning, credit extension and collections, payables management, bank relations, short-term investing and borrowing, and management of interest rate and foreign exchange risks, all with a focus on current business practices. Lectures and readings are reinforced with individual and group projects and cases. The class will also provide partial preparation for students wishing to take the Certified Treasury Professional (CTP) exam.

5363 Seminar in Mergers and Acquisitions (Cross-listed as ENT 5363)

The merger and acquisition phenomenon, both domestic and international. The course focuses on the economic rationale for a merger from the perspective of the various “stakeholders,” particularly from the view of shareholders. Significant attention is given to valuing a merger prospect as well as to determining how the “deal” is structured financially. Lectures are supplemented with group projects and cases.

5365 Investment Management (Cross-listed as ECO 5365)

Theory and practice of portfolio investment with emphasis on stocks, bonds, and portfolio management. Major topics include portfolio theory, performance evaluation, market efficiency, equity and bond management strategies, the use of derivative securities in portfolio management, and mutual funds. Current readings and cases supplement the text.

5367 Seminar in Financial Planning

Personal financial planning, incorporating material from investments, insurance, retirement

benefits, taxation, and estate planning into a coordinated financial planning process. Case analysis is used to demonstrate the complexities involved in solving financial planning situations. Formulation of financial plans and counseling techniques are also examined.

5368 Seminar in Financial Markets (Cross-listed as ECO 5368)

U.S. money and capital markets, including international money markets, financial institutions, fixed-income analysis and management, bank funds management, options, futures, options on futures, investment banking, and mergers and acquisitions. Special emphasis is given to the management of interest rate risk in financial institutions.

5370 Management of Financial Institutions (Cross-listed as ECO 5370)

A study of the major issues involved in managing financial institutions. Principal topics include the role of financial institutions as intermediaries between providers and users of investment funds; financial performance of such institutions; loan management, commercial credit analysis, and loan pricing; liquidity and reserve management; investment management; capital structure, liability management, and the cost of funds; and asset/liability management. The regulatory environment for financial institutions is also examined. Lectures and readings are supplemented with group projects and presentations.

5380 Healthcare Finance (Cross-listed as HPA 5380)

See HPA 5380 for course information.

5381 Practicum in Portfolio Management

Prerequisite(s): FIN 5365 or equivalent, and consent of instructor.

This practicum gives students valuable hands-on experience in securities research, valuation of risky assets, and asset allocation by managing the Philip M. Dorr and Alumni Endowed Investment Fund. Through readings and student-prepared research reports students develop skills in evaluating economic, industry, and firm data; integrating such data into securities analysis; and communicating their research results to others.

5V98 Special Studies in Finance**1 to 6 sem. hrs.**

Prerequisite(s): Consent of instructor.

This course may be taken for one to six semester hours of credit.

5V99 Thesis**1 to 6 sem. hrs.**

Prerequisite(s): Consent of instructor.

FINANCE (MFIN)**5340 Investments**

Through a study of portfolio theory and asset-pricing models, students acquire the analytical skills necessary to conduct valuations of equities, fixed income securities, and alternative investments. This course applies theoretical concepts to investment analysis and portfolio management.

FORENSIC SCIENCE (FORS)**4355 Forensic Anthropology (Cross-listed as ANT 4355)**

See ANT 4355 for course information.

FRENCH (FRE)

5370 French for Graduate Students I

Reading of intermediate-level French texts. No previous language experience required. Limited to graduate students or to undergraduates by petition. Does not count toward foreign language requirement for undergraduate students.

5371 French for Graduate Students II

Prerequisite(s): FRE 5370 or consent of instructor.

Continuation of FRE 5370. Reading of intermediate-level French texts. No previous language experience required. Limited to graduate students or to undergraduates by petition. Does not count toward foreign language requirement for undergraduate students.

GEOGRAPHY (GEOG)

4314 Meteorology (Cross-listed as AVS 4311 and GEO 4314)

Prerequisite(s): Upper-level standing or consent of instructor.

Composition of the atmosphere, atmospheric processes, weather disturbances, and climate elements and controls. Emphasis is placed on climate classification and measurements of human inputs into the atmosphere.

4315 Political Geography (Cross-listed as PSC 4315)

See PSC 4315 for course information.

4333 Coastal Zone Management (Cross-listed as ENV 4333)

See ENV 4333 for course description.

4340 Geomorphology (Cross-listed as GEO 4340)

Prerequisite(s): Upper-level standing.

Development and modification of land-surface forms by atmospheric, fluvial, glacial, mass-wasting, volcanic, and tectonic agents. Emphasis is placed on the spatial aspects of landscape evolution.

4386 Remote Sensing (Cross-listed as AVS 4386, BIO 4386, ENV 4386, and GEO 4386)

See GEO 4386 for course information.

4485 Introduction to Geographic Information Systems (Cross-listed as AVS 4485, ENV 4485, and GEO 4485)

Prerequisite(s): Upper-level standing.

The course covers the use of GIS to acquire primary geographic data, solve geographic problems, automate geographic analysis, and render explanations for geographic patterns and trends. Students will use the latest GIS software and data layers in a lab section.

4487 Advanced GIS Analysis (Cross-listed as AVS 4487, ENV 4487, and GEO 4487)

Prerequisite(s): GEOG 4485, GEO 4485, ENV 4485, or AVS 4485; and upper-level standing.

Principles and techniques for geospatial data collection, manipulation, modeling, visualization, and analysis. Emphasis is placed on current raster modeling techniques, spatial statistical analysis methods, and using GIS as a predictive tool for environmental research.

GEOLOGY (GEO)

4255 Advanced Seismic Interpretation

Prerequisite(s): GEO 4458 or consent of instructor.

Modern techniques used to extract geological information from seismic reflection data. Emphasis is placed on the interpretation of real data sets and the construction of subsurface maps and sections.

4312 Oceanography

Physical, chemical, biological, and geological aspects of the oceans with special emphasis on the direct and indirect relationships of humans to the oceans. Such topics as mining the sea and its floor, farming the seas, and influence of the oceans on weather are included. Field trips and laboratory exercises. May not be taken for credit if GEO 1402 has been taken.

4313 Astronomy

A brief history of astronomy developments followed by a survey of the dimensions, motions, and interrelationships of bodies in our solar system. Additional emphasis is given to galaxies, stellar evolution, and cosmology. (2-1)

4314 Meteorology (Cross-listed as AVS 4311 and GEOG 4314)

See GEOG 4314 for course information.

4325 Economic Mineral Deposits

Prerequisite(s): GEO 3427 and 3445.

Non-hydrocarbon economic mineral deposits. Origin and migration of ore-bearing fluids; mineralogy and geometry of ore bodies; relations of ore deposits to magnetism and tectonics. Field trip to Central Texas mining district.

4328 Sedimentary Petrology

Prerequisite(s): GEO 3427 and 3435 or consent of instructor.

Microscopic and field characteristics of sedimentary rocks. Emphasis on interpretation of depositional and diagenetic environments and relationships between geometry of rock bodies and sedimentary processes.

4335 Volcanology

Prerequisite(s): Consent of instructor.

Analysis of volcanic ejecta. Mechanisms of lava and pyroclastic eruptions. Geomorphological analysis of volcanic land forms. History of volcanological studies and case studies of well known volcanoes. Field trips.

4336 Analytical Techniques in Geochemistry

Prerequisite(s): GEO 3427.

Principles and practice of X-ray fluorescence and electron probe analysis of geologic materials. Includes extensive laboratory work. (2-2)

4337 Paleocology

Prerequisite(s): GEO 3435 or consent of instructor.

Relationship of fossil plants and animals to their physical and biological environment. Examination of principles of paleosynecology and paleoautecology; data gathering, analysis, and techniques of interpretation. (2-2)

4339 Advanced Marine Field Studies (Cross-listed as BIO 4339)

Prerequisite(s): GEO 3341 or 5333 or BIO 3341.

Continuation of GEO 3341/5333. Field examination of marine environments. Individual research projects emphasize biology and geology of carbonate depositional regimes.

4340 Geomorphology (Cross-listed as GEOG 4340)

See GEOG 4340 for course information.

4341 Introduction to Hydrology

Prerequisite(s): Consent of instructor.

Basic applied techniques in surface and ground water hydrology. Surface water hydrology will incorporate analysis of precipitation records, runoff processes, and calculation of flood hazard. Ground water hydrology will emphasize hydrogeology techniques, including simple models of ground water movement.

4345 Water Management (Cross-listed as ENV 4345)

See ENV 4345 for course information.

4346 Hydrogeology

Prerequisite(s): GEO 3342 and 3445.

Hydrogeology (ground water hydrology) for geologists and engineers. Topics to be covered include evaporation and precipitation, soil moisture, principles of ground water flow, regional ground water flow, geology of ground water occurrence, flow to wells, ground water chemistry, and ground water development and management. (2-1)

4348 Geoarchaeology (Cross-listed as ANT 4348 and ARC 4348)

Prerequisite(s): Upper-level standing or consent of instructor.

Concepts and methods of the geosciences applied to solving archaeological problems. Emphasis on stratigraphy, soils, climate, dating techniques, site formation, and site preservation related to both New World and Old World archaeology.

4371 Wetlands (Cross-listed as ENV 4371)

Prerequisite(s): Upper-level standing or consent of instructor.

Theory and application of the wetland concepts: classification, hydrology, biochemistry, soils, vegetation, construction, regulation, and delineation. Field lab.

4373 Global Soil Systems (Cross-listed as ENV 4374)

Fundamentals of soil genesis, classification, geomorphology, ecosystems, and environmental interpretation. Includes the role of soil biogeochemical cycles in past, current, and future global change issues. Field lab.

4375 Natural Landscape Evaluation and Planning (Cross-listed as ENV 4375)

Recognition of natural features that affect human uses. Evaluation of natural landscapes on a scale from complete preservation to full development. Experience in urban landscapes. Includes one or more Saturday field trips.

4386 Remote Sensing (Cross-listed as AVS 4386, BIO 4386, ENV 4386, and GEOG 4386)

Prerequisite(s): Consent of instructor.

Physical mechanisms of surface and atmospheric materials absorption, transmittance, reflection, and emittance of light measured by various remote sensing platforms. Survey various applications related to earth science, ecology, meteorology, and environmental science.

4389 Quaternary Geology

Prerequisite(s): GEOG 1404, GEO 1405, 1406, or 1408; or consent of instructor; and upper-level standing.

An examination through morphologic, stratigraphic, and biogeochemical proxy data of the nature of earth environments, focusing on the three most important components: Quaternary stratigraphies, Quaternary chronologies, and Quaternary environmental proxies and their interpretation.

4457 Geophysical Exploration I

Prerequisite(s): GEO 3342 and 3445 and consent of instructor.

Exploration geophysics, using gravity, magnetics, heat flow, telluric currents, resistivity, and

other methods of remote sensing of hidden geological phenomena exclusive of seismic exploration. Laboratory work will emphasize geological interpretation of geophysical data.

4458 Geophysical Exploration II

Prerequisite(s): GEO 3342 and 3445; and consent of instructor.

Exploration geophysics, using latest seismic techniques and well-log analyses, with emphasis on petroleum exploration.

4459 Engineering Geology

Prerequisite(s): Consent of instructor.

Soil and rock mechanics. Analysis of geotechnical problems in the field and lab, report preparation, and computer evaluation of geotechnical problems. (3-4)

4465 Petroleum Geology

Prerequisite(s): GEO 3342 and 3445.

Origin, migration, and accumulation of petroleum. Exploration and production methods for hydrocarbon recovery. (2-6)

4485 Introduction to Geographic Information Systems (Cross-listed as AVS 4485, ENV 4485, and GEOG 4485)

See GEOG 4485 for course information.

4487 Advanced GIS Analysis (Cross-listed as AVS 4487, ENV 4487, and GEOG 4487)

See GEOG 4487 for course information.

5050 Geology Technical Sessions

A forum for: (a) outside speakers, (b) presentation of student research, (c) discussion of current geologic and geophysical literature, and (d) guidance in thesis preparation. May be repeated as required by the department. M.S. and M.A. students must attend at least four semesters. Ph.D. candidates must attend while in residence.

5110 History of Geology

Prerequisite(s): Consent of the department.

Evolution of geological thought. Required, or its equivalent, of all M.S., M.A., and Ph.D. candidates.

5252 Seismic Stratigraphy

Interpretation of seismic data for the purpose of inferring stratigraphic changes and depositional environments.

5308 Advanced Studies in Earth Science

Prerequisite(s): Consent of instructor

Special topics in earth science. May be repeated once with change of content.

5315 Clastic/Carbonate Depositional Systems

Prerequisite(s): GEO 4328 and 3342.

Criteria for the recognition of clastic and carbonate depositional environments.

5318 Advanced Studies in Geophysics

Prerequisite(s): Consent of instructor.

Special topics in geophysics. May be repeated with change of content.

5320 Geochemistry

Prerequisite(s): GEO 3342, 3445 and CHE 1302.

Advanced standing in geology. Application of isotope geochemistry, thermodynamics, and phase equilibrium studies to the solution of geological problems.

5321 Isotope Geochemistry

Prerequisite(s): Consent of instructor.

Theory and application of stable and radioactive isotopes in geology with particular emphasis on the use of stable isotopes in solving environmental and hydrogeologic problems.

5325 Advanced Studies in Geochemistry-Petrology

Prerequisite(s): Consent of instructor.

Special topics in geochemistry-petrology. May be repeated with change of content.

5329 Igneous Petrology

Prerequisite(s): GEO 3427 and graduate standing.

Intensive examination of igneous rocks. Format and subject material will vary from year to year, but will include descriptive and genetic aspects of igneous rocks and their relationships to tectonic settings. Laboratory and field trips.

5331 Field Geology for Earth Scientists I

Prerequisite(s): Consent of instructor.

Field experience in the American West. Designed with exercises to acquaint graduate earth science majors with the fundamentals of field geology. Offered in the field during summer sessions for three hours of credit.

5332 Field Geology for Earth Scientists II

Prerequisite(s): Consent of instructor.

Continuation of GEO 5331. Offered in the field during summer sessions for three hours of credit.

5333 Modern/Ancient Depositional Environments I

Prerequisite(s): Consent of instructor.

Field study of depositional systems and facies. Course participants will examine modern depositional environments varying from fluvial, deltaic, beach, and near shore systems to modern barrier and fringing reefs along the Gulf and Atlantic coasts and in the Caribbean. These depositional environments will be used to interpret ancient sedimentary facies examined in the field during the last portion of the course. Offered in the field during summer session for three hours of credit.

5334 Modern/Ancient Depositional Environments II

Prerequisite(s): Consent of instructor.

Continuation of GEO 5333. Offered in the field during the summer session for three hours of credit.

5335 Principles of Micropaleontology

Prerequisite(s): GEO 3435.

Taxonomy, morphology, evolution, paleoecology, and stratigraphic occurrence of important microfossils. Independent field and laboratory problems may be required. (1-4)

5337 Advanced Studies in Remote Sensing Geomorphology

Prerequisite(s): Consent of instructor.

Special topics in remote sensing and geomorphology. May be repeated with change of content.

5338 Advanced Studies in Paleontology

Prerequisite(s): Consent of instructor.

Special topics in paleontology. May be repeated with change of content.

5339 Sandstone Petrology

Prerequisite(s): GEO 4328 and graduate standing.

Petrography of clastic sedimentary rocks. Includes mineralogical study, provenance analysis, and diagenetic interpretation. Field trips.

5340 Paleopedology

Prerequisite(s): Undergraduate mineralogy, stratigraphy, and general chemistry; or consent of instructor.

Field, microscopic, and geochemical analysis of fossil soils (paleosols) and comparison with modern analog soils; interpretation of changes in paleoweathering processes, paleoclimate, and paleoatmospheric chemistry over 4.6 billion years of earth history based on paleosols.

5341 Cordilleran Tectonics

Prerequisite(s): GEO 3445 and consent of instructor.

Geologic history of the North American Cordillera from Precambrian to present, based on analysis of stratigraphic, structural, paleomagnetic, and paleobiogeographic constraints.

5342 Micromorphology of Soils and Paleosols

Prerequisite(s): Undergraduate mineralogy, optical mineralogy, or consent of instructor.

The description, interpretation, and measurement of components, features, and fabrics in soils and paleosols, at the microscopic level.

5343 Advanced Field Sequence Stratigraphy

Concepts of facies analysis and spatial prediction are presented within a sequence stratigraphic context. The course is conducted as a three-week field excursion to various locations within the southwestern USA. The course emphasizes both outcrop and subsurface problem solving, and is supplemented by extensive literature review.

5344 Field Structural Geology I

Instruction in advanced and specialized methods of structural analysis applied to a variety of problems in structural geology. Both local and regional structural relationships will be studied. Location of field study areas will be determined by instructor.

5347 Advanced Hydrogeology

Prerequisite(s): GEO 4346 or consent of instructor.

Analytical techniques and concepts necessary for hydrogeologic research and problem solving. Areas of emphasis will include field methods, well hydraulics, and computer models of ground water systems. Occasional field trips will be required as part of the laboratory.

5348 Applied Ground Water Modeling

Prerequisite(s): GEO 5347.

Lectures on the theory of analytical and numerical models applied to hydrogeological research. Laboratory exercises will involve solving hydrogeological problems, using the models discussed in lecture.

5349 Urban Geology

Interrelationships between geological processes and urban development. Case histories and applied field projects will be examined in surrounding urban areas.

5368 Advanced Studies in Sedimentary Geology

Prerequisite(s): Consent of instructor.

Special topics in sedimentary geology. May be repeated once with change of content.

5369 Advanced Studies in Petroleum Geology

Prerequisite(s): Consent of instructor.

Special topics in petroleum geology. May be repeated with change of content.

5377 Advanced Studies in Structural Geology-Tectonics

Prerequisite(s): Consent of instructor.

Special topics in structural geology-tectonics. May be repeated with change of content.

5378 Advanced Studies in Hydrogeology

Prerequisite(s): Consent of instructor.

Special topics in hydrogeology. May be repeated with change of content.

5388 Advanced Studies in Hydrology-Engineering Geology

Prerequisite(s): Consent of instructor.

Special topics in hydrology-engineering geology. May be repeated with change of content.

5389 Earth System Science

Prerequisite(s): Geology, geography, biology, archaeology, or environmental studies graduate students only; or consent of instructor.

The emphasis of this course is placed on climate changes and the associated environmental variations of different timescales and their forcing mechanisms (including human impacts). Defining the current climatic dynamics and predicting the future trends, based on the changing patterns of different timescales, are the concluding parts of this course.

5398 Advanced Studies in Environmental-Urban Geology

Prerequisite(s): Consent of instructor.

Special topics in environmental-urban geology. May be repeated once with change of content.

5457 Gravity, Magnetic, and Electrical Exploration

Theory and applications of gravitational, magnetic, and electrical techniques to subsurface exploration.

5458 Seismic Exploration

Seismic refraction and reflection techniques and their application to petroleum exploration and to problems of shallow geologic structure.

5656 Application of Geophysics to Environmental Engineering Problems

Prerequisite(s): Graduate standing.

A field course in which seismic, gravity, magnetic, electrical, electromagnetic, well logging and ground penetrating radar techniques are used to solve problems associated with waste disposal, groundwater, and engineering characterizations.

5V90 Special Problems in Geology

Prerequisite(s): Staff approval required.

Individual course in which students solve a geologic problem and submit a written report. Staff approval required.

5V99 Thesis

1 to 6 sem. hrs.

Prerequisite(s): Staff consent required.

6V99 Dissertation

1 to 12 sem. hrs.

Prerequisite(s): Staff consent required.

Required of all doctoral candidates. In no case will less than twelve semester hours be accepted for a dissertation. Students may not enroll for dissertation hours until they have been officially accepted into candidacy for the Ph.D. degree. After initial enrollment, students must enroll for at least one semester hour of dissertation every semester (summer semester excluded).

GERMAN (GER)**5370 German for Graduate Students I**

Reading of intermediate-level German texts. No previous language experience required. Limited to graduate students or to undergraduates by petition. Does not count toward foreign language requirement for undergraduate students.

5371 German for Graduate Students II

Prerequisite(s): GER 5370 or consent of instructor.

Continuation of GER 5370. Reading of intermediate-level German texts. No previous language experience required. Limited to graduate students or to undergraduates by petition. Does not count toward foreign language requirement for undergraduate students.

GERONTOLOGY (GRT)**4340 Ethnicity and Aging (Cross-listed as SOC 4340 and SWO 4340)**

See SWO 4340 for course information.

4342 Social Services for Older Persons (Cross-listed as SWO 4342)

See SWO 4342 for course information.

4393 Sociology of Aging (Cross-listed as SOC 4393 and SWO 4393)

See SOC 4393 for course information.

4395 Aging and Mental Health (Cross-listed as SOC 4395 and SWO 4395)

See SOC 4395 for course information.

5330 Evaluative Research (Cross-listed as SOC 5330)

See SOC 5330 for course information.

5332 The Sociology of Health: Health Delivery Systems (Cross-listed as SOC 5332)

See SOC 5332 for course information.

5336 The Family in Later Life (Cross-listed as SOC 5336 and SWO 5336)

See SWO 5336 for course information.

5351 Nutrition and Aging (Cross-listed as FCS 5351)

See FCS 5351 for course information.

5393 Seminar on Programs in Aging

Federal, state, and local programs affecting older persons, particularly in the areas of health, housing, and social life. Current social policy reflected in legislation and programs for the aging is emphasized.

5395 Sociopsychological Aspects of Counseling Adults (Cross-listed as SOC 5395)

See SOC 5395 for course information.

5397 Methods in Aging Research (Cross-listed as SOC 5397 and SWO 5397)

See SWO 5397 for course information.

5V50 Internship-Gerontology

3 to 6 sem. hrs.

Supervised experience in an applied gerontology context. Intern placement will be directly related to the student's specialized area. Although off-campus internship sites are used, control of the program remains with the director of the gerontology program.

5V70 Special Topics in Gerontology

1 to 6 sem. hrs.

Prerequisite(s): Consent of instructor.

Course for students who wish to study with a professor in an area of gerontology not covered by a formal course. Students will contract with professor regarding study and number of credit hours. Course may be repeated for credit not to exceed a total of 9 maximum degree hours provided topic is different.

5V99 Thesis**1 to 6 sem. hrs.**

Prerequisite(s): Graduate student in gerontology.

GRADUATE (GRD)**6102 Interdisciplinary Scholarship**

Prerequisite(s): Doctoral standing.

A critical and comparative examination of the paradigms and research methods that define the various disciplines in the humanities, social sciences, and sciences.

GREEK (GKB)**4308 Greek Prose Composition (Cross-listed as GKC 4308)**

See GKC 4308 for course information.

5317 Seminar in New Testament Greek (Cross-listed as REL 5317)

See REL 5317 for course information.

GREEK (GKC)**4301 Readings from Greek Literature**

Prerequisite(s): Consent of instructor.

Readings from Greek authors including either Classical authors or portions of the New Testament, and related background texts. With content changed, this course may be repeated up to a total of nine semester hours.

4307 Readings in Attic Oratory

Prerequisite(s): GKC 2310 and 2320.

Selections from representative Greek orators, such as Antiphon, Andocides, Lysias, Isocrates and Isaeus.

4308 Greek Prose Composition (Cross-listed as GKB 4308)

Prerequisite(s): GKC 2310 and 2320, or GKB 2310 and 2320.

Translation of English text into classical Greek.

4309 The Gods of the Greeks

Prerequisite(s): GKC 2310 and 2320 or consent of instructor; and upper-level standing.

Selected readings in Greek from writings (e.g., Hesiod's Theogony and the Homeric Hymns) dealing with the gods of the Greeks.

4310 Stoics and Epicureans: Reading the Ancient Sources

Prerequisite(s): GKC 2320 or consent of instructor.

Selected readings in Greek dealing with the Stoic and Epicurean philosophers and their respective philosophical systems.

5321 Greek Grammar for Reading Knowledge

Intensive study of Greek inflection and syntax. Helps fulfill graduate language proficiency requirement.

5322 Greek Prose for Reading Knowledge

Prerequisite(s): GKC 5321.

Readings from Greek prose authors; review of syntax and inflection. Helps fulfill graduate language proficiency requirement.

HEALTH EDUCATION (HED)**4321 Human Sexuality**

Prerequisite(s): Upper-level standing.

A health education course in which basic concepts of human sexuality are analyzed and discussed. The course is designed to help students better understand the influences that affect the complex nature of human interaction and to provide accurate information needed to help develop responsible decision making skills.

4327 Dying and Death Education

Prerequisite(s): Upper-level standing.

A program of death education designed to help people to develop constructive attitudes, values, and practices. Dynamics of later life and the aging process with special emphasis on health will also be included.

4331 Intervention Design in Health Education

Prerequisite(s): HED 2331 and 3331.

Theories and methods used to design interventions in health education and health promotion. A special emphasis is focused on health behaviors and life-style changes.

4340 International Health Education

Prerequisite(s): Consent of instructor.

Overviews global health issues and the role of health education among medically underserved populations worldwide. Course is designed for field-based application in international or local immigrant/refugee settings. Instructor approval required.

4341 Cross-Cultural Health Communication

Prerequisite(s): Consent of instructor.

Overviews cross-cultural communication concepts/strategies used in health education to assess health needs and communicate health information. Designed for field-based international or local culture-specific settings. Instructor approval required.

4355 Human Diseases

Prerequisite(s): A minimum grade of C in HED 3350.

Basic principles of pathophysiology and mechanism of diseases affecting the human body, including basic principles of epidemiology with emphasis on the causation and effects of disease on human populations.

5315 Foundations of Health Education

Historical and philosophical foundations of health education focusing on the principles of the discipline and preparation for service as a professional. Consideration of theoretical models and health, health education, professional ethical issues and future directions.

5329 Current Health Issues

Current health issues and directed study to provide appropriate graduate-level experience in health-content areas.

5334 Community Health Education

Function, organization and coordination of public, private, and voluntary health agencies.

5337 Health Concepts in Epidemiology

Descriptive and analytical epidemiological methods in the investigation of diseases of contemporary health interest.

5340 Therapeutics for Allied Health Professionals

Prerequisite(s): Graduate standing.

A survey of the various therapeutic modalities in the clinical practice of medicine. Designed for students pursuing careers in health education, health/fitness, gerontology, psychology and other allied health fields.

5350 Assessment and Planning in Health Education

Provides in-depth focus on needs assessment and program planning in health education. Overviews assessment and planning models and methods. Focuses on assessment instrument development and validation, assessment analysis and interpretation, program planning, and grant writing.

5360 Evaluation in Health Education

Prerequisite(s): HED 5350.

Assessment & Planning in Health Education. Focuses on program evaluation and measurement concepts in health education and their practical application.

5377 Principles and Philosophy in Health, Human Performance and Recreation

Bases of principles, the evolution of principles and philosophies, and the interpretation and application of principles to program development and conduct.

5378 Administration of Health Education

Proficiency in the development and management of fiscal resources and human resources. Students will also learn how to exercise organizational leadership, how to obtain acceptance and support for health education programs. Students will be exposed to grant management, procedures for requests for proposals, and request for applications.

5379 Research Methods in Health, Human Performance, and Recreation (Cross-listed as HP 5379 and RLS 5379)

See HP 5379 for course information.

5V70 Special Problems in Health, Human Performance, and Recreation (Cross-listed as HP 5V70 and RLS 5V70) **1 to 6 sem. hrs.**

See HP 5V70 for course information.

5V74 Professional Literature Seminar in Health, Human Performance and Recreation (Cross-listed as HP 5V74 and RLS 5V74) **1 to 6 sem. hrs.**

See HP 5V74 for course information.

5V90 Internship (Cross-listed as HP 5V90 and RLS 5V90) **1 to 6 sem. hrs.**

See HP 5V90 for course information.

5V94 Practicum in HHPR (Cross-listed as HP 5V94 and RLS 5V94) **1 to 3 sem. hrs.**

See HP 5V94 for course information.

5V99 Thesis (Cross-listed as HP 5V99 and RLS 5V99) **1 to 6 sem. hrs.**

See HP 5V99 for course information.

HEALTHCARE POLICY AND ADMINISTRATION (HPA)

5120 Principles and Methods of Healthcare Delivery System Research

Prerequisite(s): HPA 5310.

This course will prepare students for selection by a leading healthcare organization for a paid six-seven month internship. Students will be provided guidance to help them successfully apply MBA core concepts in the dynamic healthcare industry environment. Students will also be afforded the opportunity to participate in an American College of Healthcare Executives (ACHE) competition with other university students and attend the annual ACHE educational conference in Chicago.

5121 Current Issues in Healthcare Administration

Prerequisite(s): HPA 5V90.

Current Issues in Healthcare Administration is designed to expose students to major US healthcare initiatives through a series of seminars led by leading healthcare executives. The Healthcare Administrative Residency will be a focus of discussion with students using site-specific information to evaluate health system strategies.

5126 Public Health Issues for Healthcare Executives

Prerequisite(s): HPA 5310.

A non-statistical introduction to the concepts and processes of public health most directly applicable to the work of a hospital executive. Discussions will be of case studies with selected instances of hospitals being directly involved in public health issues. Interdisciplinary case-study readings and discussions are supplemented by invited speakers and on-line demonstrations.

5310 Healthcare Administration

Prerequisite(s): Admission to MBA program.

A survey of the United States healthcare system, designed for MBA students pursuing careers in healthcare administration. Students will gain a basic understanding of the various healthcare models in the United States, their organization financing, executive management, and oversight. They will also be challenged by leading healthcare executives in a series of seminars that focus on current issues in the healthcare industry.

5330 Healthcare Law and Ethics

Prerequisite(s): Admission to MBA program.

A study of the legal and regulatory environment related to healthcare law, including an introduction to the legal system, tort law, and liability of healthcare institutions for administrators or executives. Covers additional reimbursement programs, medical records, and confidentiality relevant topics such as fraud, antitrust, consent, federal reimbursement programs, medical records, and confidentiality with an analysis of relevant case law. It will also help students prepare to enter their internship with the ethical and legal knowledge necessary to perform safely in an active healthcare organization.

5350 Health Economics (Cross-listed as ECO 5350)

See ECO 5350 for course information.

5367 Managerial Epidemiology (Cross-listed as STA 5367)

This course presents the basic principles of epidemiology with particular emphasis on applications in healthcare management. Topics include specific tools of epidemiology used for purposes of planning, monitoring, and evaluating population health. These include identification and of disease, measures of incidence and prevalence, study designs, confidence intervals, p-values, statistical interaction, causal inference, and survival analysis. Methods for managing the health of populations using an understanding of the factors that influence population health are discussed. Strategies that health care organizations and systems can use to control these factors are also considered.

5380 Healthcare Finance (Cross-listed as FIN 5380)

Prerequisite(s): FIN 5161.

This course extends financial principles to healthcare markets, including accounting statements for healthcare institutions as sources of information, and analysis of third party payment systems as sources of funds. Decision making tools through spreadsheet analysis is emphasized.

5395 U.S. Healthcare Directions

Prerequisite(s): HPA 5V90.

U.S. Healthcare Directions is the capstone course for the MBA Healthcare Administration Specialization. Its focus is to amalgamate concepts students were taught in both the didactic and residency elements of the program. Special focus will be given to exposing students to national healthcare policy issues.

5V90 Healthcare Administrative Internship

Prerequisite(s): Admission to MBA program; HPA 5120 and 5310.

Students will be afforded the opportunity for selection by a leading United States healthcare organization for a paid six-seven month internship. Under the guidance of a practicing healthcare executive preceptor, students will apply knowledge gained in their MBA core studies and begin work on a major paper which will contribute to the body of knowledge for health systems.

HEBREW (HEB)**5309 Selected Documents from the Hebrew Scriptures (Cross-listed as REL 5309)**

Prerequisite(s): HEB 3301; or equivalent.

Exegesis of selected portions of the Hebrew scriptures with careful attention given to grammar, syntax, history, and theology. The course may be taken up to three times when content differs.

HISTORY (HIS)**4305 Modern China (Cross-listed as AST 4305)**

Prerequisite(s): Nine semester hours of history or consent of instructor.

A history of China from 1700 to the present that considers cultural, economic, literary, political, social, and religious developments. Emphasis will be given to the late imperial state, the Chinese heritage, decline, conflict with the West, revolution, and modernization.

4312 Modern Middle East History

Prerequisite(s): Upper-level standing.

Political, religious, intellectual and social transformations in the Middle East during the nineteenth and twentieth centuries.

4313 War and Peace in the Middle East

Prerequisite(s): Upper-level standing.

The interaction of policy, military force, and society in the waging of war and the quest for peace and security in the Middle East.

4322 Ancient Greece

Prerequisite(s): Nine semester hours of history or consent of instructor.

Culture and institutions of Archaic and Classical Greece to 323 B.C.

4324 Ancient Rome

Prerequisite(s): Nine semester hours of history or consent of instructor.

Roman Republic and the rise and fall of the Empire to 565 A.D.

4326 Early Medieval Europe, c. 300-1000

Prerequisite(s): Nine semester hours of history or consent of the instructor.

Emergence of medieval civilization through the blending of Roman, Christian, and Germanic institutions, customs, and beliefs.

4327 High Middle Ages, c. 1000-1450

Prerequisite(s): Nine semester hours of history or consent of instructor.

A study of the flowering of medieval civilization, with emphasis on the medieval church and the origins of the modern state.

4328 Medieval Britain

Prerequisite(s): Upper-level standing and nine semester hours of history; or consent of instructor.

Medieval British history, emphasizing the development of parliament and the common law; the medieval church in the British Isles; the social impact of warfare; the demographic impact of famine and plague in England and Britain.

4329 The Renaissance and Reformation

Prerequisite(s): Nine semester hours of history or consent of instructor.

The political, economic, intellectual, artistic, and religious upheavals in Europe from the thirteenth through the sixteenth centuries and the resulting social, political, religious, and cultural changes.

4331 European Expansion, 1400-1800

Prerequisite(s): Nine semester hours of history or consent of instructor.

The development and maintenance of permanent contacts by Europeans with other peoples and cultures around the world between the late Middle Ages and the turn of the 19th century.

4332 Early Modern Europe

Prerequisite(s): Nine semester hours of history or consent of instructor.

A history of Europe from the age of absolutism to the enlightenment. Emphasis will be upon the major political, economic, social, cultural, scientific, and intellectual developments of the seventeenth and eighteenth centuries.

4333 French Revolution and Napoleon

Prerequisite(s): Nine semester hours of history or consent of instructor.

Background and history of the French Revolution; relatively brief consideration of the effects of the Revolution and Napoleon upon Europe.

4336 Europe since World War I

Prerequisite(s): Nine semester hours of history or consent of instructor.

Problems of peace making and international organization; rise of Fascism and Communism; background and history of World War II.

4337 Europe from 1815 to 1914

Prerequisite(s): Nine semester hours of history or consent of instructor.

Political, social, and economic development of the European nations from the Congress of Vienna to the outbreak of the First World War; the rise of liberalism and growth of nationalism; imperialism and the development of international rivalry.

4338 Cultural and Intellectual History of Europe through the Seventeenth Century

Prerequisite(s): Nine semester hours of history or consent of instructor.

History of ideas and their social and economic background from Classical Greece through the Baroque period. Course includes Greek and Roman philosophy, Early Christianity and Scholasticism, the Renaissance, the Reformation, the Scientific Revolution, and the idea of a mechanistic universe. Considerable emphasis on literature; some attention to art and music.

4339 Cultural and Intellectual History of Modern Europe

History of ideas and their social and economic background from the Enlightenment to the present. Course includes study of Enlightenment philosophy (Reason, Nature, God, and Man), Romanticism, Democratic theory and Marxism, Idealism, Darwinism, Fascism, and Existentialism. Considerable emphasis on literature; some attention to art and music.

4340 Special Topics in History (Cross-listed as AMS 4339)

Prerequisite(s): Nine semester hours of history or consent of instructor.

Study in a specialized area of history not covered by regular course offerings. May be repeated once for credit provided topic is different.

4341 Tudor-Stuart Britain

Prerequisite(s): Nine semester hours of history or consent of instructor; and upper-level standing.

The history of Britain under the Tudor and Stuart dynasties.

4343 France since 1815

Prerequisite(s): Nine semester hours of history or consent of instructor.

Major topics in French history from Waterloo to the present day, including the Bourbon Restoration, the revolutions of 1830 and 1848, the Second Empire, republicanism, colonialism, the world wars, and Gaullism.

4345 Britain in the Nineteenth Century

Prerequisite(s): Upper-level standing and nine semester hours of history; or consent of instructor.

The political, social, and economic history of Britain from the end of the Napoleonic War to the beginning of the First World War.

4346 Britain in the Twentieth Century

Prerequisite(s): Upper-level standing and nine semester hours of history; or consent of instructor.

The political, social, and economic history of Britain from the beginning of the First World War to the end of the first Blair government.

4350 The History of Gender in Latin America (Cross-listed as LAS 4351)

Prerequisite(s): Upper-level standing, and nine semester hours of history; or consent of instructor.

The history of the construction of gender and gender relations from pre-Columbian societies to contemporary Latin America. Special emphasis will be given to the creation of archetypes and the contrast between legal codes and realities across time, race, class and regional divides.

4357 Inter-American Relations

Prerequisite(s): Nine semester hours of history or consent of instructor.

A history of the evolution of Inter-American relations from colonization to the contemporary development of regional economic blocs. Topics will include relations among the American colonies, efforts at unification after independence, the expanding role of the United States in hemispheric relations and the Latin-American reaction, and the evolution of regionalism in the hemisphere.

4360 Religion and the Body Politic (Cross-listed as CHS 4360, PSC 4360, and REL 4360)

See CHS 4360 for course information.

4362 American Colonial History (Cross-listed as AMS 4362)

Prerequisite(s): Nine semester hours of history or consent of instructor.

The settlement, growth, and development of Anglo-American colonies in North America. Topics include models of colonization, the development of American individualism, the creating of Atlantic trading systems, the establishment of colonial, political elites and hierarchies, and the social circumstances of women, blacks, and Indians.

4363 American Revolution and Constitution (Cross-listed as AMS 4363)

Prerequisite(s): Nine semester hours of history or consent of instructor.

The creation of an American nation out of thirteen colonies. Topics include the social,

economic, political, and ideological roots of the colonists' resistance to imperial power, the decisions for revolution and independence, the fighting of the Revolutionary War, the rise and fall of the Confederation, and the drafting and ratification of the Constitution.

4365 The Early Republic, 1789-1860 (Cross-listed as AMS 4365)

Prerequisite(s): Nine semester hours of history or consent of instructor.

An overview of the challenges related to creating the new nation of the United States including political, diplomatic, social, economic, and cultural issues and controversies.

4368 Civil War and Reconstruction (Cross-listed as AMS 4368)

Prerequisite(s): Nine semester hours of history or consent of instructor.

Causes, military operations, and aftermath of the American Civil War.

4369 Religion in America, 1877-Present (Cross-listed as AMS 4369)

Prerequisite(s): 9 hours of history or consent of instructor.

Religion in America from the end of Reconstruction to the present. Special attention devoted to religion's intersection with culture and politics and to the growth of religious pluralism in America.

4371 United States, 1877-1920 (Cross-listed as AMS 4371)

Prerequisite(s): Nine semester hours of history or consent of instructor.

Major economic, social, and political developments in the United States within the prescribed chronological limits, with secondary emphasis on the rise of the United States as a world power and its involvement in World War I. Primary emphasis given to industrialization, the farmer revolt, the Progressive Movement, and the ramifications of these events in politics and society.

4374 United States since 1920 (Cross-listed as AMS 4374)

Prerequisite(s): Nine semester hours of history or consent of instructor.

Continuation of HIS 4371 with emphasis on the post-Progressive decade, the Great Depression, the New Deal, and domestic developments since the New Deal. Of secondary emphasis is the coming of World War II and the consequent rise and development of the Cold War.

4375 The American Civil Rights Movement (Cross-listed as AMS 4377)

Prerequisite(s): Nine semester hours of history or consent of instructor.

The origins, major events, and legacy of the struggle to gain full equality for African Americans in the century following the American Civil War. Emphasis on the philosophies and strategies employed to realize full citizenship rights for blacks, individual and institutional leadership, the participation of women, the role of religion, and the impact of this social justice movement on the South, the United States, and the world. (Graduate students may not receive credit for both HIS 4375 and HIS 5375.)

4376 Eastern Perspectives on Church and State (Cross-listed as CHS 4376)

See CHS 4376 for course information.

4378 History of the American Woman Since 1865 (Cross-listed as AMS 4373)

A social, political, and economic survey of women in the United States from the end of the Civil War to the present, emphasizing the women's movement and its influence on American society.

4380 The American West (Cross-listed as AMS 4382)

Prerequisite(s): Nine semester hours of history or consent of instructor.

The frontier in American history from early colonial times to the end of the nineteenth century, with emphasis on the significance of the frontier in American history and historiography.

4383 History of the South (Cross-listed as AMS 4383)

Prerequisite(s): Nine semester hours of history or consent of instructor.

Southern culture with three topics in the ante-bellum period and three topics in the post-bellum period.

4384 American Indian History (Cross-listed as AMS 4384)

Prerequisite(s): Nine semester hours of history or consent of instructor.

History of American Indians in the area known as the continental United States from the arrival of the first Europeans to the present day.

4386 The City in American History (Cross-listed as AMS 4386)

Emergence, expansion, and impact of urban growth in America from colonial times to the present. Emphasis given to the mechanics of city building, the social, economic, political, and cultural dimensions of urban development and the changing image of the city in the minds of the American people.

4388 American Environmental History (Cross-listed as AMS 4388)

Prerequisite(s): Nine semester hours of history or consent of instructor.

Investigation of the physical, social, cultural, and economic relationships between humans and their environment in America from precontact to the present.

4392 American Foreign Relations since 1919 (Cross-listed as AMS 4392)

Prerequisite(s): Nine semester hours or consent of instructor.

Role of the United States as a great power, with emphasis upon the changing attitudes toward world affairs.

4395 History of American Thought, 1630-1859 (Cross-listed as AMS 4395)

Prerequisite(s): Nine semester hours or consent of instructor.

Enduring beliefs about and attitudes toward the world and themselves held by Americans. Emphasis on patterns of beliefs as bases for assurance and commitment. From Puritans through transcendentalists.

4396 History of American Thought, 1859 to Present (Cross-listed as AMS 4396)

Prerequisite(s): Nine semester hours or consent of instructor.

Beliefs Americans have relied on to define and comprehend the world and themselves. Emphasis on what Americans needed and were able to believe in their search for assurance from the naturalism of the Gilded Age to the personal experiential quest of the present.

5320 Seminar in European History

May be taken up to three times for credit on the master's degree provided different topics are examined.

5330 Nationalism, Decolonization and Memory: France and the Algerian War, 1954-1962

France's struggle to retain control of her Algerian colony killed thousands and left deep divisions in the French and Algerian populations, which linger to the present day. The war brought down a French government; provoked bitter debates over military tactics, terrorism and torture; led to a military mutiny against the French republic; and saw the forced resettlement of nearly a million people. The seminar uses the work of historians, novelists and filmmakers, as well as the memories of participants, to study how these events are remembered and interpreted in France and Algeria today.

5332 History and Memory: France and the Second World War

Following a decade of depression, political instability, and appeasement, France suffered a catastrophic defeat by Nazi Germany in the spring of 1940. During the four years which followed, French people faced acceptance of a German occupation, support for a collaborationist French regime in Vichy, hope for liberation by the Allies and De Gaulle's Free French forces, or adherence to the internal armed Resistance movement, among other options. This seminar focuses on historians' interpretations of the events of those years as well as their conflicted legacy in French politics, film, fiction, journalism and judicial proceedings.

5338 Seminar on Church and State in Modern Europe (Cross-listed as CHS 5338, PHI 5338, and REL 5338)

See CHS 5338 for course information.

5339 Seminar on Church and State in the United States (Cross-listed as CHS 5339, PSC 5339, and REL 5339)

See CHS 5339 for course information.

5348 Independent Study in European History

Prerequisite(s): Graduate standing and consent of instructor.

A tutorial course for M.A. students in history to supplement other course requirements after demonstration of proficiency in 4000-level courses in the department. The course is designed for intensive study of a period or topic in European history. The student and professor in the student's field of interest will jointly develop a study program. No student may take more than six hours in independent study during his or her master's degree program and no more than three hours per semester.

5350 Seminar in Latin American History

Emphasizes critical reading skills using topics and literature related to Latin American history. May be taken up to two times for credit toward the master's degree provided different topics are examined.

5360 Seminar in United States History (Cross-listed as AMS 5360)

May be taken up to three times for credit to the master's degree provided different topics are examined.

5361 Seminar on Religion and Politics in America (Cross-listed as CHS 5361, PSC 5361, and REL 5361)

See CHS 5361 for course information.

5362 Women's Suffrage Movement (Cross-listed as AMS 5362)

A study of the Women's Suffrage Movement in the United States using primary source material and resulting in a scholarly paper.

5365 Seminar in Public History (Cross-listed as AMS 5365)

Field of public history, with emphasis on practical applications of historical methodology and the work of historians outside academia.

5367 Seminar in Oral History (Cross-listed as AMS 5367)

Literature and methods of recent United States oral history, with emphasis on the philosophy behind the oral history movement and the personal involvement of the student in the gathering of oral memoirs.

5368 Vietnam War (Cross-listed as AMS 5368)

An exploration of the role of the United States role in the Vietnam War using primary sources and resulting in a scholarly paper.

5370 Historical Research and Writing (Cross-listed as AMS 5370)

Historical methodology and writing designed primarily for graduate students and history majors who are planning to do graduate work. The student will be expected to complete satisfactorily an original research project.

5371 Religion in the American South (Cross-listed as AMS 5371)

Religion in the American South from the colonial period to the present, with emphasis on readings and primary research.

5372 Church and State During the Reformation Era (Cross-listed as CHS 5372 and REL 5372)

See CHS 5372 for course information.

5375 The Civil Rights Movement (Cross-listed as AMS 5375)

Prerequisite(s): Graduate standing.

Seminar focusing on the origins, leadership, development, and legacy of the campaign to gain full equality for African Americans in the century following the American Civil War. Emphasis on the strategies employed to realize full citizenship rights for blacks, the role of religion, the participation of women, and the impact of this social justice movement on the South, the nation, and the world.

5388 Independent Study in American History

Prerequisite(s): Graduate standing and consent of instructor.

A tutorial course for M.A. students in history to supplement other course requirements after demonstration of proficiency in 4000-level courses in the department. The course is designed for intensive study of a period or topic in American history. The student and professor in the student's field of interest will jointly develop a study program. No student may take more than six hours in independent study during his master's degree program and no more than three hours per semester.

5390 Archival Internship in History

Under the direction of the staff of the Texas Collection, calendaring, indexing, and abstracting selections of papers. The internship may be repeated once.

5V99 Thesis**1 to 6 sem. hrs.****HUMAN PERFORMANCE (HP)****5327 Financial Management in Sport**

Income sources available to sport organizations such as tax support, municipal and corporate bonds, ticket sales, concessions, fund raising, sponsorship, licensing, and PSLs.

5328 Physiology of Exercise I: Neuromuscular Aspects

Neuromuscular physiology, its relationship to exercise, muscle physiology, energy production, and nerve transmission. (Laboratory fee required)

5330 Physiology of Exercise II: Cardiopulmonary Aspects

Circulatory-respiratory physiology, its relationship to exercise, emphasizing oxygen uptake, stress testing, and exercise prescription. (Laboratory fee required.)

5331 Laboratory Skills in Exercise Physiology

Laboratory experience with tests and measures commonly employed in human performance research laboratories. The selected lab tests are designed not only to reinforce the basic principles learned in the lecture courses but also to teach the basic principles and skills of measurement and evaluation in the field of exercise physiology. Practical experiences include cardiovascular tests, ECG, blood analysis techniques, body composition, electromyography, and respiratory tests. (Laboratory fee required.)

5332 Prevention and Rehabilitation of Leisure-Related Sport Injuries

Nutritional and physiological principles in the prevention of and the rehabilitation of leisure-sport injuries, including cardiac rehabilitation.

5333 Exercise Testing and Prescription

Six semester hours of graduate exercise physiology. Exercise testing and prescription that emphasizes the necessary preparation for certification by the American College of Sports Medicine. (Laboratory fee required.)

5334 Pedagogy & Physical Education

In this course students develop an understanding of the tools of inquiry of physical education/coaching; the ability to design, deliver and evaluate a variety of instructional strategies and processes

that incorporate learning resources, materials, technologies, and state and national standards appropriate to physical education/coaching; the ability to assess student learning in physical education/coaching; and the ability to apply this knowledge, skills, and attitudes to real life situations and experiences.

5335 Sport Pedagogy

This course examines the development and application of the research conducted in physical education and coaching settings.

5336 Sport Marketing

A study of sport marketing plans utilizing the concepts of product, price, public relations, promotion, sales and advertising.

5338 Public Relations in Sport

Aspects of external and internal communication in sport pertaining to community, customer, employee, and media relations.

5340 Advanced Biochemistry in Exercise Science

Prerequisite(s): Graduate standing.

An advanced overview of the role of exercise and training on metabolic pathways, energy production/regulation, signaling, muscle excitation-contraction, metabolism and adaptation focusing on how various biochemical markers can be assessed at rest, during, and following exercise using various biochemical assays and techniques. (Laboratory fee required.)

5352 Advanced Principles of Exercise and Sport Nutrition

Prerequisite(s): Graduate standing.

The advanced study of the interrelationships between nutrition and health. Particular attention will be given to the role nutrition plays as a means to enhance health and performance in sport.

5354 Advanced Methods of Strength and Conditioning

Prerequisite(s): Graduate standing.

Physiological responses and adaptations associated with strength training are covered in conjunction with laboratory demonstrations and specific practical experiences. Mechanical and force/torque/work/power relationships are emphasized in laboratory demonstrations including isokinetic dynamometry, free weights, resistance machines and fundamental Olympic lifts.

5355 Power Speed Agility Quickness Training

Prerequisite(s): HP 5334.

The purpose of this course is to address physiological responses and adaptations associated with power, plyometrics, speed and agility which are covered in conjunction with laboratory demonstrations and specific practical experiences based on available scientific research. Practical mastery as well as theoretical understanding is required.

5356 Periodized Program Models of Strength Training and Conditioning

Prerequisite(s): HP 5354.

The purpose of this course is to study current scientific principles and procedures relating to periodized strength training and conditioning. Emphasis will be placed on many aspects of periodized training which include but are not limited to the background/history, concepts, variations, and application of periodization models.

5357 Advanced Methods of Exercise Programming for Individuals with Chronic Diseases and Disabilities

A study of the pathophysiology of common heart diseases and other ambulatory sensitive conditions with the concentration in design, implementation and administration of a multidimensional therapeutic exercise prescription approach.

5358 Environmental Physiology

The study of physiological regulation during exercise in stressful environments. The ability of

the body to maintain optimal health and fitness during work or exercise in the following conditions will be investigated: heat, high altitude, humidity, air pollution, cold, windchill, variations in day length, air ions and hyperbaric conditions.

5360 Differential Diagnosis and Therapeutic Intervention for the Lower Extremity and Spine

An advanced course for athletic trainers on orthopedic assessment and rehabilitation techniques for the lower extremity and lumbar spine.

5361 Differential Diagnosis and Therapeutic Intervention for the Upper Extremity and Spine

Prerequisite(s): HP 5360.

An advanced course for athletic trainers on orthopedic assessment and rehabilitation techniques for the upper extremity and thoracic/cervical spine.

5362 Orthopedic Rehabilitation and Reconditioning for Diverse Populations

Physical assessment and rehabilitation of orthopedic conditions for diverse populations including pediatric, geriatric, disabled, and cross-cultural populations as well as gender-related differences. Emphasis will be given to designing rehabilitation programs for diverse populations.

5363 Manual Therapies in Orthopedic Rehabilitation

A course for athletic trainers on advanced manual techniques in sports medicine: proprioceptive neuromuscular facilitation, joint mobilization, therapeutic massage, myofascial manipulation, muscle energy techniques, and strain/counterstrain techniques are included.

5368 Motor Skill Learning and Performance

Prerequisite(s): Graduate standing.

The study of the processes and variables that influence skill acquisition and the mechanisms which are involved in performing coordinated movements. Topics will include principles of human movement behavior, motor learning, motor programs and system dynamics.

5370 Sport Psychology

Study and application of psychological principles which influence behavior, enhance skill acquisition, and maximize sport performance of athletes, coaches, and others involved in sport.

5372 Legal Issues in HHPR and Athletics

Legal aspects of teaching, coaching, and administering physical education, recreation, and athletic programs in secondary and post-secondary education and community settings.

5373 Sport Management

The general objectives of this course are to understand the role of management in sport programs, to develop a philosophy of management, to understand various management theories, and to acquire knowledge and skills to make decisions and solve problems in sport management. These general objectives will be applied to such specific areas as human resource management, marketing, legal liability, facility management, finance, economics, and ethics.

5374 Sport in the Social Context (Cross-listed as SOC 5374)

A course that investigates sport function from an economic, political, sociological and educational perspective and studies the interaction of various social influences such as the mass media, race, gender, and group behavior on sport.

5375 Governance in Sport

Various governing agencies in sport emphasizing investigation of the legal ramifications, organizational structure, authority, membership, and influence of sport governing bodies.

5376 Facility and Event Management (Cross-listed as RLS 5376)

Practical background in all facets of managing a sports event and facility. The content includes organizational structure and staffing, financial management, risk management, operations and maintenance, crowd control and security, marketing an event, and measuring the economic of an event.

5377 Issues and Trends in Human Performance and Sport Management (Cross-listed as RLS 5377)

Investigation of current issues and trends in the fields of Human Performance and Sport Management and how these issues and trends may impact the future.

5379 Research Methods in Health, Human Performance, and Recreation (Cross-listed as HED 5379 and RLS 5379)

Developmental theory, investigation and gathering of data, statistical analysis and evaluation, and research reporting as these relate to research in health, human performance, and recreation.

5384 Biomechanics of Human Movement

Prerequisite(s): HP 4384.

Review of current research on the biomechanics of human movement. Practical experience in the methods of biomechanical research. (Laboratory fee required.)

5398 Contemporary Ethical Issues in Sport

A research seminar focusing on ethical problems in the contemporary sport industry and the theoretical models available for analyzing these problems.

5V70 Special Problems in Health, Human Performance, and Recreation (Cross-listed as HED 5V70 and RLS 5V70) 1 to 6 sem. hrs.

Opportunities for intensive, in-depth study of areas of health, human performance, or recreation of special professional interest and need to the student. Supervision and support will be given by selected resource persons. May be repeated once.

5V74 Professional Literature Seminar in Health, Human Performance and Recreation (Cross-listed as HED 5V74 and RLS 5V74) 1 to 6 sem. hrs.

Supervised readings in health, human performance, and recreation. May be repeated once.

5V75 Seminar in HHPR (Cross-listed as HED 5V75 and RLS 5V75) 1 to 3 sem. hrs.**5V90 Internship (Cross-listed as HED 5V90 and RLS 5V90) 1 to 6 sem. hrs.**

Full-time experience in an agency, corporation, or hospital for on the job training in a professional field. Minimum requirement -- 400 clock hours; and consent of advisor.

5V94 Practicum in HHPR (Cross-listed as HED 5V94 and RLS 5V94) 1 to 3 sem. hrs.

Part-time experience in an agency, corporation, or hospital for exposure to various professional areas of employment. May be taken twice. May not be taken if HHPR 5690 is taken. Minimum requirement - 200 clock hours and consent of adviser.

5V99 Thesis (Cross-listed as HED 5V99 and RLS 5V99) 1 to 6 sem. hrs.

Credit received when thesis approved. A total of six hours will be required.

INFORMATION SECURITY (ISEC)**5310 Cyber Security Human Factors: Ethics, Integrity, Practices, Policies, and Procedures**

Prerequisite(s): Graduate standing.

This course explores the areas of ethics and integrity to assure that the practices, policies, and procedures are in place in an organization to secure the firm's information.

5320 Cyber Security Technology Factors

Prerequisite(s): MIS 5310 or equivalent.

This course provides a roadmap of the paths available to organizations for deploying various security devices and tools. The course goes beyond the narrow technical view and offers a full context

for the deployment of security technologies. Six key areas of network security will be covered, with each section covering a tool that will play a part in a company's overall information assurance program.

5330 Information Assurance Planning and Management

Prerequisite(s): ISEC 5310 and 5320.

This course examines how the information security function is best managed from an organizational perspective. The class will cover a variety of topics to help students understand some of the best practices for how the security function should operate within the context of the overall organization.

5340 Cyber Warfare, Threats, Vulnerabilities and Countermeasures

Prerequisite(s): ISEC 5310 and 5320.

This course presents material relevant to understanding the various types of information security risks faced by organizations. Students are also exposed to concepts for developing a corporate security plan designed to mitigate these various information security risks and cyber attacks.

INTERNATIONAL BUSINESS (MINB)**5450 International Business**

Prerequisite(s): All MHA Core Courses.

The objective of this course is to familiarize students with the environment in which international companies operate. Students will be introduced to the special problems and complexities of operating in the global marketplace, addressing issues in the fields of accounting, economics, finance, law, marketing, organizational behavior, politics, production, and strategy.

JOURNALISM (JOU)**4325 Advanced Editing**

Prerequisite(s): JOU 2325 for journalism undergraduates.

Continued development of editing skills through exploration of advanced techniques in newspaper layout and design. Individual project required. Use of Macintosh computer to design information graphics and news pages.

4330 News Media and American Society

Prerequisite(s): Upper-level standing or consent of instructor.

Philosophical examination and evaluation of the interaction between society and news media in the United States.

4340 Writing and Editing for On-Line Media

Prerequisite(s): JOU 2303 and 2325.

Technical skills, writing and editing for web-based mass communication. Students will learn the coding language, some image manipulation and writing hypertext information for web-based mass media and public relations and apply this learning in a project.

4350 Mass Media and Popular Culture

Prerequisite(s): Upper-level standing or consent of instructor.

Examination and evaluation of the roles of the mass media in promoting popular culture, including how media practitioners are portrayed.

4359 History of Photography (Cross-listed as AMS 4359)

Prerequisite(s): Upper-level standing.

Photography since its appearance in 1839: people, ideas, and technologies that shaped the

history of photography; the cultural and artistic environments in which photographs have been taken; and the major genres of photography, including portraiture, documentary, art-photography and photojournalism.

4360 Documentary Explorations (Cross-listed as AMS 4360)

Prerequisite(s): Upper-level standing.

The theory and, selectively, the practice of written, photographed and filmed documentary, oral history, and participant-observer anthropology. Students will undertake projects involving fieldwork.

4368 Advanced Public Relations

Prerequisite(s): JOU 2303 and 3367; and upper-level standing.

Researching, planning, implementation and evaluation of public relations campaigns and programs. Includes a public relations internship.

4370 Public Relations Media Research

Prerequisite(s): JOU 3367.

Introduction to social science research methods used in public relations, emphasizing both qualitative and quantitative approaches.

4371 Public Relations Media Programming

Prerequisite(s): JOU 3367 and 4368.

Planning and production of programming for public relations events, meetings and campaigns. Students compose presentations that mix media to achieve stated public relations objectives.

4380 Law and Ethics of Journalism

Prerequisite(s): Upper-level standing or consent of instructor.

Rights and privileges of the news media and their social and legal responsibilities under the principles of common law and the constitution. Includes an overview of the American judicial system and the role of the journalist in reporting civil and criminal matters.

4398 Public Affairs Reporting

Prerequisite(s): JOU 2303.

Problems in reporting local, state, and national governmental affairs, including obligations and responsibilities of the reporter and of the media. Actual practice under field conditions.

4669 Documentary Summer Field School (Cross-listed as AMS 4669)

Prerequisite(s): Upper-level standing.

Course centers on documentary fieldwork during a residency of up to three weeks. Methodologies may include oral history, participant observation, documentary photography and documentary radio.

4V80 Radford Seminar

1 to 6 sem. hrs.

Prerequisite(s): Upper-level standing.

Advanced writing specialization in specific journalistic disciplines. May be repeated up to a total of six semester hours provided topic is different.

4V95 Special Studies

1 to 3 sem. hrs.

Prerequisite(s): JOU 2303 and upper-level standing.

Individual study with faculty guidance of some vital area in the field of communication. May be repeated once with change in content.

5310 Research Methods in Mass Communication (Cross-listed as AMS 5310)

Prerequisite(s): Graduate standing.

Intensive study of and practice in research methods used in the study of mass communication, including content analysis, survey research, experimental designs, historical and qualitative methods. Classic and current research in mass communication will be reviewed.

5320 Theory of Mass Communication (Cross-listed as AMS 5320)

Prerequisite(s): Consent of director of graduate studies.

To study the origins of, evidence for, and applications of various mass communication theories; to study the logic, problems and techniques of theory building; to study the societal implications of mass media research; to extend theoretical assumptions.

5350 Seminar in Mass Communication (Cross-listed as AMS 5350)

Prerequisite(s): JOU 5310 or AMS 5310.

Research seminar in selected areas of mass communication. May be repeated when topic changes.

5388 Master's Project

Prerequisite(s): Journalism graduate faculty approval.

Research, writing, and defense of a publication-quality journalistic series.

5389 Practicum in Journalism

Prerequisite(s): JOU 1355, 2325 or equivalent.

Practica will be satisfied at publication, public relations, television, radio, other program-approved sites, depending upon the specialization pursued by the student. If the student has at least a half-time position at a media outlet for at least one semester during the program of study, the position may count as the practicum with previous approval of the graduate director.

5V01 International Journalism Internship

1 to 12 sem. hrs.

One semester spent within the student's international area specialization and devoted to university work at a non-American institution, to employment with a U. S. or non-U.S. news organization, to independent study, or to a combination of all three; to an association with Christian mission posts, with public relations and advertising agencies, or with a wide range of foreign-based American firms. Subject to approval of the director of graduate studies.

5V90 Independent Study in Mass Communication

1 to 3 sem. hrs.

A conference course for graduate journalism students in which students work under the tutelage of a graduate faculty member. Major research project and extensive required readings chosen from an area of the student's major interest. Written report submitted for publication required. The course is designed for intensive study of a topic jointly agreed upon by the professor and graduate student and subject to the approval of the director of graduate studies.

5V99 Master's Thesis

1 to 6 sem. hrs.

Prerequisite(s): Journalism graduate faculty approval.

Writing and defense of faculty-approved Master of Arts in Journalism thesis.

LATIN (LAT)**4309 Virgil**

Prerequisite(s): LAT 2310 and 2320.

Translation from Latin into English of selections from the works of Virgil, especially the Eclogues, Georgics, and/or Aeneid.

4310 Augustus: Reading the Ancient Sources

Prerequisite(s): LAT 2310 and 2320; or consent of instructor.

Readings in Latin on the life and times of the Roman emperor Augustus.

4V01 Readings from Latin Literature

1 to 3 sem. hrs.

Prerequisite(s): Consent of instructor.

Latin authors to be read are selected to meet the needs of the student. With content changed, this course may be repeated up to a total of nine semester hours.

5321 Latin Grammar for Reading Knowledge

Intensive study of Latin inflection and syntax. Helps fulfill graduate language proficiency requirement.

5322 Latin Prose and Poetry for Reading Knowledge

Readings from Latin prose and poetic authors; review of syntax and inflection. Helps fulfill graduate language proficiency requirement.

LATIN AMERICAN STUDIES (LAS)**4350 Latin American Studies Seminar**

An interdisciplinary seminar to focus on topics related to Mexico, Argentina, Brazil, Central America, and developing Latin American nations. This course can be taken more than once since its content is different every year.

4351 The History of Gender in Latin America (Cross-listed as HIS 4350)

See HIS 4350 for course information.

4364 Traditional Music and Culture in Latin America (Cross-listed as MUS 4364)

See MUS 4364 for course information.

4390 Advanced Reading and Research in Latin American Studies

Advanced reading and research in Latin American studies. The content and methodology of this course should be approved by the Latin American Studies Committee.

MANAGEMENT (MMGT)**5162 Seminar in International Management**

Prerequisite(s): MINB 5350.

This seminar analyzes strategies and strategic responses of individual firms operating internationally. The evolution of global industries, global competition, and global strategies is emphasized throughout. Special emphasis is placed on the cultural differences between countries and their implications for international management efforts.

5425 Strategic Management

Prerequisite(s): All MHA Core Courses.

This capstone course is oriented toward the successful application of strategic management concepts and principles in the field of management and health administration. The course integrates knowledge content from across the curriculum, including economics, finance, quantitative analysis, marketing, leadership, and health systems. Primary topic areas of strategic management are formulation, implementation, and evaluation.

5460 Operations Management and Research

Prerequisite(s): HCA 5410.

This course provides an introduction to the concepts and analytic methods that are useful in understanding the management of a firm's operations. It provides basic definitions of operations management terms, and tools and techniques for analyzing operations and making operational decisions. The course emphasizes application of concepts, techniques and methodologies from the field of operations management to organizations in service industries.

5461 Advanced Strategic Corporate Management

Prerequisite(s): All MBA core courses.

Capstone course for the MBA degree. Students will apply knowledge acquired in previous coursework to real life management issues. Students will be exposed to advanced management concepts. Through simulation, students are placed in a realistic international business setting where they will run a company for two-three years in compressed time.

MANAGEMENT (MGT)**5131 Operations Strategy: Concepts and Fundamentals**

This module introduces a framework for defining a company's operating system and evaluating its operations strategy, and provides an overview of key diagnostic and analytical tools for indentifying, framing, and solving strategic operating issues.

5132 Operations Strategy: Structuring the Operating System

This module covers key tools for resolving the challenges of operational networks, setting capacity levels and allocating capacity within the network, and establishing a strategy for operational improvement, and examines the key issues that a firm faces in establishing its operations strategy.

5133 Operations Strategy: Managing Operational Focus

This module provides frameworks for decisions on how firms should approach the execution of fundamental changes in their operating systems and addresses how various processes and systems are designed and managed in a way that builds superior and rapidly improving performance. Particular attention is placed on ways to balance the competing objectives of operational focus and growth.

5136 Human Resources Management

Prerequisite(s): Admission to the Executive MBA program.

Participants learn to manage people to gain competitive advantage through issues in human resource management. A basic understanding of human resources functions is developed that enhances the ability of participants to work effectively with others and enhances their ability to understand how human resources is a fully integrated system linked to organizational performance.

5184 Negotiations: Power and Influence

Prerequisite(s): Admission to Executive MBA program.

This course focuses on the structure of the negotiation and brings in the impact of power, influence, and politics in organizations. Students will participate in class discussions, simulations, and role play, as well as being exposed to the latest research in the area of negotiation.

5186 Strategic Planning

Prerequisite(s): Admission to MBA program.

Discovery of how businesses and corporations develop their strategic plan using a framework for how companies approach customers, competitors, and employees. Throughout this course, students will seek to identify issues and problems facing companies in the development of their plans in domestic and international arenas. In addition, the various components of a strategic plan will be studied by using examples of companies that succeeded or failed.

5187 Strategy Implementation

Prerequisite(s): MGT 5186.

Insight into putting the strategic plan into action. Students will build upon the ideas discussed in MGT 5186 and will assess the effectiveness of the strategy implementation in companies recognized in domestic and international markets. In contrast, companies that have not implemented their strategies will also be assessed.

5188 Strategic Control

Prerequisite(s): MGT 5187.

Development of an understanding pertaining to companies competence in maintaining high performance, and their adaptation to the dynamics of their industries.

5191 Leading Organizational Change for High Performance

Prerequisite(s): Admission to Executive MBA program.

This course is intended to help managers and leaders better understand and diagnose behavior in organizations. They can apply this information in an ethical manner to influence positive organizational change.

5211 Leading with Integrity

Prerequisite(s): Admissions to Executive MBA Program.

This course is intended to help managers and leaders better understand the theories of leadership by utilizing leadership development tools, models of ethical decision making, and organizationally-relevant applied projects.

5284 Negotiations: Maximizing Multi-Party Outcomes

Prerequisite(s): Admission to Executive MBA program.

Enhances individual effectiveness in the workplace and marketplace through the development of negotiating skills and advanced understanding of negotiation when there are more than two parties. Emphasis is on practical application of theory through a variety of skill-building exercises. Topics include distributive and integrative bargaining tactics, leverage, framing, and cognitive biases, within a multi-party setting, and team negotiations.

5310 Management of Organizational Behavior

A study of the managerial process and human behavior in organizations. This course blends classical management approaches and modern organizational behavior and theory concepts to provide a foundation for successful managerial practice.

5320 Manufacturing and Service Operations

Examines various tools, techniques, and concepts that are linked with successful operations practices in today's firms. Manufacturing resource planning, just-in-time concepts, and synchronous manufacturing philosophies for the firm are emphasized. In addition, the critical role of quality assurance for firms in both manufacturing and service industries is evaluated. Experiential and computer-based simulation exercises are employed to sharpen students' abilities to identify and solve problems. Sharpens students' abilities to identify and solve problems.

5325 International Management

Strategies and strategic responses of individual firms operating internationally. The evolution of global industries, global competition, and global strategies is emphasized throughout. A major portion of the course is devoted to case analysis of U.S. and foreign firms.

5330 Management Decision Models

Application of analytical models and computer simulation to managerial problems in various functional areas. Topics examined include mathematical programming, network analysis, decision theory, waiting line validation, and implementation of computer simulation models.

5336 Seminar in Human Resource Management (Cross-listed as SOC 6350)

Subjects discussed are: changing equal employment opportunity laws and case rulings, recruitment, selection methods, total compensation systems, performance evaluation, and organizational justice. Emphasis throughout is on practical application of the theory for organizational effectiveness.

5337 Management of Employee Relations

Analysis of union-management relations in both private and public sectors. Subjects include negotiation techniques and strategies, discipline and discharge, discrimination, sexual harassment,

labor contract interpretation, EAP programs, safety, management rights, seniority systems, working conditions, and others. Role playing, negotiations simulation, and analysis of arbitration cases are used. Research paper required.

5340 Negotiation and Conflict Resolution

Enhances individual effectiveness in the workplace and marketplace through the development of negotiating skills and advanced understanding of negotiation and persuasion. Emphasis is on practical application of theory through a variety of skill-building exercises. Topics include distributive and integrative bargaining tactics, team and multiparty negotiations, leverage, framing, and cognitive biases.

5350 Organizational Design and Development

Fundamentals of designing/redesigning an organization. Major issues include: designing individual jobs and subunits, handling interdependencies among jobs and subunits through coordination and control techniques, dealing with resistance to change, and promoting flexibility. Creating/maintaining a high level of organizational effectiveness is the overarching theme. Students interested in general management, management consulting, and positions in organization development departments would benefit in particular from the course. (Fee)

5385 Strategic Management and Business Policy

A case problem and discussion seminar focusing on developing and sustaining a competitive advantage in the corporate sector. Concepts and theories that are explored include the resource theory of strategy, transactions costs, value chain analysis, dynamic approaches to the analysis of competition, core competencies, and transactional approaches to global advantage. Both individual and group projects are emphasized.

5630 Integrative Executive Decision Making

Prerequisite(s): Acceptance into the executive MBA program.

Integration of operational analysis with other functional areas. Computer models simulate the effects of various strategies on manufacturing plants, information flow environments, and distribution systems. The first half of the course focuses on individual skill development for use in the second half analyzing and solving core problems within the student's company.

5785 Global Strategic Management

Prerequisite(s): Admission to Executive MBA program.

The course examines the critical factors of strategic management, both economic and behavioral, that drive a company's performance. The content focuses on bringing together various business disciplines to help students develop an integrated understanding of strategy formulation, implementation, and control.

5V98 Special Studies in Management

1 to 6 sem. hrs.

This course may be taken for one to six semester hours of credit.

5V99 Thesis

1 to 6 sem. hrs.

Prerequisite(s): Consent of instructor.

MANAGEMENT INFORMATION SYSTEMS (MIS)

5151 Technical Foundations of Information Systems

Part one of this course provides an overview to examine the role of information technology (IT) in business organizations, its impacts, and potential for enhancing a firm's competitive positioning. Part two exposes students to the four underlying technical elements of IT infrastructure: hardware, software, databases, and networks. This technology overview provides students with basic literacy in technology concepts to enable effective communication with technical specialists in the business environment.

5152 Aligning IT with the Business Enterprise

Prerequisite(s): MIS 5151.

The business literature abounds with examples of information technology (IT) project failures. Most often, such failures are due to poor alignment between firms' business and IT strategies. This course examines the causes of such failures and provides a framework of best practices to insure firms' ability to maximize the value achieved from IT investments.

5153 Managing the IT Resource

Prerequisite(s): MIS 5152.

Part one of this course examines principles and practices related to effective systems development practices from the standpoint of a non-technical manager. We begin the section with a discussion of the systems development life cycle (SDLC) and augment this with a discussion of emerging systems development trends and practices as well as an examination of traditional systems development methodologies. Part two of the course examines various IT risk management and security issues.

5301 Seminar in Object-Oriented Business Programming

Students will survey object-oriented concepts currently used in the development of business applications. Emphasis will be placed on programming logic, data structures, and program analysis. (Fee)

5310 Business Telecommunication and Networking

The use of telecommunications to network and integrate various information technology platforms. Beginning with the media and hardware used in digital communications, the course moves through the ISO model to the presentation and application layers. Hands-on projects are utilized throughout the course to illustrate how various network operating systems are implemented and to provide training on the more popular platforms.

5315 NET Systems Development

Prerequisite(s): MIS 5301.

Presents current technological solutions to business information needs. The course focuses on tools available to IS professionals to develop business applications that can run on networks and client/server systems. Emphasis will be placed on "NET" development of client/server systems. (Fee)

5316 Development of Object-Oriented Business Systems

Co-requisite(s): MIS 5301.

The objective of the course is to present a total client-server approach to development. The thin-client portion of the course is directed towards browser hosted data collection and presentation using JavaScript. The course presents fundamental JavaScript control syntax, function definition and HTML form processing. The server-side concentrates on PHP for server processing with languages like PERL and C added to the course as time allows.

5317 Seminar in Java Development

Prerequisite(s): MIS 5301.

Seminar in client-side application development using the Java programming language. Topics include object-oriented design, essential language syntax, and developing user, file, and Internet interfaces for business systems to support e-commerce initiatives.

5325 Information Systems for Management

Emphasizes the importance of information and information technology in managing firms today. The case-oriented course includes topics such as information technology types and trends, the assessment and management of information systems projects, and the relationship of technology to organizational strategy, structure, controls, and effectiveness. (Fee)

5330 Global Dimensions of Information Systems

As business becomes more global in nature, information systems and technology will become

increasingly important to the successful management of business enterprises. This course will examine the international business environment and how information systems and technology can be utilized in that environment. Specific topics to be covered include international standards, problems with transnational flows of data and information, international standards, telecommunications and global connectivity, strategic planning to gain global competitive advantage, and human resources related to global information systems. (Fee)

5335 Information Systems Analysis and Design

To acquaint students with the concepts, problems, and possible solutions for all stages of the systems development life cycle. Emphasis on object-oriented analysis and design techniques. Topics include modeling with UML, the role of the IS professional in the development of successful systems, and project management. (Fee)

5340 Database Management Systems

Prerequisite(s): MIS 5335.

The use of database techniques to represent and manipulate data in the development of information systems. Includes rationale and objectives of the database approach; conceptual data modeling; logical database design; mapping logical design to the relational data model; physical design and implementation of databases; manipulating information in databases; database administration; and connecting applications to databases, including web-enabled applications.

5341 Advanced Database Management

Prerequisite(s): MIS 5340 or consent of instructor.

This course will cover advanced topics in database design and implementation, including the storage, access, and management of business information to facilitate decision-making. Topics may include advanced SQL commands, application data access using PL/SQL and/or ASP, advanced topics in database systems such as XML and data warehouses, and database administration topics. A technical presentation may be required.

5342 Business Intelligence

Business Intelligence (BI) is the discovery of patterns and relationships hidden in large volumes of data. This hands-on course is designed to provide practical analytic skills that may be applied in almost any workplace. The course explores the analytical techniques for making intelligent business decisions in data-rich organizations. A key component of the course is the use of BI software tools with techniques such as correlation analysis, data visualization, linear regression, classification, and clustering to address common problems in marketing, customer relationship management, risk management, finance, and operations.

5347 Text Analytics

Prerequisite(s): QBA 5131 or consent of instructor.

Text Analytics analyzes unstructured responses such as those from open-ended surveys, blogs, and online communities, to identify underlying themes and sentiment that are not immediately apparent. This analysis discipline has current application in market research, intelligence and security, healthcare and life science, recruiting, and legal compliance. The course gives particular attention to developing a process for using text analytics technology to yield valid and reliable results.

5355 Management of Information Systems

Prerequisite(s): Admission to MS/IS program.

Future information systems leaders focus on understanding the issues involved in managing the systems development process in organizations, the growth and assimilation of technologies, the personnel involved in the IS function, and the relationship of IS with the rest of the organization. Includes in-depth analysis of the current issues in the field of information systems. (Fee)

5365 E-Business Development

This course examines the use of Information Systems in the field of Electronic Business as it is used on the Internet, World Wide Web and associated technologies for the use of marketing, selling and distributing goods and services throughout the world. The area is changing and expanding

rapidly and this course will use student projects, readings, guest speakers and lectures to provide an overview of E-business, to explore issues related to E-business, and develop skills with a variety of web development tools and techniques.

5375 Business Process Planning

Co-requisite(s): MIS 5325 or 5355.

This course explores the history of Business Process Reengineering/Redesign, the use of BPR in today's business environment, and how BPR can enable changes inherent in moving to Enterprise Resource Planning, E-Commerce and Customer Relationship Management. The course involves students in the analysis of real business processes from case studies and local businesses. CASE tools are used to develop both "as is" and "to be" business scenarios for understanding the change process.

5385 Seminar in E-Commerce Issues

Prerequisite(s): MIS 5365.

This course will explore a variety of current topics related to e-commerce. Possible topics include taxation of e-commerce transactions, electronic funds transfers, systems assurance, risk management, e-payment options, online stock trading, and legal and ethical issues related to e-commerce.

5V95 Internship in Information Systems

1 to 6 sem. hrs.

Prerequisite(s): Consent of instructor.

Provides students with a carefully directed real-world learning experience. A project developed jointly by the sponsoring company and faculty provides experience in various IS functions and business activities.

5V98 Special Studies in Information Systems

1 to 6 sem. hrs.

Prerequisite(s): Consent of instructor.

Offered on demand for one to six semester hours of credit.

5V99 Thesis

1 to 6 sem. hrs.

Prerequisite(s): Consent of instructor.

6310 Foundations in Information Systems Research

A seminar covering key classical information systems readings and theoretical perspectives designed to help students critically think and constructively criticize research papers in the field.

6320 Quantitative Methods in Information Systems Research

This course is designed to provide doctoral level students with an introduction to the major methodological issues and techniques associated with quantitative research. Emphasis is given to the techniques that are most commonly used in information systems research.

6330 Theoretical Perspectives in Information Systems Research

A seminar designed to provide doctoral students across different disciplines a broad introduction to key management, organizational, and behavioral research issues, and challenges in topics of information technology (IT). The course is designed for both information systems (IS) and non-IS Ph.D. students.

6340 Qualitative Methods in Information Systems Research

A seminar designed to provide doctoral level students with an introduction to the major methodological issues and techniques associated with qualitative research. Emphasis is given to case research strategies, both positivist and interpretive, but the course will also discuss action research.

6350 Conducting Effective Literature reviews: A Doctoral Seminar for pre-Dissertation Students

A course to help doctoral students learn to write theory-building literature reviews. Doctoral students taking this class will read and discuss a variety of review papers published primarily in MIS quarterly, but also in several other journals from management literature.

6370 Contemporary Issues in Information Systems Research

This course aims to help doctoral students gain exposure to the latest in IS research. The emphasis will be given on the research published in the highest quality IS journals over the past year as well as research appearing in the top conferences in the past year.

6372 Seminar in Group Communication and Decision-making

This course is designed to provide the participant with a basis for developing a rich understanding concerning the nature of information systems in support of group communication and decision-making within the organization. The primary focus involves the interaction of these systems with the behavioral systems within the firm.

6374 Organization Theory and its Application in Information Systems Research

A seminar designed to acquaint students with the theories used to examine phenomena related to the introduction, adoption, use, and exploitation of information systems in organizations. The bulk of the material covered will be at the organizational level of analysis.

6398 Research Apprenticeship I

Prerequisite(s): Completion of first year of Ph.D. program.

Students are assigned to a research mentor to facilitate understanding of the research process with the goal of producing a manuscript suitable for submission to a conference proceedings or journal article.

6399 Research Apprenticeship II

Prerequisite(s): MIS 6398; completion of second year of Ph.D. program.

Students are assigned to a research mentor to facilitate understanding of the research process with the goal of producing a manuscript suitable for submission to a conference proceedings or journal article.

6V99 Dissertation**1 to 12 sem. hrs.**

Prerequisite(s): Completion of coursework and comprehensive exam.

Supervised research for the doctoral dissertation.

MARKETING (MMKT)**5171 Seminar in International Marketing**

Prerequisite(s): HCA 5315 and MINB 5350.

Explores environmental/cultural approach to international marketing and important global marketing trends, including growth/expansion of the world's big emerging markets, rapid growth of middle income market segments, and steady creation of regional market groups. Case studies are used to develop global and strategic thinking in terms of the marketing 4Ps.

5370 Advanced Marketing Practicum

Prerequisite(s): HCA 5315.

This distance learning course provides students an additional opportunity to apply more advanced marketing principles and concepts through the use of marketing case studies and a computer-assisted marketing simulation game. Emphasis will be placed on both analytical and quantitative approaches to marketing decision-making during the student's residency year.

5470 Marketing Management

Concepts and theories pertaining to marketing management. A comprehensive approach to translating the strategic plan of the organization into a functional marketing plan that can be implemented in an effective manner in order to increase the market share of the target public. Emphasis will be placed on both analytical and quantitative approaches to marketing.

MARKETING (MKT)

5111 Seminar in Marketing Administration-Planning

Prerequisite(s): Admission to MBA program.

Taught from the perspective of a mid-to upper-level marketing manager. Students will develop an understanding of marketing strategy and its role in today's complex business environment. Topics include an overview of the marketing planning process with an emphasis on target market selection and marketing plan development and the strategic aspects of marketing management.

5112 Seminar in Marketing Administration-Implementing

Prerequisite(s): MKT 5111.

Presentation of the strategies and tactics involved in a marketing program from the perspective of a mid-to upper-level marketing manager. The course content assumes a basic understanding of marketing principles while using lectures, readings, and case analyses. Product, pricing, promotion and distribution issues will be discussed with an emphasis on the interrelationships between marketing decisions. Marketing ethics and social responsibility and their importance in marketing decision-making will also be discussed.

5113 Seminar in Marketing Administration-Adapting

Prerequisite(s): MKT 5112.

This seminar will be taught from the perspective of a mid-to upper-level marketing manager using lectures, readings, and case analyses presenting a variety of topics involving the adaptation of current marketing practices in differing situations. Topics will include interfunctional relationships, international marketing, total quality management, and the assessment of marketing expenditures.

5310 Seminar in Marketing Strategy

Prerequisite(s): MKT 3305.

Role of marketing decision making in achieving corporate objectives; planning and implementing the marketing program; product research and development, distribution problems, promotional strategies, and pricing analysis. Attention will be given to the new marketing application of quantitative methods and the behavioral sciences.

5315 Seminar in Comparative Marketing

Prerequisite(s): MKT 3305.

Marketing structures, functions, and institutions in different national environments. Emphasis is placed on the manner in which different economic systems condition and shape the nature of marketing.

5325 Seminar in Marketing Research

Prerequisite(s): MKT 3305.

First-hand experience with real-life marketing research problems, including such areas as research design, sampling, experimental design, parametric and nonparametric data analysis techniques, and computer statistical programs.

5330 Marketing Communications

Prerequisite(s): BUS 5602 or equivalent.

Statistical techniques and their applicability to business decision making. Topical coverage includes multiple regression, analysis of variance, factor analysis, discriminant analysis, cluster analysis, and multidimensional scaling.

5335 Business to Business Marketing

Prerequisite(s): BUS 5602 or equivalent.

Marketing by firms to organizations rather than to households. Negotiation strategies are emphasized along with management of relationships, purchasing, distribution channels, and distribution logistics.

5340 Product Strategy

Prerequisite(s): BUS 5902 or equivalent.

New product development, management of existing products, product elimination decisions, and pricing at all stages of the life of a product. Emphasis is placed on decision making as it applies to product and pricing strategy and tactics.

5341 Theory and Practice in Customer Relationship

The understanding of systems, dependencies, variability, and interrelationships—including the ability to manage systems—is an essential element in customer relationship management (CRM). Therefore, the organization and the supply chain as interrelated systems is the starting point for this course. From that foundation, students will move into assessing measurements, the tools for analyzing an organization's current business processes and flows, and the means for integrating these into customer management initiatives. The “nuts-and-bolts” issues in the course address new customer data collection, using CRM for customer acquisition and retention, call management, segmenting the customer base, and creating a customer-driven web site. Behavioral changes as well as the impact of organizational policies on the ability to provide a satisfying customer experience will be examined.

5345 Seminar in Consumer Behavior

Prerequisite(s): MKT 5310.

The role of consumer behavior in marketing strategy is emphasized. The course builds on foundations from a variety of disciplines including psychology, sociology, cultural anthropology, economics, and semiotics.

5398 Directed Studies in Marketing

Special topics in marketing of interest for individual students.

5V95 Internship in Marketing

Prerequisite(s): Consent of instructor.

Practical marketing work under supervision in an approved commercial or industrial firm. This course may be taken for three to six semester hours of credit. Consent of major adviser required.

5V99 Thesis

Prerequisite(s): Consent of instructor.

MATHEMATICS (MTH)**4314 Abstract Algebra**

Prerequisite(s): A grade of C or above in MTH 3312 and a grade of C or above in MTH 4316, or consent of the instructor.

Fundamentals of group, ring, and field theory. Topics include permutation groups, group and ring homomorphisms, direct products of groups and rings, quotient objects, integral domains, field of quotients, polynomial rings, unique factorization domains, extension fields, and finite fields.

4322 Numerical Analysis (Cross-listed as CSI 4322)

Prerequisite(s): A grade of C or above in MTH 2321.

Numerical evaluation of derivatives and integrals, solution of algebraic and differential equations, and approximation theory.

4326 Advanced Calculus I

Prerequisite(s): A grade of C or above in MTH 3323.

Sequences and series of functions, multiple integrals, improper multiple integrals, functions of several variables, extreme value problems, and implicit function theorems.

4327 Advanced Calculus II

Prerequisite(s): A grade of C or above in MTH 4326.

Line and surface integrals, Green, Gauss, Stokes theorems with applications, Fourier series and integrals, functions defined by integrals, introduction to complex functions.

4328 Numerical Linear Algebra (Cross-listed as CSI 4328)

Prerequisite(s): A grade of C or above in MTH 2311 and 3324.

Numerical methods for solution of linear equations, eigenvalue problems, and least squares problems, including sparse matrix techniques with applications to partial equations.

4329 Theory of Functions of a Complex Variable

Prerequisite(s): A grade of C or above in MTH 2321.

Number systems: the complex plane; fractions, powers, and roots; analytic functions; elementary functions; complex integration; power series; mapping by elementary functions; calculus of residues.

5310 Advanced Abstract Algebra I

Prerequisite(s): MTH 4314 and consent of the instructor.

Finite groups, Sylow theorems, nilpotent and solvable groups, principal ideal domains, unique factorization domains, and sub rings to algebraic number fields.

5311 Advanced Abstract Algebra II

Prerequisite(s): MTH 5310.

Field theory, Galois theory, modules, finitely generated modules, principal ideal domains, homological methods, and Wedderburn-Artin theorems.

5316 Linear Algebra and Matrix Theory

Prerequisite(s): MTH 3312.

Matrix calculus, eigenvalues and eigenvectors, canonical forms, orthogonal and unitary transformations, and quadratic forms. Applications of these concepts. A course project is required and will be specified by the professor at the beginning of the course.

5323 Theory of Functions of Real Variables I

Prerequisite(s): MTH 4327.

Borel sets, measure and measurable sets, measurable functions, and the Lebesgue integral.

5324 Theory of Functions of Real Variables II

Prerequisite(s): MTH 5323.

Function spaces, abstract measure, and differentiation.

5325 Theory of Differential Equations

Prerequisite(s): MTH 3325 and 5323.

Initial value problems for ordinary differential equations: existence, uniqueness, continuous dependence, stability analysis, oscillation theory, general linear systems, phase plane analysis, limit cycles and periodic solutions. Topics of current interest in dynamical systems.

5326 Theory of Partial Differential Equations

Prerequisite(s): MTH 5324 and 5325.

Linear and quasilinear first order equations; shocks, characteristics, the Cauchy problem, elliptic, hyperbolic, and parabolic equations, maximum principles, Dirichlet problem, operators, Sobolev spaces, distributions.

5330 Topology

Prerequisite(s): Graduate standing.

Topological spaces, continuous functions, metric spaces, connectedness, compactness, separation axioms, Tychonoff theorem, fundamental group, covering spaces, metrization theorems.

5331 Algebraic Topology I

Prerequisite(s): MTH 5330.

Homology theory, simplicial complexes, topological invariance, relative homology, Eilenberg-Steenrod axioms, singular homology, CW complexes.

5332 Algebraic Topology II

Prerequisite(s): MTH 5331.

Cohomology theory, homology with coefficients, homological algebra, kunneth theorem, duality in manifolds.

5340 Differential Geometry

Prerequisite(s): MTH 4327, 5316, and 5330.

Differentiable manifolds, submanifolds, vector fields, tensor fields, integration on manifolds, Riemannian geometry.

5345 Functional Analysis

Prerequisite(s): MTH 5324.

Banach spaces, Hilbert spaces, linear operators, and spectral theory.

5350 Complex Analysis

Complex numbers, complex functions, analytic functions, linear fractional transformations, complex integration, Cauchy's formula, residues, harmonic functions, series and product expansions, gamma function, Riemann mapping theorem, Dirichlet problem, analytic continuation.

5351 Applications of Complex Analysis

Prerequisite(s): MTH 5350.

Poisson summation, Mellin transformation, zeta function of Riemann, special functions, zeta functions associated with eigen value problems, heat kernel, asymptotic expansion of the heat kernel, metamorphic structure of zeta functions, theta functions, elliptic functions.

5360 Applied Mathematics I

Prerequisite(s): Graduate standing.

Dynamical systems (discrete and continuous), linear and nonlinear systems theory, transform methods, control theory and optimization, calculus of variations, stability theory.

5361 Applied Mathematics II

Prerequisite(s): Graduate standing.

Eigenvalue theory, projections for linear equations, iteration and multilevel methods, fast Fourier Transforms, approximations of differential equations, grid adaptation and numerical stability, weak solutions and Sobolev space, wavelets.

5375 Linear Programming

Prerequisite(s): MTH 2311 and FORTRAN, or consent of instructor.

Introduction to the theory and applications of linear programming, including the simplex algorithm, duality, sensitivity programming, including the simplex algorithm, duality, sensitivity analysis, parametric linear programming, integer programming, with applications to transportation and allocation problems and game theory. A course project is required and will be specified by the professor at the beginning of the course.

5376 Nonlinear Programming

Theory and algorithms for the optimization of unconstrained problems including gradient and Quasi-Newton methods; and constrained problems to include feasible direction methods, Lagrange multipliers, and Kuhn-Tucker conditions. Students must have a knowledge of linear algebra, third-semester calculus, and FORTRAN.

5380 Statistical Methods for Research

Prerequisite(s): For graduate students from various disciplines.

Introduction to the more common statistical concepts and methods. Emphasis is placed on proper applications of statistical tools. Topics include: interval estimation, tests of hypotheses, linear regression and correlation, categorical data analysis, design of experiments and analysis of variance, and the use of computer packages.

5390 Special Problems in Mathematics

Project course for the project option in the M.S. degree.

5V91 Special Topics in Algebra for Graduates

1 to 3 sem. hrs.

May be repeated for credit with instructor's consent.

5V92 Special Topics in Analysis for Graduates

1 to 3 sem. hrs.

May be repeated for credit with instructor's consent.

5V93 Special Topics in Mathematics for Education Students

1 to 3 sem. hrs.

Prerequisite(s): Consent of departmental chair and the course instructor.

May be repeated for credit for a maximum of nine semester hours if under different topics.

5V99 Thesis

1 to 6 sem. hrs.

Credit to be given for the amount of work done. In no case will less than six semester hours be accepted.

6310 Commutative Rings and Modules

Prerequisite(s): MTH 5311.

Noetherian rings, quotient rings, primary decomposition, integral dependence and valuations, Dedekind domains, and discrete valuation rings, completions, dimension theory.

6311 Non-Commutative Rings and Modules

Prerequisite(s): MTH 6310.

Semi-simple rings and modules, radicals, chain conditions, decomposition of modules, Goldie's theorem, density and Morita theory.

6312 Abelian Group Theory

Prerequisite(s): MTH 5311.

An introduction to the fundamental theory of torsion, torsion-free, and mixed abelian groups.

6315 Homological Algebra

Prerequisite(s): MTH 5311 or consent of instructor.

Categories, chain complexes, homology and cohomology, and derived functors. Detailed examination of Ext, Tor, adjoint functors, and direct and inverse limits for categories of modules. Kunneth formula and universal coefficient theorems. Cohomology of groups.

6322 Approximation Theory

Prerequisite(s): MTH 4322 and 4328.

Approximation of real functions including polynomial and rational interpolation, orthogonal polynomials, Chebyshev approximation, the fast Fourier transform, splines, wavelets, and tensor product interpolation.

6325 Numerical Solutions of Partial Differential Equations

Prerequisite(s): MTH 4322 and 4328.

Finite difference and finite element methods for elliptic, parabolic, and hyperbolic problems in partial differential equations.

6340 Compact Lie Groups

Prerequisite(s): MTH 5310 and 5340.

Compact Lie groups, Lie algebras, representation theory, orthogonality relations, Peter Weyl theorem, structure theory, roots, Weyl character formula.

6341 Lie Algebras

Prerequisite(s): MTH 5310 and 5316.

Lie algebras, semisimple Lie algebras, root systems, conjugacy theorems, classification theorem, representation theory, Chevalley algebras.

6342 Semisimple Lie Groups

Prerequisite(s): MTH 6340 and 6341.

Structure theory for noncompact groups, induced representations, tempered representations, Langland's classification of irreducible admissible representations.

6350 Set and Model Theory

Prerequisite(s): MTH 5311.

Propositional and predicate calculus, Loewenheim-Skolem theorems, properties of ultraproducts, model completeness, Goedel's completeness/incompleteness proofs, infinitary language, axioms of set theory, ordinal and cardinals arithmetic, models of set theory and large cardinals.

6V13 Advanced Topics in Algebra**1 to 3 sem. hrs.**

Prerequisite(s): Consent of instructor.

May be repeated for credit with instructor's consent if under different topic.

6V23 Advanced Topics in Analysis**1 to 3 sem. hrs.**

Prerequisite(s): Consent of instructor.

May be repeated for credit with instructor's consent if under different topic.

6V24 Advanced Topics in Applied Mathematics**1 to 3 sem. hrs.**

Prerequisite(s): Consent of instructor.

May be repeated for credit with instructor's consent if under different topic.

6V28 Advanced Topics in Numerical Analysis**1 to 3 sem. hrs.**

Prerequisite(s): Consent of instructor.

May be repeated for credit with instructor's consent if under different topic.

6V30 Advanced Topics in Topology

Prerequisite(s): Consent of instructor.

Topology is the study of abstract mathematical spaces with the ultimate goal of finding invariants which are preserved under continuous transformation. Along with algebra and analysis, topology is one of the main areas of modern mathematics and as such every doctoral program in mathematics should have a course designed to cover the more advanced aspects of topology. This course would be taken primarily by doctoral candidates with a strong interest in topology.

6V43 Advanced Topics in Representation Theory**1 to 3 sem. hrs.**

Prerequisite(s): Consent of instructor.

May be repeated for credit with instructor's consent if under different topic.

6V99 Dissertation**1 to 12 sem. hrs.**

Supervised research for the doctoral dissertation.

MECHANICAL ENGINEERING (ME)

4330 Introduction to Robotics (Cross-listed as ELC 4330)

See ELC 4330 for course information.

4346 Introduction to Aeronautics

Prerequisite(s): Upper division admission.

Introduces the applied science of atmospheric flight. The course teaches about airplanes and how they fly from a design and application perspective. Included are topics in fluid dynamics, airfoil and wing theory, aircraft performance, stability, and aircraft design.

4347 Analysis and Design of Propulsion Systems

Prerequisite(s): ME 3321 and 3345.

Introduction to compressible flow, including flows with simple area change, heat addition, friction, and shock waves. Analysis, parametric design, and performance of ramjets, turbojets, turbofans, and turboprops. Introduction to the operating principles of major engine components. Introduction to rockets. (3-0)

4377 Solar Energy (Cross-listed as ELC 4377)

See ELC 4377 for course information.

4382 Selection of Materials and Manufacturing Processes in Design

Prerequisite(s): ME 3320 (or equivalent), ME 3322 (or equivalent), and ME 3323 (or equivalent).

Systematic approach for selection of materials and manufacturing process in design that balances performance requirements with cost of materials and manufacturing. Material properties, manufacturing processes and types of materials. Advanced computer software and case studies are used to illustrate application of principles. (3-0)

4396 Special Topics in Engineering (Cross-listed with BME 4396, EGR 4396, and ELC 4396)

See EGR 4396 for course information.

4V97 Special Projects in Engineering (Cross-listed as BME 4V97, EGR 4V97, and ELC 4V97)

1 to 6 sem. hrs.

See EGR 4V97 for course information.

5302 Engineering Analysis (Cross-listed as EGR 5302 and ELC 5302)

See ELC 5302 for course information.

5324 Advanced Dynamics

Prerequisite(s): Graduate standing in Engineering.

An advanced study of the mechanical dynamics of systems involving multiple, interconnected rigid bodies. Topics include mathematical expressions of body kinematics, various methods to derive dynamic equations of motion,

three-dimensional inertial properties, and dynamic motion constraints.

5340 Intermediate Fluid Mechanics

Prerequisite(s): ME 3321.

Introduction to vectors and tensors, deformation and stress in fluids, kinematics of fluid flows, conservation laws, Navier-Stokes equations, energy equation, introduction to computational fluid dynamics (CFD), introduction to vorticity dynamics and selected topics in compressible fluid flow.

5341 Intermediate Heat Transfer

Prerequisite(s): ME 4345 (or equivalent).

Study of conduction, convection, and radiation. Steady and transient one - and multi-dimensional heat transfer with emphasis on analytical methods, numerical techniques, and approximate solutions.

5342 Inviscid Flows

Prerequisite(s): ME 5340 or concurrent enrollment.

Introduction to the dynamics of inviscid, incompressible fluids; vector representation theorems; vorticity transport theorem; solution methods to steady and unsteady, two-dimensional, axisymmetric and three-dimensional flows; computational methods for inviscid flows; and forces and moments on bodies in two-dimensional flows.

5382 Mechanical Behavior of Polymers and Polymeric Composites

Prerequisite(s): ME 3320 or equivalent and ME 3322 or equivalent.

Elastic and viscoelastic behavior of polymers and polymeric composites, predicting long-term behavior from short-term tests using

time-temperature-superposition; relating chemical structure to mechanical properties for thermosets, thermoplastics, and semi-crystalline plastics; relating processing to mechanical properties; and predicting stiffness and strength from properties of fibers and polymeric matrices.

5383 Deformation and Fracture in Metals

Prerequisite(s): ME 3320 or equivalent and ME 3322 or equivalent.

This course introduces students to advanced theories of deformation and fracture that limit lifetimes in service of components and structures made of metals and alloys. Fracture mechanics are introduced as a tool in the life prediction of components that develop cracks before catastrophic failure. Plastic collapse, creep, fatigue, and environmental stress cracking are covered. Failure analysis methodology and tools are introduced and illustrated.

5385 Failure Analysis: Theory and Practice

Prerequisite(s): ME 3322.

Introduction to basic failure theories and their application to the analysis of component and system failure in service; methodology of systematic failure analysis of actual service failures; introduction to tools used in failure analysis; case studies used extensively for teaching and assignments.

5396 Special Topics in Engineering (Cross-listed as BME 5396, EGR 5396, and ELC 5396)

See EGR 5396 for course information.

5397 Special Topics in Engineering (Cross-listed as BME 5397, EGR 5397, and ELC 5397)

See EGR 5397 for course information.

5V99 Master's Thesis (Cross-listed as BME 5V99 and ELC 5V99)

Students completing a master's program with a thesis must complete six hours of ME 5V99.

MEDICAL HUMANITIES (MH)**4395 Bioethics (Cross-listed as REL 4395)**

See REL 4395 for course information.

MIDDLE EAST STUDIES (MES)**4378 Religion & Politics in the Middle East (Cross-listed as CHS 4378)**

See CHS 4378 for course information.

MODERN FOREIGN LANGUAGES (MFL)

4376 Asian Literature in Translation (Cross-listed as AST 4376)

See AST 4376 for course information.

MUSEUM STUDIES (MST)

5301 The Museum: History, Philosophy, Prospects

This course provides an overview of museums, the museum profession, and the field of museum studies. Students learn the defining characteristics of different types of museums, how museums have evolved over time, how museums have dealt with subjects that have proven controversial, and recent trends towards greater inclusiveness and respect for other cultures.

5304 Collections Management

Prerequisite(s): Credit or concurrent enrollment in MST 5301.

This course examines the intellectual, physical, legal, financial, social, and ethical challenges of preserving and providing access to museum collections. Through lectures, readings, hands-on activities, and field trips, students explore the theory and practice of collections management and learn how to utilize available resources for collections care in any museum regardless of size.

5309 Museum Education

Prerequisite(s): Credit or concurrent enrollment in MST 5301.

This course examines both directed/formal education and free-choice/informal learning opportunities in museums and how we effectively serve learners of all ages and learning style. An in-depth consideration of the development of programs includes assessment and needs of target audiences, presentation techniques and content selection and organization, logistics, and implementation and evaluation.

5311 Issues in Museum Administration

Prerequisite(s): Credit or concurrent enrollment in MST 5301.

This course provides an overview of museum and non-profit administration issues, including governance, working with a board of trustees, budgetary planning, fund raising, accreditation by the American Association of Museums, and museum ethics. Students gain practical experience in writing grants and preparing a conference-level presentation covering a museum administration issue.

5323 Historic Preservation

This course examines historic preservation, and the parallel development of historic house museums and historic villages, from early patriotic and volunteer-based efforts such as Mount Vernon, to the development of preservation professionals at Colonial Williamsburg and elsewhere, and ultimately to modern preservation organizations and preservation law as found at the national, state, and local levels.

5324 Archival Collections and Museums

This course examines the history of records and recordkeeping systems, the organizational structure of museums, and the role of the collector and the researcher in the creation and use of institutional and collected archives. Students develop an understanding of the preservation, care, and use of archives, particularly within the museum environment.

5327 Museum Special Topics Seminar

Seminar in which students identify subjects of particular interest within the broad field of museum study and demonstrate the rules, standards, and practices of the topic. Topics are selected on the basis of expressed interest by both students and faculty members. Maximum nine semester hours.

5328 American Material Culture

The material remains of the past provide a window into American social, cultural, and political life. Students will learn to interpret museum objects through study of the artifacts themselves through related artifacts and landscapes, and through other forms of evidence that expose their deeper meanings, including probate inventories, letters, diaries, newspapers, books, and maps.

5329 American Decorative Arts

This course examines American decorative arts from the seventeenth century to the mid-twentieth century, particularly furniture, silver, ceramics, glass, textiles, prints, and paintings, with emphasis on the perspectives of maker and user, the influence of Britain and other cultures, differences among regions, differences between urban and rural, and differences over time.

5331 Design and Management of Museum Exhibits

This course considers the public dimension of exhibit design, the needs and interests of varied audiences, different learning styles, and the best interpretive approaches. Classroom theory is combined with in-the-field application, with a particular focus on exhibit planning, teamwork and management, design elements, lighting, interpretation of objects and ideas, labels, and evaluation.

5340 Capstone: Major Issues in Museum Administration

This course is designed for the fourth semester graduate student who will soon be entering the museum job market or pursuing further graduate study. It provides students, whether they intend to pursue careers as administrators, curators, or educators with a review of the most important museum “basics,” emphasizing current and projected trends in the field.

5V40 Independent Studies in Museums**1 to 4 sem. hrs.**

Prerequisite(s): Approval of the professor and student’s graduate committee required.

Students identify an individual research project related to the student’s area of interest. Students formulate project objectives, develop working parameters, construct a project design, and demonstrate an ability to complete a project and describe project results. Maximum six semester hours.

5V60 Museum Internship**1 to 6 sem. hrs.**

Students undertake professional work in a museum or related organization and demonstrate, describe, and apply classroom theory and practices under the supervision of a departmental faculty member and representative of the host institution. Students describe their procedures and experiences in a daily journal, portfolio, and supervisor’s report.

5V98 Master’s Project in Museum Studies**1 to 6 sem. hrs.**

Prerequisite(s): MST 5301.

The Master’s Project in Museum Studies functions as the non-thesis option to fulfill the requirements for the M.A. in museum studies. The project must be a significant contribution to the profession demonstrating the same scholastic abilities required for the thesis option. The project constitutes supervised independent work by the student on an approved topic. Six semester hours required for completion of graduation requirements.

5V99 Thesis**1 to 6 sem. hrs.**

Supervised preparation of the master’s thesis, with six semester hours required for graduation.

MUSIC (MUS)**ENSEMBLE****5001 Orchestra**

Graduate enrollment in Orchestra (see MUS 0101, Undergraduate catalog, for description).

5002 A Cappella Choir

Graduate enrollment in A Cappella Choir (see MUS 0100, Undergraduate catalog, for description).

5003 Symphonic Band

Graduate enrollment in Symphonic Band (see MUS 0103, Undergraduate catalog, for description).

5004 Opera

Graduate enrollment in Opera (see MUS 0104, Undergraduate catalog, for description).

5005 Chamber Singers

Graduate enrollment in Chamber Singers (see MUS 0105, Undergraduate catalog, for description).

5006 Jazz Ensemble

Graduate enrollment in Jazz Ensemble (see MUS 0106, Undergraduate catalog, for description).

5007 Concert Choir

Graduate enrollment in Concert Choir (see MUS 0107, Undergraduate catalog, for description).

5008 Wind Ensemble

Graduate enrollment in Wind Ensemble (see MUS 0108, Undergraduate catalog, for description).

5009 Concert Band

Graduate enrollment in Concert Band (see MUS 0109, Undergraduate catalog, for description).

5020 Early Music Ensemble

Graduate enrollment in Early Music Ensemble (see MUS 0120, Undergraduate catalog, for description).

5021 Baylor University Men's Choir

Graduate enrollment in Baylor University Men's Choir (see MUS 0121, Undergraduate catalog, for description).

5022 Baylor ShowTime

Graduate enrollment in Baylor ShowTime! (see MUS 0122, Undergraduate catalog, for description).

5024 Women's Choir

Graduate enrollment in Women's Choir (see MUS 0124, Undergraduate catalog, for description).

5025 Baylor Bronze

Graduate enrollment in Baylor Bronze (see MUS 0125, Undergraduate catalog, for description).

5030 Chamber Music (Strings)

Graduate enrollment in string chamber music (see MUS 0130, Undergraduate catalog, for description).

5031 Chamber Music (Brass)

Graduate enrollment in brass chamber music (see MUS 0131, Undergraduate catalog, for description).

5032 Chamber Music (Woodwinds)

Graduate enrollment in woodwind chamber music (see MUS 0132, Undergraduate catalog, for description).

5033 Chamber Music (Percussion)

Graduate enrollment in percussion chamber music (see MUS 0133, Undergraduate catalog, for description).

5035 Piano Ensemble

Graduate enrollment in piano ensemble (see MUS 0135, Undergraduate catalog, for description).

5036 Studio Collaborative Piano

Graduate enrollment in collaborative piano (see MUS 0136, Undergraduate catalog, for description).

5037 Baylor Association of Church Musicians

Graduate enrollment in Baylor Association of Church Musicians (see MUS 1007, Undergraduate catalog, for description).

5050 Ensemble

Participation in the various ensembles of the School of Music.

OTHER MUSIC**4110 Advanced Jazz Improvisation**

Prerequisite(s): MUS 3310 or consent of instructor.

This course is an in-depth study of modern jazz improvisational techniques. May be repeated for credit.

4120 Advanced Opera Workshop

Prerequisite(s): Consent of instructor.

Advanced Opera Workshop is an intensive class for advanced singers who aspire to careers in Opera and/or Musical Theatre. In this class students receive intensive one-on-one instruction on their "audition aria package." An accompanist is assigned for the course and students coach each aria or piece of musical theatre to polish it for professional auditions. Students will also have the opportunity to obtain one-on-one help with their professional credentials, taxes as artists and other items as needed. Since one-on-one instruction is the key to the success of this class the number of students enrolled must be limited. Therefore, undergraduates who wish to take this class must receive a nomination from their Vocal Instructor prior to asking for permission from the instructor of the course. Repeatable for credit.

4150 Diction Coaching

Advanced coaching in lyric diction for upper-level students who are preparing recitals and/or auditions. May be repeated once for credit.

4203 Electronic Studio

Prerequisite(s): Junior standing or consent of instructor.

Fundamentals of tape recording, musique concrete techniques, and the synthesizer. Includes practical studio work and creative projects. One to two hours lecture/demonstration per week; two to three hours of individual work in the studio per week.

4204 Advanced Orchestration

Prerequisite(s): MUS 3306.

Study of problems in orchestration beyond the general topics addressed in MUS 3306.

4208 Jazz Theory

Prerequisite(s): MUS 1101 and 1301; and consent of instructor.

This course is an in-depth study of the harmonic and melodic basis of jazz, including the use of modes and extensions in jazz improvisation and composition, and reharmonization and analysis of performers' improvised solos. Students will develop skills in ear training and practical jazz music.

4210 Organ Methods

For prospective organ teachers: methods and materials; church and concert repertoire.

4213 Service Playing

Prerequisite(s): Organ major or consent of instructor.

Study of techniques and resources for organ playing in the context of a worship service.

4216 Opera Project I

Prerequisite(s): Audition and/or consent of instructor.

Training class for singers and choral conducting students in stage techniques.

4218 Opera Project II

Prerequisite(s): Audition and/or consent of instructor.

Training class for singers and choral-conducting students in stage techniques.

4219 Marching Band/Jazz Pedagogy

Philosophy, materials, and techniques of high school marching bands and jazz ensembles.

4220 Acting for Singers I

Prerequisite(s): Consent of instructor.

Acting for Singers I is a beginning acting course for the stage specifically designed to provide appropriate training in acting for young singers who aspire to stage careers in Opera and/or Musical Theatre. The course includes instruction in basic stage deportment for recitals and auditions and is also appropriate for students who plan to teach young vocalists in the future, particularly those called upon to teach Opera Workshop or direct an Opera Scenes Program at the University level and/or direct a Musical Production at the high-school level.

4221 Acting for Singers II

Prerequisite(s): MUS 4220.

Acting for Singers II is the second of two courses designed to provide appropriate training in acting for young singers who aspire to stage careers in Opera and/or Musical Theatre. This course will focus on the individual student rather than the larger group. Students will deal with problems specific to opera and musical theatre including acting within the time-frame of the composer, necessity of singing out to the audience at all times and connection with the conductor during performances. This course is appropriate for aspiring young artists as well as prospective teachers in the fields of vocal and choral music. Prior to taking this course a student should have taken Acting for Singers I or an equivalent.

4234 Stage Production Techniques

Materials and techniques of selecting and producing a musical stage piece.

4260 Orchestral Conducting

Prerequisite(s): MUS 3260.

Advanced study of instrumental conducting techniques and related preparation and score study, specifically applied to orchestral ensembles.

4261 Choral Conducting

Prerequisite(s): MUS 3261.

Advanced study of choral conducting techniques and related preparation and score study, specifically applied to choral ensembles.

4262 Band Conducting

Prerequisite(s): MUS 3260.

Advanced study of instrumental conducting techniques and related preparation and score study, specifically applied to bands and wind ensembles.

4301 Advanced Analysis

Prerequisite(s): MUS 3301.

Investigation of specialized topics in music analysis, with focus on a particular analytical approach or repertoire.

4304 Counterpoint

Prerequisite(s): MUS 2102 and 2302.

Principles of modal and harmonic counterpoint.

4305 Advanced Counterpoint

Prerequisite(s): MUS 4304.

A continuation of MUS 4304. Advanced work in specialized areas of counterpoint.

4307 Advanced Composition I

Prerequisite(s): MUS 3304.

Continuation of MUS 3308.

4308 Advanced Composition II

Continuation of MUS 4307. Includes a recital of original works.

4315 Advanced Piano Pedagogy and Practicum I

Comprehensive study and practical experiences of the group teaching process at the collegiate level. Lesson planning, group dynamics, materials, the electronic laboratory, and the different types of instruction are included.

4316 Advanced Piano Pedagogy and Practicum II

Prerequisite(s): MUS 4315.

Continuation of MUS 4315.

4317 Piano Pedagogy III

Prerequisite(s): MUS 3312.

Examination and evaluation of standard literature, teaching materials and music technology for the intermediate student. Exploring issues related to the piano teaching profession. Directed teaching in the Piano Laboratory Program, both individual and group lesson settings.

4319 Operatic Role Preparation

Prerequisite(s): MUS 0104; upper-level standing.

Role Preparation will cover the research into the genesis of a specific opera as well as the music of a role from that opera. Students will have the opportunity to learn operatic roles that they, and their applied voice teacher, feel are appropriate for their voices and abilities. Students will then receive musical and dramatic coaching on their roles and will present semi-staged or concert versions of their roles at the end of the semester. May be repeated once for credit.

4321 Symphonic Literature

A survey of orchestral literature.

4322 Piano Literature I

Prerequisite(s): For music majors only or consent of instructor.

Literature of keyboard instruments from early sources to the early nineteenth century.

4324 Piano Literature II

Prerequisite(s): Enrollment limited to music majors or consent of instructor.

Literature of keyboard instruments from the mid-nineteenth century to the present.

4325 Opera Literature

This course examines opera from its origins in the late sixteenth century to the present. Students will learn about opera's musical and literary conventions, its development, and how operas

reflect the musical and cultural values of their areas. The scores to be studied are coordinated with recorded and audio/visual examples, as well as with relevant readings from books and periodicals. Class discussion, presentations, essays, listening tests, and a final project are part of the course.

4326 American Folk Music (Cross-listed as AMS 4326)

Folk and tribal musics in the United States. Specific topics include: music of native Americans, oral tradition music of European immigrants, oral tradition music created in America, African and African-American music, the Latin American musical influence, and ethnomusicology as a discipline of study. Current and historical topics will be included. Students will participate in field research projects.

4327 Song Literature I

Music for solo voice from its beginnings to the present.

4329 Song Literature II

Continuation of MUS 4327.

4331 Band Literature

Literature for wind ensemble and band from early sources to the present.

4333 Percussion Literature and Pedagogy

Solo and chamber music and pedagogy for percussion instruments.

4334 String Chamber Literature

Chamber music for string instruments.

4335 Woodwind Literature

Solo and chamber music for woodwind instruments.

4336 Brass Literature and Pedagogy

Solo and chamber music and pedagogy for brass instruments.

4337 Choral Literature

Prerequisite(s): MUS 3261.

Secular and religious choral music representing style periods from the late Renaissance to the present.

4342 American Musical Theater

Important historical, cultural, musical and production moments in the century-long narrative of the American musical theatre. Specific topics may vary from year to year. The course is designed for upper-level music majors; theatre majors and other students should consult with instructors before enrolling.

4343 Organ Literature I

The organ and its literature from the earliest manuscripts and tablatures through 1750.

4344 Organ Literature II

The organ and its literature from 1750 to the present.

4345 History of Classical Music in the United States

Prerequisite(s): Upper-level standing or consent of instructor.

This course introduces both music majors and non-music majors to the often overlooked contributions of creative Americans to the field of “classical” music from the beginning of the United States’ existence to the present time.

4360 Ethnographic and Analytical Methods in Ethnomusicology (Cross-listed as ANT 4361)

Prerequisite(s): Junior standing or above.

Introduction to analytical methods, ethnography, and fieldwork techniques in ethnomusicology in order to equip students with practical tools to conduct ethnographical research and fieldwork.

4361 Traditional Music and Culture in Africa (Cross-listed as AFS 4361)

Prerequisite(s): Junior standing and above.

Analysis of specific African musical traditions within their cultural, geographical, historical, and social contexts as points of departure for analyzing and understanding broader patterns and dynamics of human activity.

4362 Traditional Music and Culture in Asia (Cross-listed with AST 4362)

Prerequisite(s): Junior standing and above.

Analysis of specific Asian musical traditions within their cultural, geographical, historical, and social contexts as points of departure for analyzing and understanding broader patterns and dynamics of human activity.

4363 Traditional Music and Culture in Europe (Cross-listed as SEES 4363)

Prerequisite(s): Junior standing and above.

Analysis of specific European musical traditions within their cultural, geographical, historical, and social contexts as points of departure for analyzing and understanding broader patterns and dynamics of human activity.

4364 Traditional Music and Culture in Latin America (Cross-listed as LAS 4364)

Prerequisite(s): Junior standing or above.

Analysis of specific Latin American musical traditions within their cultural, geographical, historical, and social contexts as points of departure for analyzing and understanding broader patterns and dynamics of human activity.

4365 Music and Identity in Texas Culture (Cross-listed as AMS 4367)

Analysis of specific Texas musical traditions within their cultural, historical, and social contexts as points of departure for analyzing broader patterns and dynamics of human activity reinforcing identity.

4366 Performance Practices in World Music

Prerequisite(s): Junior level standing and consent of instructor.

Academic approach to a variety of performance practice techniques used in traditional and urban musical genres around the world.

4V09 Advanced Electronic Studio**1 to 3 sem. hrs.**

Prerequisite(s): MUS 4203 or consent of instructor.

A continuation of MUS 4203. Material covered includes 8-track recording and mixing; voice editing, sequencing, and sampling, using MIDI; SMPTE synchronization to tape; study of electronic music literature. At least one substantial creative project will be completed. Course may be repeated for credit.

4V13 Workshop in Keyboard Music**1 to 9 sem. hrs.**

An intensive workshop on keyboard methods and materials.

5010 Academic Division Colloquium

This course is oriented to the development and practical application of the student's critical thinking process through lectures and presentations related to the academic field in music.

50R1 Special Recital

Prerequisite(s): Consent of instructor.

Presentation of a recital over and above degree requirements.

5100 Music Theory Review

Review of part writing, ear training, analysis, and keyboard procedures. Required of graduate students who show deficiencies in theory on the graduate entrance test. Does not count as degree credit.

5114 Internship in Piano Teaching I

Prerequisite(s): MUS 4315.

Teaching of children's classes, college classes, adult leisure piano, or private lessons under faculty supervision. Designed to broaden the student's prior teaching experience.

5115 Internship in Piano Teaching II

Prerequisite(s): MUS 5114.

Continuation of MUS 5114.

5120 Graduate Music History Review

A remedial course for incoming graduate students who show multiple deficiencies on the Music History diagnostic exam. All major periods will be covered, but the course will focus on the specific needs of the students enrolled. Students who pass this course may enroll for any graduate level music history course.

5130 Chamber Music (Strings)

Graduate enrollment in chamber music with strings for students in the Advanced Performers Certificate program in piano or organ.

5131 Chamber Music (Brass)

Graduate enrollment in chamber music with brass for students in the Advanced Performers Certificate program in piano or organ.

5132 Chamber Music (Woodwinds)

Graduate enrollment in chamber music with woodwinds for students in the Advanced Performers Certificate program in piano or organ.

5133 Chamber Music (Percussion)

Graduate enrollment in chamber music with percussion for students in the Advanced Performers Certificate program in piano or organ.

5136 Studio Collaborative Piano

Course only available for students in the Advanced Performance Certificate in piano or organ.

5137 Graduate Seminar in Music Education

A topical study of significant issues in Music Education. Focus of the course will vary by semester. May be repeated for up to four hours credit.

5141 Performance Document

Writing of a document to accompany the M.M. student's recital. The document will give historical background and analysis of works performed. Document must be completed before recital is given.

5150 Seminar in Vocal Performance and Pedagogy

Practicum for advanced vocalists in aspects of the singer's art, involving performance and research. May be repeated once for credit.

5151 Advanced Vocal Coaching

Prerequisite(s): Consent of instructor.

Advanced individual study of solo vocal repertoire for upper-level students preparing for recitals, contests, and auditions. May be repeated once for credit.

5152 Graduate Diction Review

A comprehensive review of the lyric diction of Italian, German and French. Required of graduate students who demonstrate deficiencies in diction on the graduate entrance examination. Does not count as degree credit.

5170 Graduate Recital

Graduate recitals consist of repertoire learned while the student is in residence for the degree. Guidelines for approval and presentation of these programs are available from the Graduate Program Director.

5171 Conducting Performance Project

Practical application of conducting skills in a full-scale concert.

5201 Pedagogy of Theory

Survey of materials and methods for teaching theory at high school and college levels.

5207 Graduate Composition I

Master's level instruction in composition in twentieth-century idioms through the creation of original pieces, supplemented by analysis and pertinent auxiliary exercises.

5208 Graduate Composition II

Continuation of MUS 5207.

5209 Graduation Composition III

Continuation of MUS 5208.

5240 Worship in the Church (Cross-listed as THEO 7290)

Prerequisite(s): MUS 3273 or consent of instructor.

A study of music in worship from biblical times to the present. Includes worship planning and leadership, and evaluation of present uses, trends and emphases.

5241 Congregational Song (Cross-listed as THEO 7291)

Prerequisite(s): MUS 3274 or consent of instructor.

The study of congregational music used in corporate worship, including hymns, choruses, and scripture songs. The course includes the historical development of hymns and the analysis of the literary, scriptural, and theological content of congregational song.

5242 Seminar in Music Ministry (Cross-listed as THEO 7292)

Administration of the church music ministry including budgeting, organizing, recruiting, office management, and working with multiple staff. The course also includes philosophy of church music ministry from a biblical, historical, and contemporary framework.

5243 Church Music Ministry

An intensive review course for students who do not have an undergraduate church music degree. Topics include children's, youth, and adult choir ministries, church music administration, and philosophy.

5244 History of American Church Music (Cross-listed as THEO 7294)

Composers, authors, movements, styles, and types of literature pertaining to church music in the United States from 1560 to the present. Emphasis will be given to current trends in American church music.

5245 Turning Points in Church Music (Cross-listed as THEO 7295)

A study of major turning points in the history of church music including analysis and application to current issues.

5246 Comparative Liturgies (Cross-listed with THEO 7296)

A study of Christian liturgies from various cultures and historical periods including historical and current material.

5247 Choral/Vocal Music Ministries in the Church (Cross-listed as THEO 7293)

A study of adult choirs, youth choirs and children's choirs, ensembles and soloists including rehearsal techniques, spiritual life of the church and community.

5252 Seminar in Vocal Collaboration I

Prerequisite(s): Undergraduate major/concentration in piano or equivalent background.

Standard opera and concert repertoire for the voice in a two-semester sequence: Semester I--Opera Arias, Italian Canzone, English Songs. Graduate pianists collaborate with fellow student vocalists in master class performances. Critique and coaching by director of collaborative piano.

5253 Seminar in Vocal Accompanying II

Prerequisite(s): MUS 5252.

Continuation of MUS 5252. Semester II: German Lied, French Chanson and Melodie.

5254 Seminar in Instrumental Collaboration I

Prerequisite(s): MUS 5252 and 5253.

A two-semester survey of the standard sonata repertoire for the following instruments: Semester I - strings. Graduate students in piano will collaborate with fellow student instrumentalists in master class performances. Critique and coaching by director of collaborative piano.

5255 Seminar in Instrumental Collaboration II

Prerequisite(s): Undergraduate major/concentration in piano or equivalent.

Continuation of MUS 5254. Semester II: woodwinds, brasses, and percussion.

5261 Violin Pedagogy and Practicum

Prerequisite(s): MUS 4314.

An in-depth exploration of the various pedagogical studies, texts, and materials for the violin, with observation sessions and supervised teaching experiences.

5262 Viola Pedagogy and Practicum

Prerequisite(s): MUS 4314.

An in-depth exploration of the various pedagogical studies, texts, and materials for the viola, with observation sessions and supervised teaching experiences.

5265 Orchestral Conducting Performance Practicum

Prerequisite(s): MUS 4260.

To provide the student a regularly mentored rehearsal and performing experience.

5266 Choral Conducting Performance Practicum

Prerequisite(s): MUS 4261.

To provide the student a regularly mentored rehearsal and performing experience.

5267 Band Conducting Performance Practicum

Prerequisite(s): MUS 4262.

To provide the student a regularly mentored rehearsal and performing experience.

5268 Cello Pedagogy and Practicum

Prerequisite(s): MUS 4314.

An in-depth exploration of the various pedagogical studies, texts, and materials for the cello, with observation sessions and supervised teaching experiences.

5269 Double Bass Pedagogy and Practicum

Prerequisite(s): MUS 4314.

An in-depth exploration of the various pedagogical studies, texts, and materials for the double bass, with observation sessions and supervised teaching experiences.

5270 Applied Conducting

Prerequisite(s): Enrollment restricted to graduate conducting majors and church music majors with conducting emphasis.

Private conducting lessons. This course is open only to conducting majors on the M.M. degree and will normally be taken in semesters when the student is not registered for the concentration conducting course or Performance Practicum.

5301 History of Music Theory

Theorists and theoretical tracts from the ancient Greeks to the present day.

5302 Analytical Techniques

A survey and application of analytical approaches and techniques currently employed in the study of music. Required of all graduate students.

5319 Seminar in Ethnomusicology

History and philosophies of ethnomusicology as illustrated in significant selected literature. Emphasis upon bibliographic and historic resources, and the conceptual issues and philosophies that have forged the discipline.

5320 Research Methods and Bibliography

Methods and application of research and bibliography. Required of all graduate students.

5321 The Middle Ages

Styles and literature of music from the ninth through the fourteenth centuries.

5322 The Renaissance

Music of the period between 1425 and 1610.

5323 The Baroque Period

Literature of music between 1580 and 1750.

5325 The Classic Period

Styles and literature of music from 1740 to 1820.

5326 The Romantic Period

Styles and literature of music from 1800 to 1910.

5327 Music Since 1945

Trends, styles, and techniques in the music of our culture.

5328 The Twentieth Century

Literature of music of our time.

5329 Seminar in Musicology

Prerequisite(s): MUS 5320.

Research techniques involving bibliographical, historical, and analytical procedures applied to a selected topic.

5330 Trends in Music Education

New music-teaching methods and instructional media, recent research, and current thought on the philosophy and psychology of music education.

5334 Introduction to Graduate Study in Music Education

An introduction to the study of music education, focused on the history and philosophy of music education in the U.S. and abroad. Included are bibliographical concepts and procedures for reading, interpreting, and summarizing research in music education.

5337 Choral Literature

Choral literature representing style periods from the late renaissance to the present with emphasis upon large works.

5355 Analysis Seminar

Intensive structural and harmonic analysis of a selected composer or period. The course may be repeated once for credit.

5V89 Special Research Problems**1 to 3 sem. hrs.**

Prerequisite(s): MUS 5320.

Advanced individual research project in the student's major field of interest under the guidance of a member of the Graduate Faculty. Subject of research to be agreed upon by the student and professor and approved by the Graduate Program Director prior to registration. The area of study may not duplicate directly any material pertaining to the thesis, nor may the study substitute for any required course. Course may be repeated, with different topic(s), for a maximum total of seven hours.

5V99 Thesis**1 to 3 sem. hrs.****NEUROSCIENCE (NSC)****4130 Laboratory in Behavioral Neuroscience (Cross-listed as PSY 4130)**

Prerequisite(s): NSC/PSY 4330 or concurrent enrollment.

Laboratory experiments illustrating methods and procedures in Behavioral Neuroscience.

4312 Behavioral Medicine (Cross-listed as MH 4312 and PSY 4312)

Prerequisite(s): NSC 1106-1306, and either PSY 2402 or MTH 1321 or consent of instructor.

Topics include the role of mind, brain, and behavior in health, disease and wellness; the history, philosophy, and current status of health care systems; physiological and behavioral analyses of stress; psychoneuroimmunology; behavioral factors in cardiovascular disease, cancer, drug abuse, and weight management.

4330 Behavioral Neuroscience (Cross-listed as PSY 4330)

Prerequisite(s): NSC 1106-1306 and PSY 1305, or consent of instructor.

A study of the structure and function of the human nervous system as related to behavior.

5311 Seminar in Memory and Cognition (Cross-listed as PSY 5311)

Prerequisite(s): Consent of instructor.

An advanced treatment of the study of human cognition. Topics to include memory, language, problem solving, intelligence, and thinking.

5318 Perception (Cross-listed as PSY 5318)

Research and theory on sensory and perceptual processes.

5319 Clinical Neuroscience - Advanced (Cross-listed as PSY 5319)

Prerequisite(s): PSY 4430 or 5330, or consent of instructor.

Neuroanatomy, brain structure-function relationships, experimental neuropsychology, and biological theories of abnormal behavior.

5320 Learning and Behavior Theory (Cross-listed as PSY 5320)

Prerequisite(s): Consent of instructor.

Methods of theories of learning and Behavioral Analysis.

5330 Neuropharmacology (Cross-listed as PSY 5330)

Introduction to pharmacology with emphasis on drugs that act on the nervous system. Absorption distribution and biotransformation of drugs. Drug receptors, site and mechanism of action.

5360 Neurophysiology (Cross-listed as PSY 5360)

Prerequisite(s): Consent of instructor.

Electrical and chemical behavior of neurons--excitable membranes, cell physiology of nerve cells, neural conduction, transmission, reception and integration. (Fee)

5430 Neuroanatomy (Cross-listed as PSY 5430)

Prerequisite(s): Consent of instructor.

Selected topics in physiological psychology, including laboratory.

5V04 Graduate Research (Cross-listed as PSY 5V04)

1 to 3 sem. hrs.

Prerequisite(s): Consent of instructor.

For research credit prior to admission to candidacy for an advanced degree. May be repeated for credit.

5V06 Individual Studies in Neuroscience

1 to 3 sem. hrs.

Individual study in areas of neuroscience not covered by formal courses. Meetings are by appointment, and the course may be repeated for credit.

5V51 Supervised Teaching (Cross-listed as PSY 5V51)

1 to 3 sem. hrs.

Current theory and practice in teaching psychology at the college level.

5V71 Selected Topics in Neuroscience

1 to 9 sem. hrs.

Advanced study in an area of neuroscience not covered by formal courses. Course may be repeated with a different topic of study.

5V96 Research Methods in Neuroscience

1 to 9 sem. hrs.

Selected laboratory methods and techniques in experimental psychology.

5V99 Thesis (Cross-listed as PSY 5V99)

1 to 3 sem. hrs.

6V99 Dissertation (Cross-listed as PSY 6V99)

1 to 12 sem. hrs.

These hours may be distributed over more than one semester.

NURSING (NUR)**4309 Parish Nursing**

Prerequisite(s): Consent of the instructor.

Basic preparation to function as a parish/congregation nurse in a faith-based health ministry. This course includes theory related to the theology of health, healing, and wholeness. Roles and functions of the parish nurse are discussed. Emphasis is placed on how to begin a parish nurse ministry including legal and ethical considerations.

5141 Professional Issues for Nurse-Midwives

The role of the nurse-midwife in contemporary society is explored. The historic, political, and economic bases of nurse-midwifery practice are examined. Students will become familiar with documents of the American College of Nurse Midwives, as well as regulations and legislation which guide, interpret, and provide a legal and ethical base for future nurse-midwifery practice.

5158 Nurse-Midwifery I: Primary Care for Advanced Practice Nurses Practicum

Prerequisite(s): NUR 5350, 5351, and 5452 and NUR 5255 or concurrent enrollment.

Clinical experiences guided by preceptors. Ongoing faculty evaluation of written assignments and periodic on-site evaluation of clinical skills and management by the primary course faculty.

5163 Advanced Assessment and Diagnostics of the Newborn/Infant Practicum

Prerequisite(s): NUR 5364.

Clinical experience in assessing the health care needs of healthy and at-risk newborns/infants and their families. Practicum focuses on assessment and evaluation of care to families with at-risk factors during all phases of the childbearing process (antenatal, intrapartum, post-partum, and neonatal periods) with an emphasis on obtaining and interpreting comprehensive assessment and diagnostic data on the high-risk fetus and newborn/infant (history taking, physical examinations and diagnostic interpretation on a variety of newborns and infants).

5207 Role of the Nurse Educator

Philosophy and history of nursing education and expectations of nursing faculty. Current issues, trends and research in nursing education are examined. Emphasis is on socialization into the role of the nurse educator as a faculty member, including rights and responsibilities in academia.

5211 Servant Leadership and Advanced Practice Nursing

Prerequisite(s): Graduate-level standing.

Application of the essential principles of servant leadership and clinical ethics in leadership situations with individuals, families, organizations, and communities of interest.

5212 Advanced Practice Nursing Roles

Prerequisite(s): Graduate-level standing.

Analysis and synthesis of the multidimensional role and responsibilities of advanced practice nursing.

5217 Budgeting and Healthcare Finance for Nursing Leadership

Analysis and application of current general accounting principles and financial management processes in budget development and control in selected nursing settings.

5231 Research Applications

Prerequisite(s): NUR 5330.

Application of research methodology. Focus on student's ability to participate in a research project, use scientific inquiry and disseminate findings. Participate with a research mentor in a scholarly endeavor.

5246 Nurse-Midwifery IV: High Risk Family

Prerequisite(s): NUR 5345.

This course focuses on application of the Nurse-Midwifery process to the care of mothers and newborns with complications. The goal of this course is to further develop the roles and responsibilities of the health care provider in caring for women and families who have high-risk situations or conditions.

5247 Nurse-Midwifery IV: High Risk Family Practicum

Prerequisite(s): NUR 5246 or concurrent enrollment.

A clinical course that focuses on application of the Nurse-Midwifery process to the care of mothers and newborns with complications. The goal of this course is to further develop the role and responsibilities of the health care provider in caring for women and families who have a high-risk situation or condition. This knowledge is continuously acquired and builds upon previous and concurrent courses. This course is specifically built upon the acquisition of information from the course NUR 5345: Nurse-Midwifery III: Childbearing Family.

5253 Role of the Advanced Practice Nurse

The role components, legal definitions, and professional interpretation of advanced practice

nursing that guide the provision of health care services to a culturally diverse population of clients across the life span is presented. Emphasis is placed on understanding the influence of opportunities and constraints on the advanced practice nurse (APN). Special consideration will be given to interdisciplinary relationships, health care outcomes, resource allocation, cost effectiveness of delivery systems, and ethical decision-making.

5255 Nurse Midwifery I: Primary Care for Advanced Practice Nurses

Prerequisite(s): NUR 5350, 5351 and 5452.

This course uses a modified self-mastery learning approach which includes on-campus classes and web-enhanced learning. Each unit of learning contains theoretical objectives that are covered in the depth needed to meet the scope of practice of the different advanced practice nursing specialty areas. Examples of learning activities include readings, lectures, seminars, guest speakers, case studies, demonstrations and return demonstrations, and multi-media aids.

5258 Advanced Family Practice I

Co-requisite(s): NUR 5355.

Prerequisite(s): NUR 5350, 5351, 5452 and current physical assessment skills.

Beginning diagnosis and treatment of common acute and chronic illnesses seen by the family nurse practitioner for selected body systems.

5259 Advanced Family Practice II

Co-requisite(s): NUR 5356.

Prerequisite(s): NUR 5258 and 5355.

Continuing diagnosis and treatment of common acute and chronic illnesses seen by the family nurse practitioner. A systematic approach to the treatment options across the lifespan will be studied for all body systems. Students are given the opportunity to progress toward increasing independence in clinical practice.

5262 Advanced Assessment and Diagnostics of the Newborn/Infant

Co-requisite(s): NUR 5163.

Prerequisite(s): NUR 5360.

The course focuses on the knowledge and skills necessary to perform comprehensive assessments and interpretation of diagnostic data on newborns/infants and their families. Systematic data collection, diagnostic reasoning, and clinical problem solving for a variety of newborns and infants will be emphasized. Content will focus on perinatal assessment, fetal assessment, gestational age assessment, neurobehavioral and developmental assessments, physical exam of newborns and infants, and the use of diagnostics such as laboratory studies, radiographs, and instrumentation/monitoring devices.

5266 Advanced Neonatal Nursing Practicum I

Co-requisite(s): NUR 5365.

Practicum focuses on developing clinical competency in the advanced practice role and in the pathophysiology, stabilization, management, and evaluation of the stable and high-risk newborn/infant. By using the processes of expert practice, consultation, collaboration, administration, and research utilization, the student will provide advanced nursing management of a caseload of hospitalized newborn/infants and their families. The experience is accomplished under the guidance of program faculty and supervision from approved preceptors (Advanced Practice Neonatal Nurses and board-certified neonatologists).

5301 Power and Politics

Concepts of power and politics in the complex organizational structure of health care administration.

5302 Principles of Learning, Instruction, and Evaluation

Prerequisite(s): Admission to the Graduate Program.

Theories of teaching, learning and evaluation related to nursing education and practice. Focus is on selected teaching and evaluation techniques, and their implementation in nursing courses within a curricular framework.

5304 Curriculum Development in Nursing

Prerequisite(s): Admission to the Graduate Program.

Analysis and application of theory and principles for planning, developing, and evaluating nursing curricula. Focus is on conceptual frameworks, which determine course organization and course content in both didactic and clinical settings.

5313 Health Care Systems, Policy, and Management

Prerequisite(s): Graduate-level standing.

Analysis of the structure, function, and management of the American health care delivery system within the context of a Judeo-Christian worldview.

5315 Nursing Case Management

Prerequisite(s): NUR 5310 and 5320; or consent of instructor.

Exploration of the role of the nurse as case manager. Includes examination of existing managed care concepts, reimbursement mechanisms, outcome assessment, and methods for quality improvement. Development of critical paths and coordination of care are discussed.

5318 Human Resource Management in Health Care Organization

The study of human resource theory and regulation with applications for nursing leadership in the dynamic health care organization of today. Issues and challenges for the nurse leader are discussed in the light of current nursing research, ethics, regulation and litigation.

5326 Nursing Leadership Residency

Prerequisite(s): All coursework except thesis hours and electives or consent of professor.

Application of the diverse processes and strategies utilized for care across the continuum by the advanced nursing leader through integrating theories, concepts, and principles in a selected health care agency.

5330 Principles and Methods of Nursing Research

Prerequisite(s): Basic statistics course.

Principles and methods of nursing research applied to problem identification, research design, data collection, measurement, data analysis, and reporting. Builds upon basic knowledge of the research process. The introduction, review of literature, and methodology chapters of a research study will be developed.

5344 Nurse-Midwifery III: Care of the Childbearing Family

Prerequisite(s): NUR 5V43.

This course focuses on application of the Nurse-Midwifery process for the care of healthy women during childbirth and the newborn.

5345 Nurse-Midwifery III: Care of the Childbearing Family Practicum

Prerequisite(s): NUR 5344 or concurrent enrollment.

This course provides students with clinical experiences to demonstrate synthesis, integration, and translation of the knowledge and skills necessary to promote health, maintain wellness, and manage common health problems in women experiencing childbirth and in the care of the essentially normal newborn. Use of information technology in the clinical practice setting is expected. The nurse-midwifery management model of care is used in the provision of care to clients.

5350 Advanced Human Pathophysiology

Pathologic deviations from normal physiology are discussed. Methods for identification and diagnosis are presented.

5351 Advanced Pharmacology

Use of advanced pharmacotherapeutics, herbals and dietary supplements for primary health care across the life span. Drugs used to treat and manage common illnesses and conditions are the

focus of the course. Content includes indication, selection, adverse effects, and client education related to use of prescribed medication. Clinical decision-making and review of laws governing prescriptive authority are also emphasized.

5355 Family Health Care Management I

Co-requisite(s): NUR 5258.

Prerequisite(s): NUR 5350, 5351, 5452 and current physical assessment skills.

Beginning diagnosis of common acute and chronic illnesses seen by the family nurse practitioner. An interdependent systematic approach to the treatment options across the lifespan will be studied for selected body systems.

5356 Family Health Care Management II

Co-requisite(s): NUR 5259.

Prerequisite(s): NUR 5258 and 5355.

Continuing diagnosis of common acute and chronic illnesses seen by the family nurse practitioner. A systematic approach to the treatment options across the lifespan will be studied for all body systems. Consideration of pain management, palliative care, and long term care will be included.

5360 Developmental Physiology of the Fetus/Newborn

This course is designed to provide the student with a greater depth of understanding of developmental physiology of the fetus and neonate. Principles of growth and development, physiologic maturation of organ systems, birth physiology, and transition to extrauterine life through early infancy will be covered. Adaptation of physiologic stress and alterations from normal will also be addressed.

5361 Advanced Newborn/Infant Pharmacotherapeutics

This course provides the student with an in-depth understanding of pharmacotherapeutics for newborns and infants. Content focuses on the alterations seen in the principles of pharmacokinetics and pharmacodynamics when applied to newborn/infant physiology, special considerations of drug therapy in the newborn/infant, and advanced nursing management of selected newborn/infant therapeutics. Issues associated with drug therapy in the neonatal intensive care unit and evaluation of experimental therapies are included. The course also provides essential information needed to obtain prescriptive authority for advanced practice neonatal nurses.

5363 Advanced Neonatal Nursing Practicum II

Prerequisite(s): NUR 5266.

Practicum focuses on continuing to develop clinical competency and delivery room management in the advanced practice role while incorporating pathophysiology, stabilization, management, and evaluation of high-risk newborns/infants with mixed acuity and chronic health problems. By using the processes of expert practice, consultation, collaboration, administration, and research utilization, the student will provide advanced nursing management of a caseload of high-risk newborns/infants and their families. The experience is accomplished under the guidance of program faculty and the supervision of approved preceptors (Advanced Practice Neonatal Nurses and board-certified neonatologists).

5364 Pathophysiology of the Newborn/Infant

Theoretical and practical knowledge of pathophysiology as it applies to the advanced nursing care of newborns/infants with acute and/or chronic illness or at risk for health problems from a high-risk pregnancy. Consequences of the intensive care environment and abnormal physiology for the normal development of the fetus, newborn and infant will also be addressed.

5365 Advanced Neonatal Nursing Management I: High-Risk & Critically Ill Newborns/Infants

Prerequisite(s): NUR 5163 and NUR 5262.

Theoretical and practical knowledge needed for advanced practice neonatal nurses (APNN) to manage the health care needs of culturally diverse newborns/infants in neonatal intensive care units

(NICU). Content focuses on stabilization, management and evaluation of high-risk and critically ill newborns/infants and their families. Responsibilities of the APNN in perinatal-neonatal health care policy and delivery systems management are also emphasized.

5367 Advanced Neonatal Nursing Management II: Acute & Chronic Problems of Newborns/Infants

Prerequisite(s): NUR 5365.

Theoretical and practical knowledge needed for advanced practice neonatal nurse (APNN) to manage the health care needs of culturally diverse newborns/infants in neonatal intensive care units (NICU) and post-discharge NICU graduates through the first two (2) years of life. Content focuses on stabilization, management, and evaluation of acute and chronic illness during infancy. Responsibilities of APNN in perinatal-neonatal health care policy and delivery systems management are also emphasized.

5369 Advanced Neonatal Nursing Practicum III Residency

Prerequisite(s): NUR 5363.

Theoretical and practical knowledge needed for advanced practice neonatal nurses (APNN) to manage the health care needs of culturally diverse newborns/infants in neonatal intensive care units (NICU). Content focuses on stabilization, management and evaluation of high-risk and critically ill newborns/infants and their families. Responsibilities of the APNN in perinatal-neonatal health care policy and delivery systems management are also emphasized.

5414 Scientific Inquiry for Advanced Nursing Practice

Prerequisite(s): Basic statistics course; graduate-level standing.

Explores the application of knowledge development and methods of inquiry to advanced nursing practice. The course focuses on scientific and evaluative strategies including concept/theory development, research methodology, evaluation of disease and health (epidemiology) and evidence-based health care.

5430 Principles and Methods of Nursing Research for the RN to Masters Student

Prerequisite(s): Basic statistics course.

Principles and methods of nursing research applied to problem identification, research design, data collection, measurement, data analysis and reporting. Critique of research process and outcomes to develop and implement the professional role: consumer of research.

5444 Advanced Neonatal/Infant Specialty Practicum

Prerequisite(s): Consent of instructor.

Clinical experience in developing advanced practice role competency in the neonatal nursing. Using the processes of expert practice, consultation, collaboration, administration, and research utilization, the student will provide advanced nursing management to newborn/infants and their families. The experience is accomplished under the guidance of program faculty and the supervision of approved preceptors (Advanced Practice Neonatal Nurses and board-certified neonatologists).

5452 Advanced Health Assessment/Promotion/Disease Prevention

Prerequisite(s): NUR 5350 or concurrent enrollment.

Expansion of prerequisite knowledge of health and physical assessment. Comprehensive physical, psychosocial, spiritual, and cultural assessments across the life span are studied. Health promotion and disease prevention during life transitions are incorporated into the assessment process. Advanced health assessment and disease prevention concepts and techniques are practiced. Beginning technical skills used in clinical diagnostic procedures are included.

5657 Family Nurse Practitioner Residency

Prerequisite(s): NUR 5259 and 5356.

A residency requiring independent clinical management of acute and chronic illnesses across the life span. Synthesis of practice management skills pertaining to economics, reimbursement for services, and time management will be emphasized as well as implementation of transcultural nursing concepts. Concepts of research will be applied in the clinical setting. An eight-week international placement is optional.

5V03 Teaching/Learning Practicum**1 to 3 sem. hrs.**

Prerequisite(s): NUR 5302.

Practical experiences to apply teaching/learning principles and theories and evaluation methods in classroom and clinical settings. The practicum is supervised by faculty and precepted by an accomplished teacher. Seminar discussions will focus on solutions to contemporary problems in nursing education.

5V08 Special Topics in Advanced Nursing**1 to 3 sem. hrs.**

Prerequisite(s): Graduate standing.

The special topics, variable credit course provides opportunity for advanced study in areas not covered by formal nursing courses.

5V42 Nurse-Midwifery II: Women's Health**1 to 3 sem. hrs.**

Prerequisite(s): NUR 5255.

This course provides students with the knowledge and skills necessary to promote health, maintain wellness, and manage common health problems in women seeking contraception, pregnant women, and women seeking care for the management of common gynecologic problems and conditions across the lifespan.

5V43 Nurse-Midwifery II: Women's Health Practicum**1 to 3 sem. hrs.**

Prerequisite(s): NUR 5V42 or concurrent enrollment.

This course provides students with clinical experiences to demonstrate synthesis, integration, and translation of the knowledge and skills necessary to promote health, maintain wellness, and manage pregnancy, contraception, and common gynecologic problems. Use of information technology in the clinical practice setting is expected. The nurse-practitioner and nurse-midwifery management models of care are used in the provision of assessment, diagnosis, intervention, and evaluation for clients.

5V49 Health Care and Missions**2 to 3 sem. hrs.**

Prerequisite(s): Consent of the instructor.

Analysis of methods used to start and maintain health care clinics in a transcultural setting.

5V97 Independent Study**1 to 3 sem. hrs.**

Prerequisite(s): Consent of instructor.

An opportunity for the student to supplement knowledge gained in previous graduate nursing courses. Maximum of three semester hours credit.

5V99 Thesis**1 to 6 sem. hrs.**

Prerequisite(s): NUR 5330 and three semester hours of elective credit.

6370 Clinical Genetics

This course provides an in-depth background in classic Mendelian genetics and population/individual genetics as they bear on the course of life, from the intrauterine period to death. Application of genetics to clinical practice scenarios is the focus of this course.

6371 Nursing Informatics

This course focuses on the current role of information technology in nursing practice. Emerging trends and informatics are explored. Students will become familiar with application of information science and computer technologies in health care, biomedical research, and education of health professionals.

6372 Applied Ethics to Advanced Practice Nursing

Prerequisite(s): NUR 5211.

This course focuses on ethical dilemmas arising in clinical settings and/or health care systems. The course will introduce students to philosophical analysis and arguments in a practical context.

6373 Clinical Epidemiology

Prerequisite(s): NUR 5414.

An integration of basics of epidemiology (e.g. incidence, distribution and determinants of disease) and public health in order to promote knowledge and skills in care for vulnerable populations as individuals and aggregate. Basics of study of populations, biostatistics and environmental data will be included. This course builds upon NUR 5414 Scientific Inquiry.

6374 Issues in Health Care and Practice

Prerequisite(s): NUR 5414 or a graduate level research course and NUR 5313 or a graduate level health care management course.

This course focuses on the current health care systems, policies, and attributes of the health care provider leading to effective, safe, and efficient health care delivery to a specific population of interest.

6375 Scientific Inquiry II

Prerequisite(s): NUR 5414.

This course builds upon the discussion of knowledge development, application, and methods of inquiry begun in NUR 5414 Scientific Inquiry. Concepts and theories from a wide variety of disciplines pertinent to nursing and Advanced Practice will be discussed in greater depth, as will generation and critique of Evidence-Based Care Research and Practice.

66C7 Capstone Project

Prerequisite(s): NUR 6V76 or concurrent enrollment.

This course provides the student the opportunity to work with a faculty mentor to investigate a health care issue of personal choosing. The student will demonstrate skills in leadership, communication, advocacy, education, research synthesis, and patient care and will develop a scholarly and disseminated project. The project will focus on a clinical issue such as direct care, development of best practices, or programs that indirectly influence clinical outcomes for a selected population or community focus.

6V76 Advanced Practice Nursing Residency

3 to 6 sem. hrs.

Prerequisite(s): Completion of all specialty clinical courses.

This course provides the student with in-depth clinical opportunities by focusing on personally designed experiences that lead to increasing expertise in providing safe, effective, and efficient care in a focused population.

PHILOSOPHY (PHI)**4310 Philosophy of Science**

An analysis of philosophical problems about science. Such central concepts as law, causation, induction, hypothesis, theory, verification, and models are studied. Presuppositions and methodologies of different sciences may be examined. The relation of scientific views to moral, social, and metaphysical problems is considered.

4311 Epistemology

A critical examination of classical and current problems in theories of knowledge. Attention is given to such problems as meaning, truth, the knowing situation, universals, knowledge of the external world and of other minds, and validation of knowledge claims. The contributions of recent movements such as logical empiricism, linguistic analysis, phenomenology may be studied.

4314 History of Philosophy: Patristic and Medieval

The history and development of philosophy from 250 to 1400 A.D. Some of the major philosophers studied include Augustine, Boethius, John Scotus Erigena, Anselm, Abelard, Avicenna, Averroes, Maimonides, Bonaventure, Thomas Aquinas, John Duns Scotus, and William of Ockham. Special emphasis will be placed on the significance of pre-Enlightenment thinkers to the development of the Enlightenment and Modernity.

4318 Philosophy of Law (Cross-listed as AMS 4318)

A critical study of historical and contemporary approaches to primary issues in jurisprudence and the philosophy of law, including tort law, criminal law, and Constitutional law.

4319 Philosophical Writing, Research and Oral Presentation

Prerequisite(s): Upper-level standing and consent of instructor.

Enhancing philosophical writing skills, promoting proficiency with new computer research technologies, and refining oral communication skills.

4320 The Philosophy of Religion

A philosophical inquiry into such topics as the existence and nature of God, religious experience, immortality, the problem of evil, the relationship between reason and faith, the meaning of religious language and symbols, and the validity of religious knowledge claims. Methods of contemporary philosophical analysis are used in clarifying religious concepts.

4321 Metaphysics

A critical analysis of classical and contemporary metaphysical systems and problems. These include the world views found in the philosophies of naturalism, idealism, personalism, positivism, pragmatism, organicism, and existentialism. Problem areas considered are mind-body relations, cosmology, ontology, philosophical anthropology, universals, determinism, and freedom. Basic categories such substance, cause, time, space, matter, and form are critically examined. Attention also is focused upon methods and criteria employed in metaphysical study.

4324 Philosophy in Literature

A critical study of philosophical material in literature, that is, a study of the philosophy to be found in essays, novels, poems, and plays. Among the authors usually studied are Plato, Aristotle, Theophrastus, Lucretius, Voltaire, Goethe, Ibsen, Nietzsche, Kafka, Camus, Sartre, Malraux, Hesse and selected contemporary novelists.

4331 Latin American Philosophy

Prerequisite(s): Upper-level standing.

Philosophical and intellectual movements in Latin America from the colonial times to the present. These movements include scholasticism, eclecticism, utilitarianism, romanticism, positivism, vitalism, phenomenology, and existentialism and philosophies of liberation. Works of major representatives of these movements (including such men as Bello, Mora, Sierra, Varona, Deustua, Caso, Korn, Vasconcelos, Farias Brito, Vaz Ferreira, and Romero) are studied.

4340 East Asian Philosophy (Cross-listed as AST 4340)

An historical and critical survey of the major movements in Chinese, Indian, or Japanese philosophy. Course may be repeated once with different area of concentration.

4341 Contemporary Continental Philosophy

A critical study of philosophical movements in Europe during the past one hundred and fifty years. Some of the major philosophers studied include Nietzsche, Husserl, Adorno, Heidegger, Merleau-Ponty, Sartre, de Beauvoir, Wittgenstein, Russell, Carnap, Gadamer, Habermas, Lyotard, Foucault, and Derrida. Movements studied include phenomenology, positivism, naturalism, critical theory, existentialism, structuralism, deconstructionism, and post modernism. Course may be repeated once with a different area of concentration.

4342 Contemporary American Philosophy (Cross-listed as AMS 4342)

A critical study of philosophical movements in the United States during the past one hundred years. Some of the philosophers whose works are studied include Pierce, James, Royce, Dewey, Mead, Lewis, Santayana, Whitehead, and Quine. Recent movements such as critical realism, naturalism, humanism, personalism, logical positivism, and linguistic analysis are also studied.

4345 Intermediate Logic

Prerequisite(s): Upper-level standing.

The language of first-order logic as a formal deductive system.

4353 Philosophy of Language

Prerequisite(s): Upper-level standing.

Critical examination of the basic problems in general semantics and philosophy of language, giving special attention to the major authors in these fields.

4360 Contemporary Ethical Theory

Prerequisite(s): Upper-level standing.

Major issues in contemporary ethical writings. Course may be repeated once for credit if topic varies.

4361 Social Philosophy

A critical survey of the fundamental concepts and theories used in justifying social institutions. Problems such as authority, law, freedom, rights, equality, responsibility, power, justice, the state, and justification of open societies are considered.

4365 Jewish Philosophy

Prerequisite(s): Upper-level standing or consent of instructor.

Jewish philosophy in the twentieth century, with emphasis on the relation between mortality and morality, justice and totalitarianism, faith after the Holocaust, and individualism and revolution.

4379 Islam and Democracy (Cross-listed as CHS 4379 and PSC 4379)

See CHS 4379 for course information.

4V99 Special Topics in Philosophy (Cross-listed as AMS 4V99)

1 to 3 sem. hrs.

Prerequisite(s): Senior or graduate standing and consent of instructor.

Faculty-directed individual, group or class research project. Course may be repeated twice for credit if topics vary.

5310 Value Theory

A seminar on the major interpretations of the nature and meaning of value, with particular attention to the relation between value theory and ethics. Course may be repeated once with a different topic of study.

5311 Readings from the Philosophers (Cross-listed as PSC 5311)

An intensive, critical reading of selected works of major philosophers such as Plato, Aristotle, Augustine, Aquinas, Descartes, Locke, Hume, Kant, Hegel, Nietzsche, Heidegger, Russell, and Rawls. Other philosophers may be added to this list. May be taken a maximum of six times if different topic, not to exceed eighteen semester hours.

5312 Topics in Classical Philosophy

Prerequisite(s): Admission to graduate programs of Baylor University or consent of instructor.

A critical study of philosophers from the classical world; may include figures from the pre-socratic origins of philosophy to the times of epicurean and stoic philosophers, including especially Plato and Aristotle. May be repeated twice for different topics.

5314 Topics in Modern Philosophy

Prerequisite(s): Admission to graduate program of Baylor University or consent of instructor.

A critical study of philosophers from the Modern Period, including thinkers from the sixteenth to the nineteenth centuries. May be repeated twice if different topics.

5316 Contemporary Philosophical Problems

Examination of historical, normative, and analytical problems which have arisen in the history of philosophy and an examination of the systems of philosophy which have emerged from the consideration of these problems. May be taken six times if different topic, not to exceed eighteen semester hours.

5320 Special Topics in Philosophy

Special research topics to be undertaken by students under direct supervision of the professor. Course may be taken a maximum of four times if different topic, not to exceed twelve hours.

5330 Readings in Ancient and Medieval Philosophy

Prerequisite(s): Fifteen hours of graduate credit in philosophy.

A critical readings course on primary sources and ancient and medieval philosophy. The course concludes with a comprehensive written examination over the sources. Course may be taken twice for a maximum of six semester hours.

5331 Readings in Modern and Contemporary Philosophy

Prerequisite(s): Fifteen hours of graduate credit in philosophy.

A critical readings course on primary sources in modern and contemporary philosophy. The course concludes with a comprehensive written examination over the sources.

5333 Seminar in Political Philosophy (Cross-listed as PSC 5333)

See PSC 5333 for course information.

5338 Seminar on Church and State in Modern Europe (Cross-listed as CHS 5338, HIS 5338, and REL 5338)

See CHS 5338 for course information.

5342 Seminar on Religion, Law, and Politics (Cross-listed as CHS 5342, PSC 5342, and REL 5340)

See CHS 5342 for course information.

5343 Classical Political Thought (Cross-listed as PSC 5343)

See PSC 5343 for course information.

5350 Workshop in Teaching Philosophy

Prerequisite(s): Consent of director of graduate studies in philosophy.

This course will address a broad range of pedagogical issues involved in becoming a successful philosophy teacher. Topics include: educational theory, organizational strategies, practical techniques for effective lecturing, practical techniques for stimulating discussion, the logistics of evaluation, the scholarship of teaching and the importance of ongoing self-assessment of classroom performance.

5353 Medieval Political Thought (Cross-listed as PSC 5353)

See PSC 5353 for course information.

5360 Topics in Contemporary Ethical Theory

Prerequisite(s): Admission to graduate programs of Baylor University or consent of instructor.

A critical study of issues in contemporary ethical theory; may be repeated twice with different topics of study.

5361 Contemporary Philosophy of Religion

Prerequisite(s): Graduate status or consent of instructor.

This course investigates issues in contemporary philosophy of religion.

5362 Issues in Contemporary Philosophy of Science

Prerequisite(s): Admission to Philosophy Ph.D. program.

A critical study of issues in contemporary philosophy of sciences; may be repeated twice with different topics of study.

5363 Modern Political Thought (Cross-listed as PHI 5363)

See PSC 5363 for course information.

5365 Philosophy of Language

A critical study of issues in philosophy of language. Meaning, reference, intentionality

and extensionality are among the issues to be considered using primary sources in contemporary philosophy.

5393 Advanced Seminar in Political Philosophy (Cross-listed as PSC 5393)

See PSC 5393 for course information.

5V99 Thesis

1 to 6 sem. hrs.

6V10 Prospectus Research

Prerequisite(s): PHI 5330 and 5331; and completion of regular course work.

Supervised research for developing and writing a Dissertation Prospectus Proposal that will be the subject of a preliminary exam that will admit students to candidacy. A student may repeat this course for credit, with a maximum of eighteen total hours.

6V99 Dissertation

1 to 12 sem. hrs.

Supervised research for the doctoral dissertation.

PHYSICS (PHY)

4322 Advanced Topics in Classical Physics

Prerequisite(s): PHY 3320, 3330, and MTH 3326.

Continuation of PHY 3320 and 3330. Topics normally include: dynamics of systems of particles: rigid-body motion; coupled oscillations; the wave equation in one dimension; gauge transformations; electromagnetic waves in conductors and nonconductors; dispersion; multiple radiation; Linard-Wiechert potentials; relativistic electrodynamics.

4340 Statistical and Thermal Physics

Prerequisite(s): PHY 3372 and MTH 3326.

Topics normally include: basic probability concepts; macroscopic thermodynamics; statistical thermodynamics; kinetic theory; quantum statistics.

4360 Computer Models in Physics

Prerequisite(s): PHY 3320, 3372, and CSI 3324.

Application of contemporary computer methods to the solution of physics and engineering problems. Theory and applications of finite difference equations. Deterministic, discrete, and continuous models. Computer graphics. Waves in classical and quantum physics. Monte Carlo calculations, electric circuits, partial differential equations in physics and engineering.

4372 Introductory Solid State Physics

Prerequisite(s): PHY 3373.

Topics normally include: crystal structure; reciprocal space; elastic and thermal properties; electronic structure; the Fermi surface; elementary semiconductor physics; dielectric and magnetic properties of solids.

4373 Introductory Nuclear and Particle Physics

Prerequisite(s): PHY 3373.

Topics normally include: nuclear structure and models; angular momentum and isospin; conservation laws and discrete symmetries; electromagnetic and weak interactions; quark model; nuclear and particle astrophysics.

4374 Introduction to Relativistic Quantum Mechanics

Prerequisite(s): PHY 3373.

Dirac's equation, its covariance properties, its solutions; Foldy-Wouthuysen transformation and exact results; propagator theory; applications in various areas of physics.

5155 Advanced In-Situ Instrumentation Techniques (Cross-listed as ENV 5155)

Prerequisite(s): PHY 4155, 4350, and concurrent enrollment in 4351.

Computer modeling and instrument design and development of detectors for the in-situ measurement of physical and dynamic characteristics of dust in interplanetary space and planetary ring systems. (0-3)

5180 Graduate Physics Colloquium

Prerequisite(s): Enrollment in graduate program.

Students are required to register for the weekly colloquium and to present papers. No more than three semester hours may be counted on a master's degree and no more than six may be counted on the Ph.D. degree. (1-0)

5320 Classical Mechanics I

Prerequisite(s): PHY 4322.

Elementary mechanics, variational principles, Lagrange's equations, two-body central forces, scattering, kinematics, rotations, rigid body motion, and Hamilton's equations of motion. (3-0)

5321 Classical Mechanics II

Prerequisite(s): PHY 5320.

Small oscillations; special relativity, including covariant Lagrangian formulation; canonical transformations; Hamilton-Jacobi theory; canonical perturbation theory; Lagrangian and Hamiltonian densities, with application to relativistic field theories. (3-0)

5330 Electromagnetic Theory I

Prerequisite(s): PHY 4322 and 5360 (concurrently).

Advanced electrostatics and magnetostatics, boundary-value problems, time-varying fields, conservation laws, plane electromagnetic waves, wave guides and resonant cavities, and simple radiating systems and diffraction. (3-0)

5331 Electromagnetic Theory II

Prerequisite(s): PHY 5330.

Magnetohydrodynamics and plasma physics, advanced relativistic electrodynamics, collisions of charged particles, scattering, Lienard-Wiechert potentials and radiation by moving charges, Bremsstrahlung, the method of virtual quanta, dynamic multipole fields, radiation damping, self-fields of a particle, and scattering and absorption by a bound system. (3-0)

5340 Statistical Mechanics

Prerequisite(s): PHY 4340 and credit or concurrent registration in PHY 5360.

Probability, statistical methods, classical and quantum statistical mechanics, postulates, ensembles, ideal systems, real gases, cluster expansions, liquid helium, and phase transitions. (3-0)

5342 Solid State Physics

Prerequisite(s): PHY 4372 and 5370.

Theory of solids: crystal symmetry, lattice dynamics, band theory, lattice defects, impurity states. Applications to the thermal, magnetic, and electrical properties of solids. (3-0)

5350 Fundamentals of Stellar Structure and Evolution

Prerequisite(s): PHY 4350 and 4351.

Stellar structure, hydrostatic equilibrium, radiative transfer, stellar surface phenomena, and corona interactions. Cosmical electrodynamics and nuclear reactions in astrophysics, basic stellar evolution, variable stars, degenerate cores, white dwarfs, and neutron stars. (3-0)

5351 General Relativity

Prerequisite(s): PHY 5360.

A systematic exposition of Einstein's general theory of relativity, with emphasis on applications to astrophysical and cosmological problems.

5352 Space Plasma Physics

Prerequisite(s): PHY 4322 and 5360 (concurrently) or consent of the instructor.

Space plasma and electromagnetic field phenomena; the guiding center drift equation (with applications); adiabatic invariant theory; the basic equations of magnetohydrodynamics; plasma convection, currents (including Chapman-Ferraro currents and ring currents), oscillations; magnetohydrodynamic boundaries, diffusion, waves, shocks, and instabilities. (3-0)

5360 Mathematical Physics I

Prerequisite(s): MTH 2321 and 3325.

Theory of analytical functions, Laplace and Fourier transforms, Fourier series, theory of distributions, ordinary differential equations, eigenvalue problems, special functions defined by eigenvalue problems, Green's functions, partial differential equations, radiation problems and scattering problems. (3-0)

5361 Mathematical Physics II

Prerequisite(s): PHY 5360 or consent of instructor.

Conformal mapping, electrostatic problems, dispersion relations, asymptotic expansions, method of steepest descent, calculus of variations, Rayleigh-Ritz principle, finite-dimensional vector spaces, matrix theory, orthogonal transformations, normal coordinates, Hilbert vector spaces, unitary transformations, resolvent operators, operator calculus, integral equations, and approximate methods for solution of boundary value problems. (3-0)

5370 Quantum Mechanics I

Schrodinger equation, eigenfunctions and eigenvalues, harmonic oscillator, and hydrogen atom. WKB approximation, collision theory, matrix formulation of quantum mechanics, transformation theory, and representation theory, including Schrödinger and Heisenberg picture. (3-0)

5371 Quantum Mechanics II

Prerequisite(s): PHY 5370.

Angular momentum algebra, Pauli Principle, many-particle systems, conservation laws, symmetry principles, time-dependent approximation methods, time-independent approximation methods, atoms, molecules, and relativistic wave equations. (3-0)

5381 Special Topics in Physics

Prerequisite(s): Consent of instructor and the departmental adviser.

Selected topics in physics. May be repeated once with change of content. (3-0)

5V95 Graduate Research

1 to 9 sem. hrs.

Prerequisite(s): Consent of student's research supervisor and departmental adviser.

The research is intended for those students who have not yet passed the Ph.D. qualifying examination and who have not yet selected a Ph.D. dissertation topic. May be repeated for no more than twelve semester hours of credit. (Not to be counted on master's degree). (0-9) or (3-0)

5V99 Thesis

1 to 6 sem. hrs.

Prerequisite(s): Twelve semester hours of graduate work and consent of the department.

6350 Relativistic Astrophysics

Prerequisite(s): PHY 5350 and 5351.

Relativistic astrophysics, and the final stages of stellar evolution; supernovae, binary stars, accretion disks, pulsars; extragalactic radio sources; active galactic nuclei; compact objects.

6351 Cosmology

Prerequisite(s): PHY 5350 and 5351.

Cosmology: extragalactic distance determinations; relativistic cosmological models; galaxy formation and clustering; thermal history of the universe, microwave background; cosmological tests, advanced topics in general relativity.

6352 High-Energy Astrophysics

Prerequisite(s): PHY 5330, 5340, 5360 and 5370.

Radiative transfer, scattering, the interaction of matter and radiation, atomic and molecular structure, magnetohydrodynamics and plasma physics, accretion disks and spiral density waves.

6370 Advanced Quantum Mechanics

Prerequisite(s): PHY 5371.

Identical particles and symmetry, self-consistent field theory, spin and angular momenta, electromagnetic interactions, semiclassical radiation theory, many-body perturbation theory, topics in scattering theory. Applications to atomic, molecular, and nuclear systems. (3-0)

6371 Relativistic Quantum Mechanics

Prerequisite(s): PHY 5371.

Klein-Gordon equation, Dirac equation, solutions of Dirac equation for scattering and bound states, non relativistic limits of Dirac solutions, hole theory, Feynman diagrams, quantum electrodynamics, renormalization procedures, non-electromagnetic processes, solutions. (3-0)

6372 Elementary Particle Physics

Prerequisite(s): PHY 5371.

Basic concepts of elementary particle physics; symmetries, groups, and invariance principles; hadron-hadron interactions; static quark model of hadrons; weak interactions; brief introduction to quantum chromodynamics. (3-0)

6373 Quantum Field Theory I

Prerequisite(s): PHY 4374, 5370, 5371, or 6371; or consent of instructor.

Second quantization of free fields; second quantization of interacting fields; elementary processes - Q.E.D. and non-Q.E.D. examples; perturbation theory methods for higher order processes; renormalization theory; path integral realization of quantum field theory.

6374 Quantum Field Theory II

Prerequisite(s): PHY 6373.

Modern formulation of quantum field theory: quantization and renormalization of gauge theories, both Abelian and non-Abelian; third quantization; applications in the Q.E.D. example; SU(2)_L XU(1) theory; quantum chromodynamics; grand unified theories; theories of everything including quantum gravity such as the superstring theory.

6375 Quantum Field Theory III

Prerequisite(s): PHY 6374.

Continuation of 6374: Detailed theory of higher order corrections to Standard Model and beyond the Standard Model processes; detailed presentation of recent developments in superunification, superstring/M theory, superstring field theory, and other approaches to quantum general relativity, depending on instructor. May be repeated for credit by instructor for a maximum of nine credits.

6380 Special Topics in Advanced Physics

Prerequisite(s): Consent of student's graduate committee.

Special topics which are related to specialized fields of research sponsored in the department. May be repeated once with change of content. (3-0)

6V99 Dissertation

1 to 12 sem. hrs.

Prerequisite(s): Consent of the student's supervisory committee and admission to candidacy.

A minimum of twelve semester hours is required.

POLITICAL SCIENCE (PSC)

COMPARATIVE POLITICS

4304 Governments and Politics of Latin America

Forms of organization, functions, and operations of governments in Latin America, with emphasis on contemporary conditions, trends, and distinctive types of Latin American institutions and policies.

4314 Government and Politics of Mexico

Constitutional development and political processes in the Mexican federal system. Emphasis will be placed on twentieth-century constitutional and political change, with special attention given to the current scene.

4324 British Government and Politics

Foundations, processes, and politics of British government. Emphasis will be given to political parties and interest groups, parliament, cabinet and administration, judiciary, and the prime minister. Analysis of current political issues and policies will be undertaken.

4334 Governments and Politics of the Middle East

Political structures and processes of the Middle East nations with an emphasis on elites, political parties, interest groups, and bureaucracies. Inter-regional relations, nationalism, the impact of religion and the Arab-Israeli conflict will be considered. Problems of nation-building, regional cooperation, as well as super- and great-power penetration, will also be explored.

4344 Government and Politics of Russia

Historical and cultural background, the organization and functions of government, and the theory and practice of Russian politics. Emphasis is given to Russia's relationships with associated states.

4354 Governments and Politics of Western Europe

Prerequisite(s): Upper-level standing.

A comparative study of the forms of government organization, political processes, and major developments in Western Europe. Course emphasizes parliamentary forms of democracy.

4364 The Governments and Politics of the Asia-Pacific Region (Cross-listed as AST 4364)

Historical development of the Asia-Pacific region, with a focus on the contrasting roles played by China, Japan, and the United States. Discussion of alternative models of economic development and the impact of ASEAN and APEC on regionalism. Survey of the socio-political conditions in and among the region's states, with special attention devoted to Korean unification and cross-strait relations.

4374 Governments and Politics of East Asia (Cross-listed as AST 4374)

Government organization and functions, political processes, and major developments in the political systems of Japan, China, and Korea since World War II.

4379 Islam and Democracy (Cross-listed as CHS 4379 and PHI 4379)

See CHS 4379 for course information.

5324 Seminar in Comparative Politics

Political culture, institutions, processes, and policies from a cross national perspective. Emphasis on role of political, economic, social, and cultural factors relating to political development, stability, and organization. Research topics and primary country analyses may vary.

INTERNATIONAL RELATIONS

4303 International Human Rights (Cross-listed as CHS 4303)

See CHS 4303 for course information.

4315 Political Geography (Cross-listed as GEOG 4315)

Concepts and principles of political geography. Analysis of dynamics of spatial relations and interactions of states. Comparison of main approaches, including geo-politics. Study of state elements, especially territorial integrity and frontiers. Survey and analysis of world political patterns.

4316 Grand Strategy

Prerequisite(s): Upper-level standing.

The relationship between a great power's grand strategy and stability in international politics.

4325 Asian International Relations (Cross-listed as AST 4325)

Historical and cultural background and structure of the emerging international order in Asia, with particular attention to the role of Japan, Russia and the Soviet successor states, and the People's Republic of China.

4335 Public Discourse and Foreign Policy (Cross-listed as CSS 4353)

See CSS 4353 for course information.

4346 Intelligence and Covert Action

Prerequisite(s): Upper level standing.

The impact of intelligence, counterespionage, and covert action policies on national security policy and international relations.

4355 Power, Morality, and International Relations

Prerequisite(s): Upper-level standing.

The influence of moral principles on international politics.

4365 International Political Economics

Prerequisite(s): Junior standing or above.

The intersection of politics and economics at the domestic and international levels. Political outlooks considered include liberalism, Keynesianism, and Marxism.

4375 International Organization

Fundamentals of international politics and international law, advancing to an intensified study of past and, particularly, present international organizations, especially the United Nations.

4385 Diplomacy in Theory and Practice

Prerequisite(s): Upper-level standing.

How states and other international actors communicate and pursue their foreign policy objectives through the use of diplomatic agents and techniques.

4395 Terrorism

Prerequisite(s): Upper-level standing.

The effectiveness of terrorism as a coercive strategy for states and non-state actors as well as the threat terrorism poses to the interests of the United States.

5315 Development of International Relations Thought

A study of major thinkers on international politics through history, with reference to contemporary international relations thought.

5325 Seminar in International Relations

Theories concerning relations among nations, foreign policy formation and administration, cases of cooperation and conflict within the society of nations. Research topics vary so as to cover a broad range of contemporary issues, problems, and diplomatic practice.

5335 Seminar in National Security Decision Making

Analysis of the components of national security strategy and those international and domestic factors that shape it. Seminar covers the process, factors, institutions, and issues in national security decision making.

5345 American Foreign Policy

Course examines the theory and practice of American foreign policy. Emphasis is on major issues in United States diplomacy and basic ideas governing American foreign policy.

5355 Development of Strategic Thought

This seminar will examine the ideas of strategic thinkers who lived in a variety of historical periods. Students will read works by major strategists including Thucydides, Sun Tzu, Machiavelli, and Clausewitz.

5395 Professional Paper in International Relations

Under the direction of a supervising professor, a problem or topic in international relations to be selected and a substantial paper to be written. This is one of the options for the master's degree in international relations.

OTHER**5312 Social Science Data Analysis (Cross-listed as SOC 5312)**

See SOC 5312 for course information.

5323 Research Design and Research Methods (Cross-listed as ENV 5323)

Introduction to the discipline of political science, focusing particularly on research methods, research design, and questions relating to the philosophy of science.

5391 Reading Course in Political Science

Prerequisite(s): Graduate standing and consent of instructor.

A tutorial course designed for advanced graduate study in political science to supplement other course requirements. The nature, limits, and requirements will be established in each instance after consultation between professor and student. May be repeated under a different topic for a total of six hours credit.

5396 Teaching Political Science

Directed readings done in conjunction with an undergraduate course for which the student serves as a teaching apprentice. Course requirements include graduate-level research paper and annotated bibliography of undergraduate course materials. May be taken three times for graduate credit, in conjunction with different undergraduate courses.

5V99 Thesis**6V10 Prospectus Research**

1 to 6 sem. hrs.

Prerequisite(s): Completion of regular coursework.

Supervised research for developing and writing a dissertation prospectus that will be the subject of an oral defense that will admit students to candidacy. A student may repeat this course for credit with a maximum of twelve total hours. Registration for this course is the equivalent of full-time status for graduate students.

6V99 Dissertation

Prerequisite(s): Consent of the student's supervisory committee and admission to candidacy.

Supervised research for the doctoral dissertation with a minimum of twelve semester hours required.

AMERICAN POLITICAL INSTITUTIONS

4300 Political Behavior (Cross-listed as AMS 4300)

Psychological and social dimensions of political behavior including political images, culture and socialization, participation, leadership, elites, parties and interest groups, voting behavior, and decision making processes.

4310 Politics and Communication (Cross-listed as CSS 4310)

The dynamic relationships between political and communication institutions; topics include political discourse, news and information, and portrayal of politics in popular entertainment.

4320 African American Politics (Cross-listed as AMS 4321)

Prerequisite(s): Upper-level standing.

Contemporary African American politics, including leading theories and paradigms, important social and political movements, prominent leaders, party politics, and role of the "Black Church."

4330 Urban Political Processes (Cross-listed as ENV 4330)

Political institutions and processes in metropolitan areas, including social, economic, and governmental problems resulting from increased urbanization.

4340 African American Communication (Cross-listed as CSS 4354)

See CSS 4354 for course information.

4360 Religion and the Body Politic (Cross-listed as CHS 4360, HIS 4360, and REL 4360)

See CHS 4360 for course information.

4370 Politics and Religion (Cross-listed as CHS 4370)

Prerequisite(s): Upper-level standing.

The dynamic interaction between religion and politics in the United States and other countries, including the effect of political outcomes in the context of voting, legislative and executive policymaking, and the law.

4380 Government and Business

Government in relation to the economy. Public policy with respect to such vital areas as maintenance of competition, public utilities, transportation, labor, agriculture, protection of the investor, and foreign economic policy. (Not to be taken if ECO 4317 has already been taken for credit.)

5310 Seminar in American Politics

Examination of American politics, institutions, and behavior. Topics will vary within the subfield of American politics. May be repeated three times for graduate credit when topics differ.

5330 American Political Development (Cross-listed as AMS 5330)

Study of the development and reform of political institutions and practices over the course of American history.

5340 The American Founding (Cross-listed as AMS 5340)

Study of the debates on the proper structure, institutional arrangements, and purposes of government during the Founding period focusing on the creation and ratification of the American constitution.

5350 Seminar in Presidential Rhetoric (Cross-listed as CSS 5350)

Survey of the genres of presidential rhetoric and theories of the rhetorical presidency; critical analysis of presidential discourse in selected eras, with focus on texts in context; methods of evaluating presidential communication.

5361 Seminar on Religion and Politics in America (Cross-listed as CHS 5361, HIS 5361, and REL 5361)

See CHS 5361 for course information.

5V12 Graduate Internship

1 to 6 sem. hrs.

Prerequisite(s): Consent of Director of Graduate Studies required.

Internship of a minimum of three months of supervised, full-time employment. The experience combines practical field experience and research. Completion of the course requires a written report on the work done during the internship. Students seeking the MA in International Relations must work in a public or private concern involved in international affairs. Students seeking the MA in Public Policy Administration or the JD/MPPA must work in a public sector agency. All students must secure the permission of the Director of Graduate Studies to take this course.

PUBLIC LAW**4305 International Law**

Nature and origins of international law and the rights, duties, and responsibilities of the states under that law, as well as the problems which have arisen in its interpretation and enforcement.

4307 Environmental Law (Cross-listed as ENV 4307)

See ENV 4307 for course information.

4321 Administrative Law

Nature and the law of the administrative procedure, of separation and delegation of powers, and of the scope of judicial review and other remedies against administrative actions.

4361 American Constitutional Law (Cross-listed as AMS 4361)

Constitutional law of the United States with basic cases concerning such subjects as separation of powers, federalism, the taxing and spending powers, and interstate and foreign commerce.

4381 American Constitutional Law (Cross-listed as AMS 4381)

Continuation of PSC 4361, but may be taken independently of that offering. Deals with those cases relating particularly to personal liberty and civil rights.

5321 Seminar in Public Law

Role(s) of the judiciary in American politics and administration. Areas examined may include American constitutional development, constitutional and legal interpretation, judicial behavior and politics, including the role of interest groups and public opinion, and judicial recruitment. May be repeated three times for graduate credit when topics differ.

5339 Seminar on Church and State in the United States (Cross-listed as CHS 5339, HIS 5339, and REL 5339)

See CHS 5339 for course information.

5341 Seminar on Church-State Relations in the Modern World (Cross-listed as CHS 5341 and REL 5341)

See CHS 5341 for course information.

5344 Comparative Constitutional Law

Comparative analysis of constitutional theory and development, the link between democracy and constitutionalism, and the role of judicial review. Different constitutional approaches to issues such as executive-legislative relations, federalism, political participation, and civil liberties will be considered.

PUBLIC POLICY AND ADMINISTRATION

4322 Seminar in Public Administration

Prerequisite(s): Upper-level standing.

A course for upper-level undergraduates and graduate students contemplating careers requiring administrative skills. Topics, which will be chosen to meet the special needs of students, include the study of public personnel techniques and methods, project design and analysis, and program budgeting.

4342 Public Policy and the Courts

Prerequisite(s): PSC 2302 or consent of instructor.

The Supreme Court's role in the making of public policy, including its history, its justification, and its limits. Emphasis on court cases and literature covering economic, social and civil rights issues.

5320 Seminar in Comparative Public Policy

Modern industrial state in Western democracies from a comparative policy perspective, with selected emphasis on such topics as economic management, re-industrialization, social welfare, environmental protection, education, health care, defense, and housing/transportation.

5322 Seminar in Public Administration

Special topics, including organizational theory, administrative behavior, and personnel management, financial management and budgeting, program management and evaluation, and quantitative analysis. May be repeated for credit when topics differ.

5342 Seminar on Religion, Law, and Politics (Cross-listed as CHS 5342, PHI 5342, and REL 5340)

See CHS 5342 for course information.

5392 Professional Paper in Public Policy and Administration

Satisfies the non-thesis option for the Master of Public policy and Administration degree and the Master of Arts degree in international relations. A problem or topic in either public policy or administration will be selected, and the student will write a substantial paper for submission to the faculty. May not be taken if PSC 5V12 (Internship) is required.

POLITICAL THEORY AND POLITICAL PHILOSOPHY

4313 Politics and Literature

Prerequisite(s): Upper-level standing.

Study of fundamental questions of political theory as treated in works of literature. Topics may include authority, law and discretion, the individual and the community, and the nature of freedom, especially as these issues emerge in different political orders. This course may be taken more than once, for a maximum of six credit hours, when content differs.

4383 Contemporary Political Thought

Twentieth-century political ideas, with emphasis on contemporary democratic political theory and the challenges posed for traditional democratic ideals by major movements in contemporary psychological, existentialist, ethnic, feminist, socialist, and nationalist thought, and by problems rising from technology, mass society, and the observations of empirical political science.

5311 Readings from the Philosophers (Cross-listed as PHI 5311)

See PHI 5311 for course information.

5333 Seminar in Political Philosophy (Cross-listed as PHI 5333)

Select topics and issues in contemporary political theory developed and explored with an emphasis on the seminal writings of original thinkers and on the contemporary debates surrounding these writings. Possible themes of this course include postmodern political thought, neo-Kantian and neo-Hegelian political theory, contemporary liberal and communitarian thought, theories of justice, contemporary relevance of ancient political philosophy.

5343 Classical Political Thought (Cross-listed as PHI 5343)

Study of selected major texts in classical (Greek and Roman) political thought, with an emphasis on the origin of political philosophy in the thought of Socrates and its development in the works of Plato

and Aristotle. This course may be repeated, for a maximum of nine credit hours, when content differs.

5353 Medieval Political Thought (Cross-listed as PHI 5353)

Study of selected major texts in medieval political thought, with an emphasis on either major thinker(s), or theme(s). Themes may include nature and grace, politics and salvation, theology and practical wisdom. This course may be repeated, for a maximum of nine credit hours, when content differs.

5363 Modern Political Thought (Cross-listed as PHI 5363)

Study of selected major texts in modern political thought, from Machiavelli to Nietzsche. This course may be repeated, for a maximum of nine credit hours when content differs.

5373 Contemporary Democratic Theory

Study of themes, issues and debates defining the contemporary conversation about democracy among political theorists. Texts will include works of major importance to recent democratic theory.

5393 Advanced Seminar in Political Philosophy (Cross-listed as PHI 5393)

Prerequisite(s): PSC 5343, 5353, or 5363; or the equivalent, with the consent of the Graduate Director.

Concentrated study of major thinkers or texts in the history of political philosophy. This course may be taken more than once, for a maximum of nine credit hours, when content differs.

PSYCHOLOGY (PSY)**4300 Advanced Statistics I**

Prerequisite(s): PSY 2402 or STA 2381 or equivalent; and upper-level standing.

Logical nature of statistical reasoning. Sets, probability, density functions, random variables and their distributions, estimation, and hypothesis testing.

4312 Behavioral Medicine (Cross-listed as MH 4312 and NSC 4312)

See NSC 4312 for course information.

4339 Psychology of Religion

Prerequisite(s): PSY 1305 or consent of instructor.

Psychological processes in religious experience and related phenomena with a focus on religious development through the life cycle and the major psychological interpretations.

5128 Group Dynamics Laboratory

Prerequisite(s): Psy.D. students only.

A laboratory in group dynamics for Psy.D. students emphasizing interprofessional relationships.

5301 Introduction to Experimental Design

Prerequisite(s): Graduate standing.

Simple and complex analysis of variance and analysis of covariance designs. The general linear model approach, including full-rank and less than full-rank models, will be emphasized.

5302 Measurement in Psychology

Prerequisite(s): PSY/STA 5301 or consent of the instructor.

Principles and methodology underlying scaling techniques, rating devices, psychological tests, and other forms of measurements used in psychology. Includes an introduction to psychometrics and applications to objective personality assessment.

5305 Advanced Experimental Design

Prerequisite(s): STA 5381 or consent of instructor.

The course examines a variety of complex experimental designs that are available to researchers including split-plot factorial designs, confounded factorial designs, fractional factorial designs, incomplete block designs, and analysis of covariance. The designs are examined within the framework of the general linear model. Extensive use is made of computer software.

5307 Advanced Statistics II

Prerequisite(s): PSY/STA 5301.

Selected topics from correlation, regression, non-parametric methods, survey sampling, and Bayesian statistics.

5311 Seminar in Memory and Cognition (Cross-listed as NSC 5311)

See NSC 5311 for course information.

5313 Advanced Measurement in Psychology

Prerequisite(s): PSY/STA 5301.

An introduction to item response theory and computerized adaptive testing. Emphasis on the three parameter logistic model. Topics include parameter and ability estimation, item bias, detection of multidimensionality, appropriateness measurement, and Owens-Bayes algorithm.

5315 Quantitative Psychology

Prerequisite(s): PSY/STA 5301.

Mathematical foundations of contemporary psychology.

5316 Clinical Psychopathology

Prerequisite(s): Graduate standing in psychology and consent of instructor.

Clinical case formulation, including the assessment and diagnosis of problems, case conceptualization, and treatment planning, based on current theory and research.

5317 Psychotherapy III: Relationship-based Therapies

Prerequisite(s): Psy.D. students only.

Current research and theory on relationship-based therapies including psychodynamic and object relations therapies, interpersonal therapy, and humanistic/existential therapies.

5318 Perception (Cross-listed as NSC 5318)

See NSC 5318 for course information.

5319 Clinical Neuroscience - Advanced (Cross-listed as NSC 5319)

See NSC 5319 for course information.

5320 Learning and Behavior Theory (Cross-listed as NSC 5320)

See NSC 5320 for course information.

5321 Developmental Psychology

Prerequisite(s): Graduate standing in psychology.

Current research and theory on development of human behavior from conception through senescence with emphasis on childhood and psychopathology of childhood.

5322 Human Engineering

Prerequisite(s): Consent of instructor.

Application of the methods and techniques of psychology to the problems of designing equipment for efficient human use and the design of man-machine systems.

5323 Biological Foundations of Behavior

An introduction to the biological mechanisms underlying behavior. A review of basic neuroanatomy, neuron function, neurotransmitters, emotional process, language, learning and

memory function. Will also review biological correlates of targeted mental disorders such as mood and anxiety disorders, schizophrenia, and developmental and cognitive disorders.

5325 Ethics in Clinical Psychology

Prerequisite(s): Psy.D. students only.

The application of current ethical and professional standards to professional practice.

5327 Family and Marital Psychotherapy

Prerequisite(s): Psy.D. students only.

Practice, theory, and research of psychological consultation with couples and families. Emphasis upon systems and interpersonal orientations.

5330 Neuropharmacology (Cross-listed as NSC 5330)

See NSC 5330 for course information.

5333 Psychological Assessment III

Prerequisite(s): PSY 5431 and 5432.

Advanced study of integrated assessment, focusing on special populations including gerontology, infant assessment, health-related assessments and additional disorder-based assessments.

5334 Health Psychology

Prerequisite(s): Psy.D. students only.

Psychosocial treatment and prevention of illness and chemical dependency and the promotion and maintenance of health.

5335 Multicultural Issues

Prerequisite(s): Psy.D. students only.

An exploration of multicultural issues in the delivery of psychological services.

5339 Social-Organizational Psychology

The application of social psychology to professional practice and organizational consultation and development.

5340 Doctoral Project in Professional Psychology I

Prerequisite(s): Psy.D. students only.

Arrangements are made for Psy.D. candidates to undertake individual scholarly projects under the direction of a clinical psychology professor. Work includes individual study and preparation of a detailed proposal for a project in clinical psychology.

5341 Doctoral Project in Professional Psychology II

Prerequisite(s): Psy.D. students only.

A continuation of PSY 5340, including the execution and completion of the doctoral project.

5344 History and Systems

Prerequisite(s): Graduate standing in psychology and consent of instructor.

History and systems in psychology with a special emphasis on philosophy of science and personality theory.

5350 Advanced Personality Psychology

A review of classic personality theory and contemporary personality psychology research.

5360 Neurophysiology (Cross-listed as NSC 5360)

See NSC 5360 for course information.

5370 Administration and Supervision

Prerequisite(s): Psy.D. students only.

Training in health care administration, supervision, consultation, program development, and evaluation.

5371 Practicum and Professional Development I

Prerequisite(s): Psy.D. students only.

Supervision, development, and evaluation of Psy.D. students in all aspects of their work.

5372 Practicum and Professional Development II

Prerequisite(s): Nine hours of PSY 5371.

Intermediate level practicum experience of supervision, development, and evaluation of Psy.D. students in all aspects of their work.

5373 Practicum and Professional Development III

Prerequisite(s): Nine hours of PSY 5372.

Advanced practicum experience. Supervision, development, and evaluation of Psy.D. students in all aspects of their work.

5374 Practicum and Professional Development IV

Prerequisite(s): Nine hours of PSY 5373.

Pre-internship practicum focusing on final practicum preparations for internship. Supervision, development, and evaluation of Psy.D. students in all aspects of their work.

5380 Multidimensional Scaling

Prerequisite(s): PSY/STA 5301.

Basic scaling theory with emphasis on metric, non-metric, and individual-differences multidimensional scaling models and methodology. Applications of scaling methods to measurement problems in the behavioral and health sciences, education, and business.

5384 Multivariate Statistical Methods

Prerequisite(s): PSY/STA 5301.

Discriminant analysis, canonical correlation analysis, and multivariate analysis of variance.

5386 Exploratory Factor Analysis

Prerequisite(s): PSY/STA 5384 and 5301.

Exploratory factor analysis with emphasis on applications in the behavioral and health sciences, education, business, including the description and use of available software.

5388 Advanced Statistical Methods

Selected issues in applied statistics.

5389 Mathematical Models in Psychology

Prerequisite(s): PSY/STA 5301.

Introduction to mathematical formulations in a wide range of psychological research including learning theory, decision and choice, reaction time, theory of signal detection, and other selected topics.

5390 Confirmatory Factor Analysis and Structural Equations Models

Prerequisite(s): PSY/STA 5301.

Confirmatory factor analysis, path analysis and structural equations models, analysis of covariance structures, least squares and maximum likelihood estimation, and application to psychological processes.

5423 Psychotherapy I

Prerequisite(s): Psy.D. students only.

Introduction to basic skills of psychotherapy including relationship skills, interviewing skills, and crisis intervention.

5426 Assessment and Intervention with Children

Prerequisite(s): Psy.D. students only and PSY 5321.

Theory and research of developmental psychopathology with emphasis on clinical assessment and treatment procedures used with childhood disorders.

5428 Group Dynamics and Psychotherapy

Prerequisite(s): Psy.D. students only.

Didactic treatment of the theory, research, and practice of work groups and group psychotherapy together with laboratory experiences in groups.

5429 Psychotherapy II: Cognitive-Behavior Therapy

Current research and theory on cognitive behavioral approaches to clinical problems and health psychology.

5430 Neuroanatomy (Cross-listed as NSC 5430)

See NSC 5430 for course information.

5431 Psychological Assessment I

Prerequisite(s): Graduate standing in psychology and consent of instructor.

Introduction to assessment principles and approaches. Administration, scoring, and interpretation of intellectual, cognitive, and neuropsychological measures. Introduction to integrated report writing.

5432 Psychological Assessment II

Prerequisite(s): Psy.D. students only.

Continued study of assessment. Introduction to objective and projective personality measures and disorder-based assessments and integration of the tests with various cognitive, intellectual, or neuropsychological measures.

5437 Social Psychology and Group Dynamics

Interrelationships of the functioning of social systems and the behavior and attitudes of individuals. Emphasis is given to the origins of various group properties and the effects of these properties upon relations among members and behavior within group experiences.

5V04 Graduate Research (Cross-listed as NSC 5V04)

1 to 3 sem. hrs.

See NSC 5V04 for course information.

5V06 Individual Studies in Psychology

1 to 3 sem. hrs.

5V24 Individualized Professional Development

1 to 6 sem. hrs.

Prerequisite(s): Psy.D. students only.

Opportunity for clinical doctoral students to develop further their clinical skills via career and growth assessment, personal growth experiences, cotherapy, and consultation. Course may be repeated.

5V51 Supervised Teaching (Cross-listed as NSC 5V51)

1 to 3 sem. hrs.

See NSC 5V51 for course information.

5V71 Selected Topics in Psychology

1 to 3 sem. hrs.

5V85 Consulting, Research and Teaching in Statistics

1 to 3 sem. hrs.

Statistics program. Supervised experience in statistical research, consulting, and teaching. Course may be repeated each semester.

5V96 Research Methods in Experimental Psychology

Selected laboratory methods and techniques in Experimental Psychology. May be repeated. Maximum credit of three hours.

5V99 Thesis (Cross-listed as NSC 5V99)

1 to 3 sem. hrs.

See NSC 5V99 for course information.

6V01 Clinical Internship**1 to 6 sem. hrs.**

Course open only to fourth-year clinical psychology doctoral students who are off campus on internship. Must be taken for three semesters.

6V99 Dissertation (Cross-listed as NSC 6V99)**1 to 12 sem. hrs.**

See NSC 6V99 for course information.

QUANTITATIVE BUSINESS ANALYSIS (QBA)**5131 Quantitative Methods for Decision Making: Part I**

Prerequisite(s): Admission to MBA program.

Today's managers operate within the constraints of highly competitive markets. To plan effectively under these circumstances requires both rigorous analytical tools and a sophisticated sense of how to balance the demands of oft-times conflicting constituencies. QBA 5131, using a mix of theory and case studies, enables students to develop a rich portfolio of tools to assist them in the planning process. The course seeks to develop students' technical skills in sampling, data analysis, and risk management tools essential to effective planning.

5132 Quantitative Methods for Decision Making: Part II

Prerequisite(s): QBA 5131.

In today's highly competitive markets, implementing decisions effectively requires both rigorous analytical tools and a sophisticated sense of how to balance the demands of oft-times conflicting constituencies. QBA 5132, using a mix of theory and case studies, enables students to develop tools essential to effective implementation. The course seeks to prepare students to use analytical tools including correlation analysis, regression analysis, and time series analysis.

5133 Quantitative Methods for Decision Making: Part III

Prerequisite(s): QBA 5132.

To effectively adapt to today's ever changing competitive environment requires both rigorous analytical tools and a sophisticated sense of how to balance the demands of conflicting constituencies. QBA 5133, using a mix of theory and case studies, enables students to develop a set of tools to help them adapt to an organization's changing needs. The course seeks to develop students' technical skills in linear programming, quality control and improvement, and experimental design.

5215 Statistical Analysis

Prerequisite: Acceptance into the executive MBA program.

Application of statistical reasoning and methods to business-oriented problems. Topics include descriptive statistics, sampling distributions, confidence intervals, hypothesis testing, simple and multiple regression, quality control, and nonparametric methods.

5330 Evidence Based Decision Making

Statistical techniques and their applicability to business decision making. Topical coverage includes multiple regression, analysis of variance, factor analysis, discriminant analysis, cluster analysis, and multidimensional scaling.

REAL ESTATE (RE)**5330 Seminar in Real Estate Valuation (Cross-listed as FIN 5330)**

Valuation concepts and techniques necessary to appraise real estate. Topics include theoretical valuation models, regression-based models, the cost approach, market feasibility studies, and urban-growth models. Case studies require application of statistical techniques.

5V98 Special Studies in Real Estate**1 to 6 sem. hrs.**

This course may be taken for one to six semester hours of credit.

RECREATION AND LEISURE SERVICES (RLS)**4395 Principles of Church Recreation**

History, philosophy, objectives, and administration of recreation in the church and how it relates to the total ministry of the church. It will include an overview of various areas of church recreation and an investigation of leisure and its value in a church setting.

5301 Leadership and Supervision of Outdoor Adventure Activities

Leadership of outdoor adventure activities in a variety of leisure settings with focus on liability, supervision, and management standards. (Lab fee required.)

5376 Facility and Event Management (Cross-listed as HP 5376)

See HP 5376 for course information.

5377 Issues and Trends in Human Performance and Sport Management (Cross-listed as HP 5377)

See HP 5377 for course information.

5379 Research Methods in Health, Human Performance, and Recreation (Cross-listed as HED 5379 and HP 5379)

See HP 5379 for course information.

5391 Administrative Practices and Issues in Leisure Services

Awareness of legal, legislative, political, organizational, policy, planning, evaluation, and managing human resources and relationships in leisure service programs considering professional trends and directions.

5392 Leisure Well-Being in Later Life (Cross-listed as RED 5392 and SOC 5392)

Focus on how to create leisure opportunities to contribute to well-being of individuals in later years. Students will be involved in developing innovative approaches to leisure experiences for senior adults. Lab experience required.

5396 Administrative Practices and Issues in Recreation Therapy

Prerequisite(s): Foundation of therapeutic recreation; or consent of instructor.

Financial, personnel, reimbursement, legal, legislative standards of practice and criteria applied during operation of clinical and community programs and services with persons with disabilities

5V70 Special Problems in Health, Human Performance, and Recreation (Cross-listed as HP 5V70 and HED 5V70)**1 to 6 sem. hrs.**

See HP 5V70 for course information.

5V74 Professional Literature Seminar in Health, Human Performance and Recreation (Cross-listed as HED 5V74 and HP 5V74)**1 to 6 sem. hrs.**

See HP 5V74 for course information.

5V75 Seminar in HHPR (Cross-listed as HED 5V75 and HP 5V75)**1 to 3 sem. hrs.**

See HP 5V75 for course information.

5V90 Internship (Cross-listed as HED 5V90 and HP 5V90)**1 to 6 sem. hrs.**

See HP 5V90 for course information.

- 5V94 Practicum in HHPR (Cross-listed as HED 5V94 and HP 5V94)** **1 to 3 sem. hrs.**
See HP 5V94 for course information.
- 5V99 Thesis (Cross-listed as HED 5V99 and HP 5V99)** **1 to 6 sem. hrs.**
See HP 5V99 for course information.

RELIGION (REL)

BIBLICAL STUDIES

4302 Archaeology and the Ancient Near East (Cross-listed as ARC 4302)

Prerequisite(s): REL 1310 and 1350; and upper-level standing.

Ancient Near East, its history, culture, and religion as evidenced through archaeological excavation and the interpretation of archaeological data. The focus of the course will be upon the Biblical period.

4305 Topics in Old Testament Studies

Prerequisite(s): REL 1310 and 1350; and upper-level standing.

A designated book, group of books, or major theme from the Old Testament. The course may be taken up to three times when content differs.

4315 Topics in New Testament Studies

Prerequisite(s): REL 1310 and 1350; and upper-level standing.

A designated book, group of books, or major theme from the New Testament. The course may be taken up to three times when content differs.

4V06 Palestinian Archaeology

1 to 6 sem. hrs.

Prerequisite(s): REL 1310 and 1350; and upper-level standing.

Archaeology of Palestine through readings, lectures, travel to excavated sites in Palestine, and participation in excavation at a selected site of major importance in Palestine. May be repeated once for credit.

5101 Old Testament Colloquium

Prerequisite(s): Ph.D. students only.

A seminar in which doctoral students concentrating in Biblical Studies meet with the Old Testament faculty for written presentations and discussion of guided readings in classical and contemporary studies in the discipline. May be taken six times for credit.

5111 New Testament Colloquium

Prerequisite(s): Ph.D. students only.

A seminar in which doctoral students concentrating in Biblical Studies meet with the New Testament faculty for written presentations and discussion of guided readings in classical and contemporary studies in the discipline. May be taken six times for credit.

5301 Contemporary Issues in Old Testament Study

A selected major issue in contemporary Old Testament scholarship. The course may be taken up to three times when content differs.

5302 Seminar in the Torah

A designated portion of the Old Testament scriptures chosen from the Torah. Attention will be given to critical and theological problems, relevant bibliography, contributions of significant scholars, and contemporary issues in interpretation. The course may be taken up to three times when content differs.

5303 Seminar in the Former Prophets

A designated portion of the Old Testament scriptures chosen from the Former Prophets. Attention will be given to critical and theological problems, relevant bibliography, contributions of significant scholars, and contemporary issues in interpretation. The course may be taken up to three times when content differs.

5304 Seminar in the Latter Prophets

A designated portion of the Old Testament scriptures chosen from the Latter Prophets. Attention will be given to critical and theological problems, relevant bibliography, contributions of significant scholars, and contemporary issues in interpretation. The course may be taken up to three times when content differs.

5305 Seminar in the Writings

A designated portion of the Old Testament scriptures chosen from the Writings. Attention will be given to critical and theological problems, relevant bibliography, contributions of significant scholars, and contemporary issues in interpretation. The course may be taken up to three times when content differs.

5308 Old Testament Theology

The history and nature of the discipline Old Testament Theology focusing on methodology, personalities, major works, and central themes.

5309 Selected Documents from the Hebrew Scriptures (Cross-listed as HEB 5309)

See HEB 5309 for course information.

5311 Contemporary Issues in New Testament Study

A selected major issue in contemporary New Testament scholarship. The course may be taken up to three times when content differs.

5312 Seminar in the Pauline Epistles

A designated portion of the New Testament scriptures chosen from the Pauline Epistles. Attention will be given to critical and theological problems, relevant bibliography, contributions of significant scholars, and contemporary issues in interpretation. The course may be taken up to three times when content differs.

5313 Seminar in the Synoptic Gospels

A designated portion of the New Testament scriptures chosen from the Synoptic Gospels. Attention will be given to critical and theological problems, relevant bibliography, contributions of significant scholars, and contemporary issues in interpretation. The course may be taken up to three times when content differs.

5314 Seminar in the Johannine Literature

A designated portion of the New Testament scriptures chosen from the Johannine Literature. Attention will be given to critical and theological problems, relevant bibliography, contributions of significant scholars, and contemporary issues in interpretation. The course may be taken up to three times when content differs.

5315 Seminar in Acts, Hebrews, and the General Epistles

A designated portion of the New Testament scriptures chosen from Acts, Hebrews, or the General Epistles. Attention will be given to critical and theological problems, relevant bibliography, contributions of significant scholars, and contemporary issues in interpretation. The course may be taken up to three times when content differs.

5317 Seminar in New Testament Greek (Cross-listed as GKB 5317)

Hellenistic Greek based upon the translation and exegesis of selected portions of the New Testament and other early Christian literature. Attention will be given to grammar, lexicography, and textual criticism. The course may be taken up to three times when content differs (a student may earn a maximum of six hours credit for REL 5317 and three hours credit for GKB 5317).

5318 New Testament Theology

The history and nature of the discipline New Testament Theology, focusing on methodology, personalities, and major works.

5323 The History of Ancient Israel

Prerequisite(s): M.A. or Ph.D. standing in the department.

A graduate seminar focusing on ancient Israelite history and historiography. The course will involve a thorough overview of the history of Syria-Palestine and a rigorous examination of the interests and intentions of the ancient writers. While archaeological and geographic evidence will to some extent inform the subject matter of the course, the primary emphasis will be on information gained from the written sources, both biblical and epigraphic.

5324 Syro-Palestinian Archaeology

Prerequisite(s): M.A. or Ph.D. standing.

A graduate seminar focusing upon the archaeology of Syria and Palestine from the Early Bronze Age through the Persian Period (ca. 3300-334 B.C.E). Emphasis will be given to the use and interpretation of archaeological data with special reference to the Old Testament.

HISTORICAL STUDIES**4331 History of Roman Catholicism**

Prerequisite(s): REL 1310 and 1350; and upper-level standing.

Historical and theological developments of Roman Catholicism from the patristic period to the present. Special attention will be directed toward individuals, movements, and councils.

4332 History of Eastern Orthodoxy

Prerequisite(s): REL 1310 and 1350; and upper-level standing.

Historical and theological developments of Eastern Orthodoxy from the patristic period to the present, with special emphasis given to developments since the Second Council of Nicea.

4333 History of Protestantism

Prerequisite(s): REL 1310 and 1350; and upper-level standing.

History of Protestant Christianity from the precursors of Martin Luther to the present with emphasis upon the sixteenth-century Reformation, the various confessional traditions and major theological issues, the major developments affecting modern Protestantism, and the present state and future of Protestantism. The study will focus on Europe and North America.

4334 Radical Christianity

Prerequisite(s): REL 1310 and 1350; and upper-level standing.

A study of non-establishment Christianity, including early Christian and medieval heresy, Reformation radicals, Puritan dissenting traditions, the free church traditions, and religious innovation in the American experience. The course may be repeated once when content differs.

4335 Baptist Life and Thought

Prerequisite(s): REL 1310, 1350 and upper-level standing.

Baptist history and thought to the present, including the outreach of Baptist missions. The development of basic doctrine and polity within their historical settings, with special attention to biographies of important Baptist men and women.

4336 Introduction to Religion in America (Cross-listed as AMS 4336)

Prerequisite(s): REL 1310 and 1350; and upper-level standing.

American religious heritage with emphasis on its organization, expansion, thought, worship, and impact on American society.

4338 Women in Religion in America (Cross-listed as AMS 4338)

Prerequisite(s): REL 1310 and 1350; and upper-level standing.

The role of women in religion in America from colonial times to the present.

4340 Christian Missions

Prerequisite(s): REL 1310 and 1350; and upper-level standing.

Biblical basis for missions, the expansion of Christianity, the encounter with non-Christian traditions, and contemporary rationales for Christian missions.

4343 Topics in Islam

Prerequisite(s): REL 1310 and 1350; and upper-level standing.

The tenets, doctrines, and sects of Islam, including the religious underpinnings of Islamic society. Field trip required. The course may be repeated once with a different topic.

4346 Topics in Asian Religions (Cross-listed as AST 4346)

Prerequisite(s): REL 1310 and 1350; and upper-level standing.

The basic history, beliefs and practices of religions in Asia. Course may highlight a specific religious tradition. The course may be repeated once with different topic.

4348 Modern Judaism

Prerequisite(s): REL 1310, 1350 and upper-level standing.

Trends in 20th Century in Jewish thought, including Zionism, post-Holocaust thought, movements of Jewish renewal, and ecumenical relations.

4360 Religion and the Body Politic (Cross-listed as CHS 4360, HIS 4360, and PSC 4360)

See CHS 4360 for course information.

5131 Historical Area Colloquium

Prerequisite(s): Doctoral students only.

A seminar in which doctoral students concentrating in the Historical Area meet with the Historical Area faculty for written presentations and discussions of guided readings in classical and contemporary studies in the discipline. May be taken six times for credit.

5331 History of Ancient Christianity

Patristic literature up to 500 CE. Selections for study will be made from apocryphal, apologetic, polemical, doctrinal and biographical types of literature. Careful attention will be given to at least one of the following ecclesiastical histories: Eusebius of Caesarea, Socrates, Sozomen, and Theodoret. The course may be taken up to three times when content differs.

5332 History of Medieval Christianity

Eastern and western medieval Christianity from the fall of Rome to the fall of Constantinople, with particular emphasis on such topics as the papacy, monasticism, the Carolingian Renaissance, the separation of eastern and Western Catholicism, scholasticism, and medieval sectarianism. The course may be taken up to three times when content differs.

5333 History of the Continental Reformation

Lutheran, Reformed and the Roman Catholic aspects of the sixteenth-century Reformation in Europe.

5334 History of the English Reformation

The Reformation as it developed in England with particular attention to the background of the English church in the late Middle Ages; the influence of Wycliffe, Tyndale, and the English Bible; the progress of reform under the Tudors and the Stuarts; the rise of Puritanism and nonconformity; the Civil Wars; and toleration. The course may be taken up to three times when content differs.

5335 Modern European Christianity

History of European Christianity since the Reformation. The course may be taken up to three times when content differs.

5336 History of American Christianity (Cross-listed as AMS 5336)

History of American Christianity from pre-Columbian Christian settlements to the present,

with particular emphasis on major movements and problems such as Puritanism, religious liberty, revivalism, westward expansion, the rise and growth of denominations, and post-Civil War trends. The course may be taken up to three when content differs.

5337 Baptist History

Source materials of Baptist history and polity with particular attention devoted to Baptist origins, development, theological positions, leaders, and current trends. The seminar approach will be followed, and the course may be taken up to three times when content differs.

5339 Seminar on Church and State in the United States (Cross-listed as CHS 5339, HIS 5339, and PSC 5339)

See CHS 5339 for course information.

5340 Seminar on Religion, Law, and Politics (Cross-listed as CHS 5342, PHI 5342, and PSC 5342)

See CHS 5342 for course information.

5341 Seminar on Church-State Relations in the Modern World (Cross-listed as CHS 5341 and PSC 5341)

See CHS 5341 for course information.

5342 Native American Religions (Cross-listed as AMS 5342)

Investigation of religion within the life of Native Americans past and present. The seminar will explore spirituality, religious themes and practices, and social issues in the context of Native American history and culture.

5343 Contemporary African Religions

African perspectives of traditional beliefs and practices within the contexts of contemporary changes in African societies, the emergence of new religions, and the impact of indigenous churches on the Christian faith.

5344 History of Comparative Religion

Historical, critical, and comparative investigation of the religions of the world. Special attention will be given to the methods and procedures which have contributed to the development of the discipline from the nineteenth century to the present.

5345 Christianity and Other Religions

Nature of religion, the Christian interpretation of religion, and the relationship of Christianity to other religions, as seen by representative thinkers, past and present, in America, Asia, and Europe.

5346 Judaism and Islam

Two Near Eastern faiths-their beliefs, historical relationship to Christianity, and interpretation of the Christian Faith.

5347 Religions of India

Brahmanic, mystical, and popular traditions in India from the Vedas to modern times.

5348 Judaism in the Post-Holocaust Era

A thematic treatment of contemporary Judaism as it has been affected by the Jewish experiences of the Holocaust during the Third Reich of Nazi Germany. The course will include attention to post-Holocaust Jewish writers and to contemporary Jewish-Christian dialogue.

5349 The Radical Reformation

An in-depth look at the Radical Reformation, also called the Believers' Church movement and the Anabaptist tradition. Examination of key primary texts to illustrate the diverse and developing theology of these reformers and their offspring, plus their institutional manifestations. Research essays and bibliographic work required.

5361 Seminar on Religion and Politics in America (Cross-listed as CHS 5361, HIS 5361, and PSC 5361)

See CHS 5361 for course information.

5372 Church and State During the Reformation Era (Cross-listed as CHS 5372 and HIS 5372)

See CHS 5372 for course information.

RESEARCH**4300 Special Topics in Religion**

Prerequisite(s): REL 1310 and 1350; and upper-level standing.

Special topics of study in the discipline of religion, especially in areas not covered in the regular curriculum. The course may be repeated once when content differs.

5399 Religion Colloquy

Prerequisite(s): Twenty-four semester hours of graduate course work.

Required as a co-requisite for participation in the Teaching Fellows Program. The colloquy will address a broad range of institutional and pedagogical issues related to the teaching of religious traditions and especially the Christian tradition in an academic context.

5V00 Special Studies in Religion

1 to 3 sem. hrs.

Special research projects that are needed in the students' graduate programs, but that are unavailable in the regular curriculum. The research will be individualized for the students and under the direct supervision of the professor. The course may be taken up to three times.

5V95 Special Studies in Christian Ethics

1 to 4 sem. hrs.

Prerequisite(s): Consent of instructor.

Special studies in Christian ethics not available in the regular curriculum but needed in the students' programs of study. The study will be individualized for the students and under the direct supervision of the professor.

5V99 Thesis

1 to 3 sem. hrs.

Students register for the thesis and receive credit when the thesis is finally approved.

6100 Problems in Research

Research for doctoral students who have completed their required class work but are not yet registered for REL 6V99. The course may be repeated.

6V99 Dissertation

1 to 9 sem. hrs.

Supervised research for the doctoral dissertation. A total of at least nine semester hours is required for the completion of the dissertation.

THEOLOGICAL STUDIES**4350 Augustine's Theological Development (Cross-listed as CLA 4350)**

Prerequisite(s): REL 1310 and 1350; and upper-level standing.

Selected writings of Augustine that focus on such themes as the problem of evil, scriptural hermeneutics, his theological anthropology, and his Trinitarian theology.

4351 The Doctrine of Revelation

Prerequisite(s): REL 1310 and 1350; and upper-level standing.

The issues of revelation, inspiration, authority, inerrancy, and Biblical interpretation. Both modern and historical positions will be discussed. The contemporary crisis over the doctrine of inspiration and inerrancy will be examined.

4352 History of Christian Theology I

Prerequisite(s): REL 1310, 1350 and upper-level standing.

The major developments of the first eight centuries of Christian theology from the post-Apostolic period to the last of the seven ecumenical councils in 787 CE, with special attention to the theological controversies leading to the formation of the Christian community's central doctrines.

4353 History of Christian Theology II

Prerequisite(s): REL 1310 and 1350; and upper-level standing.

The major developments of Christian theology, primarily in the West, from the ninth through the mid-seventeenth centuries with emphasis on the great theological systems of the Middle Ages and the theological aims of the sixteenth-century reforming movements.

4354 History of Christian Theology III

Prerequisite(s): REL 1310 and 1350; and upper-level standing.

The major developments of Christian theology in the modern period from the late seventeenth century to the present, emphasizing the rise of modern historical and philosophical perspectives which challenge traditional Christian claims.

4388 Christian Literary Classics (Cross-listed as ENG 4388)

Prerequisite(s): REL 1310 and 1350; and upper level standing.

A study of the various ways in which theological and imaginative excellence is displayed in such classic Christian authors as Augustine, Dante, Herbert, Bunyan, and Hopkins.

4390 Contemporary Christian Ethics Theory

Prerequisite(s): REL 1310 and 1350; and upper-level standing.

Designated theme, issue, or person in contemporary Christian ethical theory. The course may be taken up to three times when content differs.

4393 Environmental Ethics (Cross-listed as AMS 4393 and ENV 4393)

Prerequisite(s): REL 1310 and 1350; and upper-level standing.

Moral perspectives which inform and support environmental activity in our society. The primary focus will be on the various interpretations of how humanity is properly related to its environment and the consequences of these interpretations for the environmental action of individuals and social institutions.

4394 Religion and Older Persons

Prerequisite(s): REL 1310 and 1350; and upper-level standing.

Relationship between religion and the lives and needs of older persons. This will include an examination of the attitudes toward and treatment of older persons in the Judeo-Christian and other selected religious traditions.

4395 Bioethics (Cross-listed as MH 4395)

Prerequisite(s): REL 1310 and 1350 or BIC 3358; and upper level-standing.

Ethical issues in the fields of health care and other life sciences. Some of the issues studied include behavior modification, abortion, euthanasia, health care delivery, human experimentation, and genetic modification. A major research project on a selected issue approved by the professor will be required of each student.

4397 Race, Racism, and Religion in America

Prerequisite(s): REL 1310, REL 1350; and upper-level standing.

Survey of dominant theological perspectives on race and histories of racism in American Christianity, as well as religious resources for racial reconciliation.

5151 Theology Colloquium

Prerequisite(s): Ph.D. students only.

A seminar in which doctoral students concentrating in theology will meet with faculty for written presentations and discussions of guided readings in patristic, medieval, reformations, and modern texts in theology and related fields. May be taken six times for credit.

5338 Seminar on Church and State in Modern Europe (Cross-listed as CHS 5338, HIS 5338, and PHI 5338)

See CHS 5338 for course information.

5350 Issues and Themes Within Patristic Thought

Knowledge of French and German. Formulation of a Christian doctrine of God came to a crisis in the fourth century when a series of conflicts over the relation of the Father and Son erupted and absorbed the intellectual energies of the Church for almost a century. As a result of the so-called "Arian controversy," various points of Trinitarian and Christological doctrine became canonized for defining orthodoxy. These have functioned as norms for all subsequent doctrinal and exegetical development, profoundly shaping the theological identity of the Church. Moreover, in the last two decades of this century, scholarship has been greatly altered by a number of changes in the interpretation of major figures and doctrinal development in the fourth century such that a significant amount of re-writing of historical theology is currently taking place. It is clear that the Nicene- "Arian" conflicts went through distinct stages, and were more complicated and less compartmentalized than presented in many histories of the period.

5351 Medieval Theology

The thought and practice of Christianity in the Middle Ages. Select major texts will be read, either in a format that examines the works of various writers, or with a focus on one major theologian (e.g., Anselm, Aquinas) or theme (e.g., monasticism, scholasticism). A reading knowledge of Latin is preferable, and either French or German is required. Course may be taken up to three times when content differs.

5353 Nineteenth-Century Theology

Major developments of nineteenth and early twentieth-century theological liberalism. One or more selected major theologians or movements will be examined: for example, Schleiermacher, Ritschl, the Back to Jesus Movement, the Biblical-Critical Movement, the Social Gospel, and Rational Theism. Effort will be made to determine their relevance for contemporary theology.

5354 Neo-Liberal Theology and Its Alternatives

The twentieth-century theological movement called Neo-Liberalism, as well as the major alternatives posed by Protestant, Catholic, and Orthodox theologians whose work centers on the church rather than culture.

5356 Contemporary Systematic Theologies

Systematic theology as a genre of theology within the Christian tradition. Emphasis will be placed on systematic theologies written after Barth and Tillich. Analysis of these works will focus on questions of method as well as content. Special attention will be paid to issues related such developments as liberation and feminist theology and postmodern thought.

5357 The 20th Century Catholic Renaissance

The resurgence of Roman Catholic theology and literature in the previous century, as well as its continuing relevance for our time.

5358 Seminar on Liberation Theology

Various liberation theologies that have emerged over the last decades in Latin America, Africa, Asia, and North America. Included will be the pioneering work of James Cone, Gustavo Gutierrez, Rosemary Ruether and the theological and political schools of thought that have followed and extended their analyses.

5360 Contemporary Theological Problems

Important theological problems which confront the theologian and the Christian community today. Problems such as faith and science, theological language, evil, theology and history, and Christian selfhood and modern psychology studied. Both historical and contemporary attempts to deal with the problems will be considered. The course may be taken up to three times when content differs.

5362 Christian Anthropology

Meaning and relevance of the Christian understanding of humanity for contemporary existence in the light of Biblical, classical, ancient, and modern interpretations.

5363 Christology

Historical development and theoretical systematization of major Christological themes, giving special attention to interrelation of materials from Biblical studies, history of dogma, and systematic theology.

5369 American Civil Religion (Cross-listed as AMS 5369, CHS 5369, and SOC 5369)

See CHS 5369 for course information.

5393 Contemporary Problems in Christian Ethics

A research seminar focusing on ethical problems in the contemporary society and the resources available in the Judeo-Christian traditions for analyzing these problems. Students will work on a specific problem or problems. Emphasis will be placed on developing technique and discovering the resources available for ethical analysis. The course may be taken up to three times when content differs.

RISK MANAGEMENT AND INSURANCE (RMI)**5330 Seminar in Employee Benefit Planning**

The rationale, design, implementation, and evaluation of employee benefit plans. Emphasis on employer-sponsored plans to provide benefits for death, medical and dental expenses, disability, and retirement; insurance and self-insurance funding arrangements; the taxation of employee benefits; legal requirements; integration with public programs and individually purchased insurance; labor union influences; and contemporary problems and issues. Consideration of new types of employee benefits, as well as such traditional benefits as paid vacations, sick leave, educational assistance, and other aspects of total compensation. Case studies are used to illustrate the process of balancing employer objectives, employee needs and desires and cost considerations.

5335 Seminar in Integrated Business Risk Management (Cross-listed as FIN 5335)

A study of business risk management, recognizing the relationship between risk management and the overall goals of the firm, through an integrated approach that combines the concepts and tools from both the insurance and the financial risk management disciplines. Emphasis is placed on the identification, evaluation, and management of corporate risks, defined broadly to include both operating and financial risks. Specific topics include traditional hedging strategies as well as techniques such as leveraging, post-loss financing, contingent financing, and diversification.

SLAVIC AND EAST EUROPEAN STUDIES (SEES)**4363 Traditional Music and Culture in Europe (Cross-listed as MUS 4363)**

See MUS 4363 for course information.

SOCIOLOGY (SOC)**4320 Culture, Personality and Identity (Cross-listed as ANT 4320)**

See ANT 4320 for course information.

4340 Ethnicity and Aging (Cross-listed as GRT 4340 and SWO 4340)

See SWO 4340 for course information.

4393 Sociology of Aging (Cross-listed as GRT 4393 and SWO 4393)

Prerequisite(s): SOC 1305 and 3305 or consent of instructor.

Impact of aging upon individuals and society, as well as the reactions of individuals and society to aging. Social gerontology is the principal focus of attention of the course.

4395 Aging and Mental Health (Cross-listed as GRT 4395 and SWO 4395)

Prerequisite(s): SOC 4393 or PSY 4355 or consent of instructor.

Mental health needs and related problems of aging individuals with considerable discussion of approved mental health treatments for such persons.

5301 Social Deviancy

Deviance as a process and deviants as societal problems. The major theoretical perspectives are examined and specific types of deviants are discussed.

5303 Social Measurement and Causal Modeling

Prerequisite(s): SOC 1305, 2301 and 3402.

Advanced multivariate statistical techniques; causal modeling; problems of research design, validity, and reliability. The course also involves the utilization of social science computer programs in the analysis of large-scale survey data.

5305 Multicultural Societies

Prerequisite(s): Consent of instructor.

Multicultural societies will be examined with respect to cultural histories as well as modern problems. Special attention will be given to the cultural complexity of the continental United States.

5310 Social Demography

A survey of demographic change, issues, and methods as they impact our social world. Emphasis is on the social and cultural aspects of demography, as well as the impact of the changing population in society.

5312 Social Science Data Analysis (Cross-listed as PSC 5312)

Prerequisite(s): SOC 1305, 2301 and 3402; or equivalents.

This is a data-intensive course designed to acquaint students with the wide variety of available data types and sources for social science research. Students learn to access, analyze, and critique these various data types. In analyzing these data, we begin with simple univariate distributional statistics and progress through bivariate regression and correlation.

5320 Seminar on the Community

Theories of community structure and dynamics, methods community analysis, and techniques for community change.

5325 Seminar on Complex Organizations

Structure and functioning of large-scale organizations. Relevant theory and research are critically evaluated in the areas of organizational leadership, authority, communication, goals, and change.

5326 Seminar in Social Psychology

Various applications of social psychological research methodologies. A class project and/or individual research projects (including literature review, data collection and analysis, and conclusions) will be completed.

5330 Evaluative Research (Cross-listed as GRT 5330)

Conceptual, methodological, and administrative aspects of program evaluation. Problems of translating research findings into policies and programs are explored.

5332 The Sociology of Health: Health Delivery Systems (Cross-listed as GRT 5332)

Special health problems of the aged person, with particular stress on related social factors and

the strengths and weaknesses of existing health care systems. Alternate models for meeting the health needs of the aged are considered.

5336 The Family in Later Life (Cross-listed as SWO 5336 and GRT 5336)

See SWO 5336 for course information.

5341 Introduction to Sociology of Religion

Acceptance into the graduate program. Introduction to the main theories and empirical studies in the sociology of religion.

5342 Data Sources and Publishing in the Sociology of Religion

Prerequisite(s): SOC 5341; or consent of the instructor.

Introduction to the main religion data sources in the country, accompanied by training in how to publish religious research.

5343 Theory in the Sociology of Religion

Prerequisite(s): SOC 5341; or consent of instructor.

In depth analysis of the major social theories of religion.

5354 Seminar in Family Sociology

Review of theoretical frameworks used in the study of family sciences. Emphasis is on classical and emerging approaches and the use of theory in research and program development.

5357 Seminar in Comparative Sociology

Prerequisite(s): SOC 6307 and 6314.

This in-depth introduction to comparative sociology begins with a philosophical discussion of what constitutes comparative research and the criteria for social causation. Next, it examines the strengths and weaknesses of various theoretical approaches to comparative sociology. Third, it analyzes important contemporary comparative studies.

5369 American Civil Religion (Cross-listed as AMS 5369, CHS 5369, and REL 5369)

See CHS 5369 for course information.

5374 Sport in the Social Context (Cross-listed as HP 5374)

See HP 5374 for course information.

5381 Advanced Research Methods

Research projects under direct supervision of a faculty member. Although specific methodological areas will vary by project, content analysis, controlled experimental design, sampling, survey analysis, computer skills, and statistical techniques, will be emphasized.

5391 Advanced Sociological Theory

Prerequisite(s): SOC 4391; or consent of instructor.

Seminar on recent developments in sociological theory. Discussions will include critical evaluation of major theoretical systems, the development and use of paradigms, and the process of theory construction.

5392 Leisure Well-Being in Later Life (Cross-listed as RED 5392 and RLS 5392)

See RLS 5392 for course information.

5395 Sociopsychological Aspects of Counseling Adults (Cross-listed as GRT 5395)

Prerequisite(s): SOC 4393 or PSY 4355 and SOC 4395; or consent of instructor.

Adult development and socialization from the perspective of counseling interventions. Opportunities to develop counseling skills with middle-age and older persons will be provided along with appropriate supervision.

5397 Methods in Aging Research (Cross-listed as GRT 5397 and SWO 5397)

See SWO 5397 for course information.

5V28 Research Problems in Sociology**1 to 3 sem. hrs.**

Prerequisite(s): Consent of instructor.

Research problem in a selected area of sociology. The written report must be approved by the faculty member supervising the student and one additional member of the department.

5V71 Special Topics in Sociology**1 to 3 sem. hrs.**

Prerequisite(s): Consent of instructor.

Designed for students who wish to study with a professor in an area of sociology not covered by a formal course. Students will contract with professor regarding study and number of semester hours.

6083 Proseminar in the Sociology of Religion

Prerequisite(s): Enrolled in Department of Sociology's Ph.D. Program.

This seminar aides students in professional development. Weekly speakers discuss current research, publishing, teaching, and important topics/events in the sociology of religion. The course is pass/fail and required of all students pursuing a Ph.D. with an emphasis in sociology of religion.

6301 Focus Group Research

Prerequisite(s): Consent of instructor.

Students will apply information gathered from a review of the current literature to conduct a focus group research project under the supervision of the instructor. Students will conduct all phases of a focus group research project including design, sampling, administration and analysis.

6303 Telephone Surveys

Prerequisite(s): Consent of instructor.

Students will acquire knowledge of telephone survey techniques and use this information to conduct a telephone survey under the supervision of the instructor. Special emphasis will be given to issues of non-contact, refusals, demographic and behavioral screens, and random digit versus add a digit techniques.

6307 Statistical Methods for Survey Research

Prerequisite(s): Consent of instructor.

An introduction to several multivariate statistical techniques appropriate for the analysis of discrete qualitative social science survey data measured at the nominal level of measurement. Emphasis in the course is on logic regression, log linear analysis and latent class/latent structure analysis. Application to major social science data sets will be made.

6310 Mail Surveys

Prerequisite(s): Consent of instructor.

Students will design, conduct, and analyze a mail survey in this course. Special emphasis will focus on questionnaire construction, question design, sampling techniques, cover letters and research identity, and other special problems unique to self-administered surveys.

6314 Advanced Quantitative Analysis for Sociology

Prerequisite(s): SOC 5312 and 6307; or equivalent.

This course covers cutting-edge data analysis techniques used in the top-tier sociology journals.

6317 Community Spatial Analysis

Prerequisite(s): SOC 5312.

Geographic information systems (GIS) and spatial modeling techniques are applied to contemporary community issues and social problems such as inequality, poverty, housing, employment, economic development, demographics, and transportation. Particular emphasis is placed on government and other sources of current data for community analysis.

6318 Sampling Techniques

Prerequisite(s): Three hours of statistical methods.

Planning, execution, and analysis of sampling from finite populations. Simple random, stratified random, ratio, systematic, cluster, sub sampling, regression estimates, and multi-frame techniques are covered.

6325 Needs Assessment

Prerequisite(s): Consent of instructor.

An introduction to community needs assessment in which available data (e.g. crime rates, poverty levels) and newly created data (e.g. elite surveys, program inventories) are combined to estimate various levels and types of community needs. Emphasis is on all facets of needs assessment including need definition, data selection, data creation, analysis, interpretation and presentation.

6331 The Sociology of Religiosity

Prerequisite(s): SOC 5341 or consent of instructor; acceptance into post-Master's program.

Introduction to the measurement and definition of religiosity.

6332 The Sociology of Religious Organizations

Prerequisite(s): SOC 5341; or consent of instructor; acceptance into post-Master's program.

Analysis of how religious organizations change, including membership dynamics, authority systems, and congregational cultures.

6333 Religion, Politics, and Society (Cross-listed as CHS 6333)

See CHS 6333 for course information.

6334 The Sociology of Religious Deviance

Prerequisite(s): SOC 5341; or consent of instructor; acceptance into post-Master's program.

Analysis of deviant religious groups with an emphasis on defining religious deviance and explaining group membership.

6335 Religion, Morality and Social Change

Prerequisite(s): SOC 5341; or consent of instructor; acceptance into post-Master's program.

Analysis of the role of religion in creating, sustaining and challenging the moral order of societies, and how cultural change can affect religion's moral impact.

6336 Religion, Race and Gender

Prerequisite(s): SOC 5341; or consent of instructor; acceptance into post-Master's program.

Analysis of the interconnections of religion with race and gender with an emphasis on how race, ethnicity and gender have shaped religion and been shaped by religion.

6340 Face to Face Surveys

Prerequisite(s): Consent of instructor.

Students will develop and conduct a face-to-face survey under the direction of the instructor. In this process, students will train interviewers in the interpersonal dynamics of interviewing which comply with current federal guidelines concerning the protection of human subjects. In addition, the issues of dialects, illiteracy, and multicultural awareness will be addressed.

6345 Sociology of Regional Processes

Prerequisite(s): SOC 5391; or equivalent; or consent of instructor.

This course examines in detail sociological theories of regional growth and development. Students will gain a working knowledge of the core assumptions of each perspective along the structure-agency continuum. In addition, students will do significant readings of empirical research in this field, and conduct an original empirical study.

6350 Seminar in Human Resource Management (Cross-listed as MGT 5336)

See MGT 5336 for course information.

6360 Demographic Techniques

Prerequisite(s): Consent of instructor.

An introduction to the various models of demographic projection and modeling including linear regression, ratio techniques and cohort component. Emphasis is on mastery of base data acquisition and model construction to determine demographic trends and predict population levels, crime rates and disease patterns.

6371 Micro-Criminology

This course focuses on social psychological perspectives on the etiology of crime and delinquency by examining micro-criminological theories and research.

6391 Grant Writing and Proposal Development

Provides intensive exposure to the technical and political aspects of grant writing and proposal development. Emphasis is placed on defining proposal ideas to match funding sources, researching private foundations, corporations and government funding agencies, and developing successful proposals. Participants will prepare a grant proposal during the course, which will be submitted to an appropriate private or public agency.

6V37 Special Topics in the Sociology of Religion**1 to 3 sem. hrs.**

Prerequisite(s): Acceptance into post-Master's program. Consent of instructor.

Analysis of special topics in the sociology of religion. The course may be repeated once when the content varies.

6V71 Special Topics**1 to 3 sem. hrs.**

Prerequisite(s): Consent of instructor.

A social research project in selected areas of sociology. The project must be approved by the members of the graduate faculty supervising the student. A final journal-quality paper summarizing the research effort and findings must be submitted to the instructor. This course may be repeated up to six times for credit up to a total of eighteen semester hours provided the research area is different.

6V97 Seminar in Teaching**3 to 6 sem. hrs.**

Supervised teaching experience. The student will teach SOC 1305 under the supervision of a graduate faculty member. Lesson plans, syllabi, handouts, lecture examples, etc., will be discussed before and after classes. Videotaping of selected classes will provide media for critique and growth.

6V99 Dissertation**1 to 6 sem. hrs.**

Supervised research for the doctoral dissertation. A total of at least twelve semester hours is required for completion of the dissertation.

SPANISH (SPA)**4303 Spanish Phonology and Morphophonology**

Prerequisite(s): SPA 3309.

The sounds of Spanish and the formation of its words, and the relationship between these two, morphophonology. It includes pronunciation and transcription of Spanish.

4304 Spanish Syntax, Semantics and Pragmatics

Prerequisite(s): SPA 3309.

Spanish word order, the study of sentence entities, the meaning of words, and elements of conversational performance including understanding, and appropriateness.

4330 Advanced Grammar, Composition and Conversation

Prerequisite(s): SPA 3302; and consent of instructor.

A review of grammar applied to the writing of compositions and conversational practice. Emphasis on writing style, practical and cultural topics, dialogues, and interviews.

4362 Spanish Drama of the Golden Age

Prerequisite(s): SPA 3300 or consent of division director.

Representative playwrights of seventeenth-century Spain; extensive study of selected works. Lectures, reports, class discussion, and term papers.

4363 Cervantes

Prerequisite(s): SPA 3300 or consent of division director.

Study of the major works of Cervantes with emphasis on *Don Quixote*, the cultural milieu of sixteenth and seventeenth century Spain, and the views of present-day literary critics. Lectures, class discussions, oral reports, and term papers.

4364 Nineteenth Century Spanish Literature

Prerequisite(s): SPA 3300 or consent of division director.

Representative plays, poems, essays, and novels from nineteenth century Spanish literature, emphasizing in-depth analysis of texts.

4366 Twentieth Century Spanish Literature

Prerequisite(s): SPA 3300.

Study of representative poets, playwrights, and novelists of this century. Lectures, student reports, class discussions, and term papers.

4372 Latin American Short Story

Prerequisite(s): SPA 3300.

An in-depth study of outstanding eighteenth, nineteenth and twentieth century Latin American short stories in light of current practice and trends in literary analysis.

4375 Contemporary Spanish American Theater

Prerequisite(s): SPA 3300 or consent of division director.

Major trends of Spanish American theater as reflected in the works of major contemporary playwrights. Readings, lectures, and reports.

4376 The Spanish-American Novel

Prerequisite(s): SPA 4370, 4374 or consent of division director.

A study of the origins and development of the Spanish-American novel (from 1816 to 1915). A study of the main literary movements as reflected or found in the novel, in an approved paper or project.

4378 Latin American Poetry

Prerequisite(s): SPA 3300.

An overview of poetic trends in Latin American literature from pre-Hispanic times to the twentieth century.

4388 Topics in Hispanic Language and Literature

Prerequisite(s): SPA 3300; or consent of division director.

A study of an author, work, period, genre, or current Hispanic literature or of an aspect of the Spanish language. Topic changes from semester to semester. May be repeated for credit if topic is different.

5302 Literary Theory, Research and Writing

Prerequisite(s): Graduate standing.

Theories and models of literary criticism, as well as library resources and their use applied to the analysis of texts in Spanish to produce scholarly papers.

5310 Medieval Spanish Literature

Prerequisite(s): SPA 5351.

A study of Spanish literature from the end of the first millennium through the consolidation of the various Spanish kingdoms under Ferdinand and Isabella.

5315 Spanish Literature of the 16th and 17th Century

Prerequisite(s): SPA 5301; or consent of graduate adviser.

Representative works of poetry, prose narrative, and drama from Boscan to Calderon. Close reading of texts with special attention to major historical, artistic, and literary trends of the sixteenth and seventeenth centuries.

5324 Spanish Poetry and Drama: 19th and 20th Centuries

Prerequisite(s): SPA 5301.

Major historical and literary movements and major historical, literary, and artistic figures of nineteenth-and twentieth-century Spain. Analysis of texts through close reading.

5326 Nineteenth and Twentieth Century Spanish Narrative

This course is an introduction to the major movements and writers of prose fiction in Spain in the last two hundred years.

5331 Latin American Colonial Literature

This course is designed to give an overview of literary trends in Hispanic-American literature from pre-Hispanic times to the eighteenth century.

5334 Latin American Romanticism to Modernism

This course is designed as a survey of the Latin American novel, short story, poetry and theatre from the nineteenth century to the first half of the twentieth century.

5335 Latin American Literary Trends: Early to Mid 20th Century

Prerequisite(s): Graduate standing.

This course is designed as a survey of the Latin American novel, short-story, poetry and theatre of the first half of twentieth century.

5337 Latin American Literary Trends: Mid Twentieth Century to Present

This course is designed as a survey of the Latin American novel, short-story, poetry, and the theatre from the second half of the twentieth century to the present.

5350 Introduction to Romance Linguistics

An introductory course for the field of linguistics and its components: phonology, morphology, syntax, semantics, and language change.

5351 History of the Spanish Language

Historical developments of the language from Latin to modern Spanish.

5356 The Acquisition of Spanish as a First and Second Language

Prerequisite(s): SPA 5350; or consent of instructor.

An examination of studies on the acquisition of Spanish as a first and second language; language acquisition in both formal and informal environments is studied.

5357 Spanish Syntax and Semantics

The course intends to examine the grammatical structures of Spanish and English for students who are intermediate to advanced learners of Spanish.

5358 Phonology and Morphology

The course intends to examine the phonological and morphological structures of Spanish as they relate to English.

5359 Seminar in Language Acquisition and Applied Linguistics

Theory, review of literature, and practice in language acquisition and applied linguistics for graduate students who will be teaching Spanish as a second language.

5370 Spanish for Graduate Students I

Reading of intermediate-level Spanish texts. No previous language experience required. Limited to graduate students or to undergraduates by petition. Does not count toward foreign language requirement for undergraduate students.

5371 Spanish for Graduate Students II

Prerequisite(s): SPA 5370; or consent of instructor.

Continuation of SPA 5370. Reading of intermediate-level Spanish texts. No previous language experience required. Limited to graduate students or to undergraduates by petition. Does not count toward foreign language requirement for undergraduate students.

5388 Topics in Hispanic Language and Literature

Prerequisite(s): Graduate standing.

A study of an author, work, period, genre, or trend of Hispanic literature or of an aspect of the Spanish language. Topic changes from semester to semester. May be repeated once for credit if topic is different.

5V90 Independent Study**1 to 3 sem. hrs.**

Prerequisite(s): Consent of division director.

5V99 Thesis**3 to 6 sem. hrs.****SPEECH COMMUNICATION (CSS)****4301 Organizational Communication**

Communication within the organization and its relationship to organizational structure, roles, leadership, and management orientations.

4302 Communication Training and Development

Theory and practice of performing and supervising training activities in an organizational setting. Emphasis on the design, execution, and evaluation of communication training and development programs and strategies.

4303 Leadership and Communication

Prerequisite(s): CSS 1301 or 1302.

The intersection between leadership and communication, emphasizing the theory, research, and practice of leadership communication.

4304 Advanced Small Group Theory and Practice

Prerequisite(s): CSS 1301 or 1302 and CSS 3304; and upper-level standing or consent of instructor.

Examines advanced and complex types of small-group interaction, leadership, and collaboration. Taught in London.

4310 Politics and Communication (Cross-listed as PSC 4310)

See PSC 4310 for course information.

4311 Conflict and Communication

Prerequisite(s): CSS 3304, 3306, 3311, or 3316; or consent of instructor.

The role of communication in managing conflict in interpersonal, group, organization, and community contexts.

4312 Systemic Inquiry

Prerequisite(s): Upper-level standing.

Examines advanced and complex types of communication contexts involving relational and group facilitation strategies, systemic interviewing practices, and the development of a basic understanding of systemic inquiry as a communication management strategy. Taught in London.

4313 Communication and the Family

Prerequisite(s): Upper-level standing.

Survey of communication issues related to theory and research regarding relationships within the modern family system.

4351 Criticism of Contemporary Public Address

Prerequisite(s): Six semester hours in communication studies.

Significant public speeches in contemporary society, with emphasis on applying principles and methods of rhetorical criticism.

4352 Corporate Advocacy and Public Policy

Prerequisite(s): CSS 1301, 1302; or 1304.

Influence of contemporary organizations on public attitudes and public policy through analysis of communication campaigns during both favorable and unfavorable conditions.

4353 Public Discourse and Foreign Policy (Cross-listed as PSC 4335)

Prerequisite(s): Upper-level standing.

An analytical approach to the discourse generated by United States foreign policy in the post-World War II era. Topics covered include the nature of public opinion and foreign policy, rhetorical and political constraints on foreign policy discourse, and in-depth analysis of the arguments for and against the conflict in Vietnam.

4354 African American Communication (Cross-listed as PSC 4340)

Prerequisite(s): Upper-level standing.

Rhetorical strategies of African Americans, focusing on the historically important documents of oratory, argumentation, homiletic, and narrative.

4380 Internship in Speech Communication

Prerequisite(s): Fifteen hours in major and consent of division director for undergraduate students; consent of graduate director for graduate students.

Work at appropriate employment site for academic credit to accommodate career needs of speech communication students. Internships must be approved by the division director. May be repeated for a total of six hours. Graduate students will be limited to three hours.

4394 Rhetorical Theory

Selected theories of persuasion in Western culture from the Greco-Roman period to the present. Topics covered include the relationship of rhetoric and poetic, arguments for a behavioristic approach to rhetoric, and contemporary claims concerning rhetoric as a way of knowing.

4395 Visual Rhetoric

Prerequisite(s): Upper-level standing or consent of instructor.

Theories and methodologies pertaining to visual rhetoric.

4396 American Rhetoric (Cross-listed as AMS 4397)

Origin and development of rhetoric in American social movements, with emphasis on the characteristics of various types of communication situations and the discovery, analysis, and evaluation of common persuasive strategies.

4397 Public Discourse and the Classic Liberal Tradition

Prerequisite(s): Upper-level standing or consent of instructor.

Analysis of major speeches, pamphlets, and essays in England and America on politics and political change from the early seventeenth century through the American Revolution. Topics addressed include the birth of the public sphere, church and state relations, and natural rights.

4399 Workshop in Directing the Speech Program

Prerequisite(s): Consent of instructor.

Intended primarily for directors of speech activities in high schools and colleges. May be repeated once for credit.

5310 Modern Communication Theory

An overview of criticism regarding continuing developments in communication theory.

5311 Seminar in Interpersonal Communication

An in-depth analysis of interpersonal theory and research.

5312 Seminar in Argumentation

Prerequisite(s): CSS 4352; or consent of instructor.

Advanced theoretical work on the form and function of argumentation. This course explores field theory, examines the utility of argument diagram, and considers approaches to ordinary language argument.

5313 Seminar in Rhetoric and Society

An analysis of the function of rhetorical discourse in contemporary society.

5314 Seminar in Small-Group Communication

An analysis of small-group communication theory and research with a focus on topics such as decision making, leadership, social influence, and interaction analysis.

5316 Seminar in Organizational Communication

An analysis of organizational communication theory and research.

5317 Seminar in Organizational Change and Communication

Organizational change is viewed from a communication perspective with special attention placed on the conversational architectures that create sensible and coherent change.

5318 Seminar in Rhetoric and the Public Sphere

Prerequisite(s): Graduate standing or consent of instructor.

Analysis of major theoretical statements on the changing nature of the public sphere in western democracies and the related implications for the role of argumentation and rhetorical discourse in the formation of public policy.

5319 Seminar in Family Communication

An advanced examination of scholarly theory, research, and quantitative/qualitative research methods used for academic investigation of topics and issues related to communication within the family.

5350 Seminar in Presidential Rhetoric (Cross-listed as PSC 5350)

See PSC 5350 for course information.

5351 Methods of Graduate Study

Methods of quantitative inquiry in the study of communication theories. Emphasis on application theory and methods in a variety of communication research contexts, e.g., organizational communication, mass communication.

5352 Seminar in Methods of Rhetorical Criticism

Quantitative/critical methodology utilized in the analysis of public discourse.

5V35 Problems in Speech Communication

1 to 6 sem. hrs.

Designed to give individual students opportunities for additional work in their area of concentration. May be repeated in a different semester for a maximum of six semester hours.

5V36 Seminar in Speech Communication

1 to 6 sem. hrs.

Seminar topics vary each semester. One to three semester hours may be earned each semester. May be repeated once with change in topic.

5V90 Professional Paper in Communication Studies**1 to 3 sem. hrs.**

Satisfies the non-thesis option for the master of communication studies. Under the direction of a supervising professor, a student will select a problem or topic in communication studies and will write a substantial paper or produce a substantial project for submission to the faculty. Maximum three hours.

5V99 Thesis**1 to 6 sem. hrs.****STATISTICS (STA)****4370 Sampling Techniques**

Prerequisite(s): Three hours of statistical methods.

Planning, execution, and analysis of sampling from finite populations. Simple random, stratified random, ratio, systematic, cluster, sub sampling, regression estimates, and multi-frame techniques are covered.

4374 Statistical Process Control

Prerequisite(s): STA 3381 or equivalent.

Development of statistical concepts and theory underlying procedures used in statistical process control applications and reliability.

4382 Intermediate Statistical Methods

Prerequisite(s): A minimum grade of C in either STA 2381 or STA 3381; or consent of instructor.

Development and application of two-sample inference, analysis of variance and multiple regression. Assumptions, diagnostics and remedial measures are emphasized. Computer statistics packages are utilized.

4385 Mathematical Statistics I

Prerequisite(s): MTH 2321 with minimum grade of C.

Introductions to the fundamentals of probability theory, random variables and their distributions, expectations, transformations of random variables, moment generating functions, special discrete and continuous distributions, multivariate distributions, order statistics, and sampling distributions.

4386 Mathematical Statistics II

Prerequisite(s): STA 4385 with minimum grade of C.

Theory of statistical estimation and hypothesis testing. Topics include point and interval estimation, properties of estimators, properties of test of hypotheses including most powerful and likelihood ratios tests, and decision theory including Bayes and minimax criteria.

5180 Statistical Packages

Prerequisite(s): STA 3381 or equivalent.

Emphasis on use of the computer to perform statistical data analysis through use of integrated statistical packages. Instruction includes use of SAS and Splus.

5300 Statistical Methods

Introduction to descriptive and inferential statistics. Topics may be selected from the following: descriptive statistics and graphs, probability, regression, correlation, tests of hypotheses, interval estimation, measurement, reliability, experimental design, analysis of variance, nonparametric methods, and multivariate methods.

5301 Introduction to Experimental Design

Prerequisite(s): Graduate standing.

Simple and complex analysis of variance and analysis of covariance designs. The general linear model approach, including full-rank and less than full-rank models, will be emphasized.

5305 Advanced Experimental Design

Prerequisite(s): STA 5381 or consent of instructor.

The course examines a variety of complex experimental designs that are available to researchers including split-plot factorial designs, confounded factorial designs, fractional factorial designs, incomplete block designs, and analysis of covariance. The designs are examined within the framework of the general linear model. Extensive use is made of computer software.

5351 Theory of Statistics I

Introduction to probability theory. Fundamentals of probability theory, random variables, distribution and density functions, expectations, transformations of random variables, moment generating functions, convergence concepts, sampling distributions, and order statistics.

5352 Theory of Statistics II

Prerequisite(s): STA 5351.

Theory of statistical estimation and hypothesis testing. Topics include point and interval estimation, sufficiency, properties of estimators, and Bayes techniques.

5353 Theory of Statistics III

Prerequisite(s): STA 5352.

Topics include sampling distributions, likelihood and sufficiency principles, point and interval estimation, loss functions, Bayesian analysis, asymptotic convergence, and test of hypothesis.

5362 Time Series Analysis

Prerequisite(s): STA 5352.

Statistical methods of analyzing time series. Topics include autocorrelation function and spectrum, stationary and non stationary time series, linear filtering, trend elimination, forecasting, general models and auto regressive integrated moving average models with applications in economics and engineering.

5364 Survival and Reliability Theory

Prerequisite(s): STA 5352.

Basic concepts of lifetime distributions. Topics include types of censoring, inference procedures for exponential, Weibull, extreme value distributions, parametric and nonparametric estimation of survival function and accelerated life testing.

5365 Design of Experiments and Clinical Trials

Prerequisite(s): STA 5380 and 5381.

Traditional designs of experiments are presented within the framework of the general linear model. Also included are the latest designs and analyses for clinical trials and longitudinal studies.

5367 Managerial Epidemiology (Cross-listed as HPA 5367)

See HPA 5367 for course information.

5377 Spatial Statistics

Prerequisite(s): STA 5353; or consent of instructor.

Exploratory spatial data analysis using both graphical and quantitative descriptions of spatial data including the empirical variogram. Topics include several theoretical isotropic and anisotropic variogram models and various methods for fitting variogram models such as maximum likelihood, restricted maximum likelihood, and weighted least squares. Techniques for prediction of spatial processes will include simple, ordinary, universal and Bayesian kriging. Spatial sampling procedures, lattice data, and spatial point processes will also be considered. Existing software and case studies involving data from the environment, geological and social sciences will be discussed.

5380 Statistical Methods for Research

Introduction to the more common statistical concepts and methods. Interval estimation, tests of hypotheses, non-parametric methods, linear regression and correlation, categorical data analysis, design of experiments and analysis of variance, and the use of computer packages.

5381 Regression Analysis

Prerequisite(s): STA 3381 and MTH 2311.

Statistical methods and linear algebra. Theory and applications of simple and multiple regression models. Topics include review of statistical theory inference in regression, model selection, residual analysis, general linear regression model, multicollinearity, partial correlation coefficients, logistic regression, and other appropriate topics.

5383 Introduction to Multivariate Analysis

Prerequisite(s): STA 5381 or equivalent.

Statistical models and procedures for describing and analyzing random vector response data. Supporting theoretical topics include matrix algebra, vector geometry, the multivariate normal distribution and inference on multivariate parameters. Various procedures are used to analyze multivariate data sets.

5384 Multivariate Statistical Methods

Prerequisite(s): STA 5300.

Discriminant analysis, canonical correlation analysis, and multivariate analysis of variance.

5387 Stochastic Processes

Prerequisite(s): STA 5353.

The study of probability theory as motivated by applications from a variety of subject matters. Topics include: Markov chains, branching processes, Poisson processes, continuous time Markov chains with applications to queuing systems, and renewal theory.

5388 Seminar in Statistics

Prerequisite(s): Consent of instructor.

Selected topics in Statistics. May be repeated once with change of topic.

5V85 Practice in Statistics

1 to 3 sem. hrs.

Consulting, research, and teaching in statistics.

5V95 Topics in Statistics

1 to 3 sem. hrs.

Prerequisite(s): Consent of instructor.

Selected topics in statistics. May involve texts, current literature, or an applied data model analysis. This course may be repeated up to three times with change of topic.

5V99 Thesis

1 to 3 sem. hrs.

Supervised research for the master's thesis. A maximum of three semester hours to count for the degree.

6351 Large Sample Theory

Prerequisite(s): STA 5353.

Large sample theory, including convergence concepts, laws of large numbers, central limit theorems, and asymptotic concepts in inference.

6352 Bayesian Theory

Prerequisite(s): STA 5353 or equivalent.

Bayesian statistical inference, including foundations, decision theory, prior construction, Bayesian point and interval estimation, and other inference topics. Comparisons between Bayesian and non-Bayesian methods are emphasized throughout.

6353 Semiparametric Regression Models

Prerequisite(s): STA 5353.

Semiparametric inference, with an emphasis on regression models applicable to a wider class of problems than can be addressed with parametric regression models. Topics include scatterplot smoothing, mixed models, additive models, interaction models, and generalized regression. Models are implemented using various statistical computing packages.

6360 Bayesian Methods for Data Analysis

Prerequisite(s): STA 5353 or equivalent.

Bayesian methods for data analysis. Includes an overview of the Bayesian approach to statistical inference, performance of Bayesian procedures, Bayesian computational issues, model criticism, and model selection. Case studies from a variety of fields are incorporated into the study. Implementation of models using Markov chain Monte Carlo methods is emphasized.

6366 Statistical Bioinformatics

Prerequisite(s): STA 5353 and 5383; or consent of instructor.

Critical evaluation of current statistical methodology used for the analysis of genomic and proteomic data.

6375 Computational Statistics

Prerequisite(s): STA 5353.

Topics in statistical simulation and computation including pseudo-random variate generation, optimization, Monte Carlo simulation, Bootstrap and Jackknife methods.

6382 Theory of Linear Models

Prerequisite(s): STA 5353 and 5381; and knowledge of matrix theory.

Theory of general linear models including regression models, experimental design models, and variance component models. Least squares estimation. Gauss-Markov theorem and less than full rank hypotheses.

6383 Advanced Multivariate Analysis

Prerequisite(s): STA 5383.

Multivariate normal and related distributions. Topics include generalizations of classical test statistics including Wilk's Lambda and Hotelling's T^2 , discriminant analysis, canonical variate analysis, and principal component analysis.

6384 Analysis of Categorical Responses

Prerequisite(s): STA 5381 or equivalent.

Theory of generalized linear models including logistic, probit, and log linear models with special application to categorical and ordinal categorical data analysis.

6V99 Dissertation

1 to 6 sem. hrs.

Supervised research for the doctoral dissertation. maximum of nine semester hours will count for the degree. A student may register for one to six semester hours in one semester.

SYRIAC (SYR)**5305 Syriac**

Prerequisite(s): Knowledge of Hebrew and Aramaic.

Introduction to study of ancient Syriac with selected readings from Syriac manuscripts of Biblical books as well as early Christian literature.

TEACHER EDUCATION (TED)**4325 Teaching Science in the Secondary School**

A survey of contemporary secondary school science programs (all sciences) emphasizing their philosophies, designs, and unique methods and strategies for teaching.

4348 Secondary Mathematics Curriculum

Methods and activities used to actively engage secondary school students in the construction

of mathematical ideas will be investigated along with an analysis of the secondary mathematics curriculum. Candidates will reflect on what it means to teach mathematics and explore factors that influence teaching. The NCTM Standards will be emphasized. Includes laboratory experiences in teaching mathematics at the secondary school level.

4349 Critical Issues in Mathematics Education

Prerequisite(s): TED 2330 or 2340.

Teacher candidates will investigate critical issues in the nature of knowledge and inquiry in middle grade and secondary school mathematics. Candidates will explore current issues related to teaching practices and experiences. The NCTM Standards along with relevant research will provide a foundation.

THEATER ARTS (THEA)

4326 Advanced Costume Design

Prerequisite(s): THEA 3326.

Advanced principles and practices of costume design, with an emphasis on the design team/director collaboration.

4335 Creative Dramatics

Prerequisite(s): Consent of instructor.

Education, theory, and philosophy that will cultivate the techniques of creative dramatics and develop the skills needed for human interaction in dramatic play. Lab required.

4365 Advanced Directing I

Prerequisite(s): THEA 3324 and 3325.

Directing techniques for departures from realism, with an emphasis on postmodern theatre, musical theatre, and verse drama. Workshop required. (Fee)

4366 Advanced Directing II

Prerequisite(s): THEA 4365.

Continuation of THEA 4365. Workshop required. (Fee)

4376 Theater History III

Prerequisite(s): THEA 2374 and 2375; and upper-level standing.

Historical investigation of theatre practice, performance, and dramatic literature from the early twentieth century to the present.

4377 The Theatre and Christianity

Prerequisite(s): Upper-level standing or consent of instructor.

An exploration of biblical perspectives concerning creativity and the arts with a special emphasis on theatre and the performing arts.

4378 Dramaturgy: Theory and Practice

Prerequisite(s): THEA 4376 and consent of instructor.

Investigation of the functions and methods of the dramaturg such as choosing a season, audience enrichment, new play development, researching production history, and understanding dramatic structure and theory.

4379 Advanced Studies in Contemporary Theatre and Drama

Prerequisite(s): THEA 2374, 2375, and 4378.

Topics related to leading contemporary playwrights, current issues of dramatic style, and emerging trends in theatrical practice.

4380 Performing Arts Management

Prerequisite(s): Upper-level standing.

Organizational structure, fundraising techniques, and board development for non-profit professional and commercial performing arts organizations. Includes contracting with professional unions, budgeting, and season planning. Technical crew lab included.

4390 Advanced Stage Management

Prerequisite(s): THEA 2390.

Role and responsibilities of the stage manager using the Regional Theatre or LORT Stage Manager model. Explores budgeting, seasonal planning and responsibilities in touring and non-theatrical situations.

5101 Introduction to Graduate Theatre Studies

A two week introductory intensive designed to prepare students for graduate level theatre research, analysis, and teaching.

5301 Contemporary Directing Styles

Analysis of contemporary directing styles.

5304 History and Theory of Directing

An historical and theoretical study of the development of the director, with emphasis on the late nineteenth century to the present.

5306 Play Analysis for Directors

Advanced study of several methodologies for analyzing dramatic structure and composition; approaches to the direct application of analysis to play production.

5307 Contemporary Performance Theory

Development of twentieth-century performance theory.

5308 Dramatic Theory and Criticism

Dramatic theory and criticism from Aristotle to the twentieth century.

5310 Seminar in Classical Drama

An historical and theoretical study of selected classical masterworks in performance.

5311 Directing Modern Plays

A study of theories and techniques used in directing selected European and American masterworks with emphasis on script analysis and interpretation, staging practices, and particular concept and style.

5312 Directing Classical Plays

Directing theories and concepts of tragedy and comedy from the Greeks through the nineteenth century.

5313 Production Design

Research, analysis, and practical experience in designing scenery, lighting, sound, costumes, and makeup for a realized production.

5315 Seminar in Modern Drama

This seminar course offers advanced study of modern American and British and European drama specifically for graduate students of theatre.

5335 Director's Workshop

Practical experience in all areas of theatre production for the public presentation of a full-length play.

5351 Theatre Scholarship and Research Methods

Seminar study of practical issues in advanced theatre scholarship, research methods, application of theory, academic writing, and scholarly publication.

5370 Seminar in Dramatic Production

Research and critical analysis of plays and their productions.

5372 Independent Study

Guided study of pre-approved topic(s).

5373 Dramaturgy

Application of directorial script analysis and dramaturgical tools in production planning, development of the production script, and rehearsal.

5374 Collaborative Theater Process

An investigation through research and discussion of the elements of design, the relationship between the director and designers, and the process of unifying various elements of theatre production. Students will submit proposals for designs of both classic and modern plays and justify their ideas through literary and pictorial research.

5375 Actor-Director Collaboration

Through scene work and acting exercises, directors explore the theories, common vocabularies, and basic skills and techniques needed to work with actors from differing backgrounds. Attention will also be given to auditioning, casting and rehearsal strategies as well as the major directorial performance styles of the twentieth century.

5376 Playwriting

A study of the art and craft of playwriting, emphasizing analytic approaches to writing, developing a personal voice, narrative, characters, and point of view. Workshop required.

5398 Thesis Production and Research

Master of Fine Arts students only. Research, design, and direction of the thesis production.

5V99 Thesis

1 to 9 sem. hrs.

UGARITIC (UGA)**5306 Ugaritic Grammar and Lexicography**

Prerequisite(s): HEB 2301; or equivalent.

Fundamentals of the language of Ugarit with special attention to the relationship of Ugaritic with Hebrew grammar and lexicography.

AFFILIATED PROGRAMS

BAYLOR DOCTOR PHYSICAL THERAPY (BDPT)

6100 Medical Differential Diagnosis for Primary Care Physical Therapists

Prerequisite(s): Eighteen month Baylor MPT degree (1992-2004 graduates)

Examine selected medical diagnoses that the primary care physical therapist must be able to identify using a thorough patient history and physical exam. Includes practice of physical exam with a physician mentor.

6101 Health Promotion

Prerequisite(s): Eighteen month Baylor MPT degree (1992-2004 graduates)

Methods to control/prevent musculoskeletal injuries and promote healthy life-style changes. Epidemiology of injury and risk factors and development of health promotion/prevention programs using the five basic steps of surveillance, research intervention, outcomes measurement and program modification.

6102 Diagnostic Neuroimaging

Prerequisite(s): Eighteen month MPT degree (1992-2004 graduates)

Advanced knowledge for physical therapists regarding the evidence for the indications, national practice guidelines, and diagnostic utility of specific diagnostic imaging procedures (e.g. CT, MRI, PET/SPECT).

6200 Evidence Based Practice II

Prerequisite(s): Eighteen month Baylor MPT degree (1992-2004 graduates); and BDPT 6300.

This course will further assist graduate physical therapists to make independent judgments about the validity of clinical research and implement evidence-based clinical practice in their careers. The focus for this course is on critical analysis of evidence relevant to clinical practice across the spectrum of clinical questions, collection of outcomes data from clinical practice settings, and self-evaluation to determine how well the individual course participant is integrating the principles of evidence-based practice into clinical performance.

6201 Reflective Physical Therapy Practitioner

Prerequisite(s): Eighteen month Baylor MPT degree (1992-2004 graduates); and BDPT 6100, 6101, and 6300.

This is the capstone course within the MPT to DPT degree curriculum. Focus is reflective professional practice as it relates to patient care as well as administration. Includes patient case report, performance improvement, marketing, budgeting, health promotion project, and professional development planning.

6300 Evidence Based Practice I

Prerequisite(s): Eighteen month Baylor MPT degree (1992-2004 graduates)

Prepares physical therapists to make independent judgments about the validity of clinical research and implement evidence-based clinical practice in their careers. Focus is on concepts of evidence-based practice with emphasis on forming answerable clinical questions, effective literature search strategies, and structured evaluation of the strength and relevance of clinical evidence.

CLINICAL ORTHOPAEDICS (MCO)

6140 Articular Injuries of the Knee

This course summarizes the current diagnosis, treatment (conservative and surgical) and expected outcomes of articular cartilaginous injuries of the knee. This course will provide the DScPAS-CO resident the knowledge needed to diagnose and guide a patient through the various current treatment options.

6141 Anterior Knee Pain and Patello-femoral Joint Instability

This course summarizes the possible causes, clinical presentations, and treatment options for anterior knee pain. This will provide the DScPAS-CO resident with the knowledge needed to properly diagnose and treat this common, yet significant problem.

6142 Genetics I and II, Developmental Dysplasia of the Hip (DDH), Legg-Calve-Perthes Disease and Slipped Capital Femoral Epiphysis (SCFE)

This course provides the basic knowledge and skills that the DScPAS-CO resident will require throughout training and in clinic practice regarding genetic disorders and musculoskeletal conditions.

6143 Orthopaedic Surgery in the Immunocompromised Host

This course brings to light the special requirements and potential complications of orthopaedic surgery in the immunocompromised patient. Being familiar with techniques used to decrease morbidity and mortality in this special subset of the population undergoing orthopaedic surgery is essential for the DScPAS-CO resident in today's society.

6144 Osteoarthritis

This course is an overview of osteoarthritis, including the epidemiology, pathogenesis, clinical features, evaluation, and management. Clinically, osteoarthritis is a very common diagnosis, and being knowledgeable about this disease entity is essential for the DScPAS-CO resident.

6145 Benign Bone Tumors

This course addresses the incidence, clinical and radiographic features, and management of benign bone tumors. Benign bone tumors are four to five times more common than malignant bone tumors, making familiarity with benign bone tumors essential for the DScPAS-CO resident.

6146 Prioritization and Management of the Polytrauma Patient

This course discusses the prioritization and management of the polytrauma patient. The DScPAS-CO resident will become familiar with and utilize established trauma management protocols and learn how to integrate into a coordinated team of traumatologists.

6147 Ligamentous Injuries of the Foot and Ankle

This course discusses common injuries of the foot and ankle. The DScPAS-CO resident will become familiar with and be able to differentiate surgical versus non-surgical ankle injuries and use well-established treatment options for non-surgical injuries.

6148 Knee Ligament and Meniscal Injuries: Epidemiology, Mechanism, Diagnosis and Natural History

This course will give the DScPAS-CO resident knowledge necessary to identify, diagnose and determine the appropriate management course for knee ligamentous and meniscal injuries.

6150 Diagnosis and Management of Musculoskeletal Infection

This course reviews the microbiology, history, physical exam findings, ancillary studies and management options for common musculoskeletal infections.

6151 Overview of Arthritis

This course is an overview of arthritis. It touches on the impact of arthritis in our society and reviews some unique considerations in the care of the orthopaedic patient with arthritis.

6152 Pathophysiology of Bone Tumors

This course is an overview of the pathophysiology of bone tumors. Understanding the pathophysiology of bone tumors will help the DScPAS-CO resident when evaluating a patient with an osseous lesion with regards to the expected natural course and the presenting symptoms.

6153 Orthopaedic Sports Medicine

This course provides the basic knowledge and skills that the DScPAS-CO resident will require throughout training and in clinic practice regarding orthopaedic sports medicine.

6154 Spinal Pain

This course covers the role of the spine in pathologic pain processes. Spinal pain is frequently non-specific and provides little insight into its source. The spine may be affected by a myriad of pathological disorders—traumatic, neoplastic, inflammatory, metabolic, or degenerative.

6201 Biomechanics of Fracture Fixation and Classification of Fractures

This course will provide the DScPAS-CO resident with a basic introduction to the classification of fractures as well as the biomechanics of fractures, the biomechanics of implants used to fix fractures, and problems associated with implants and specific fracture patterns.

6202 The Multiply Injured Patient with Musculoskeletal Injuries and Anesthetic Care of the Trauma Patient

This course will provide the orthopaedic PA resident familiarity with trauma team organization and responsibilities, ATLS guidelines, anesthetic care, DVT prophylaxis and orthopaedic management of the multiply injured patient.

6203 Non-Operative Fracture Treatment

This course will provide the DScPAS-CO resident familiarity with the history of the evolution of fracture treatment and the effect of today's treatments on the natural skeletal repair process. The resident will also gain familiarity with identifying fractures of the upper and lower extremities, which are commonly treated non-operatively with and without manipulative reduction.

6204 Principles of Internal and External Fixation

This course discusses the principles of internal and external fixation. Being familiar with the principles of internal and external fixation is essential for the DScPAS-CO resident while developing a treatment plan, assisting during operative procedures, and providing post-operative care and rehabilitation.

6205 Musculoskeletal Healing, Vascular Injuries and Compartment Syndromes

This course provides the basic knowledge and skills that the orthopaedic PA resident will require throughout training and in clinic practice regarding bone and soft tissue healing, open fractures, vascular injuries, and compartment syndrome.

6206 Penetrating Trauma/Bone and Soft Tissue Reconstruction

This course focuses on penetrating trauma caused by ballistic projectiles. Emphasis is on ballistic behavior and the resulting orthopaedic injuries. Initial management principles are explained with differentiation between the management of upper and lower extremity injuries.

6207 War Wounds, Limb Salvage Traumatic Amputations, and Periprosthetic Fractures

This course covers explosive devices such as mortars, bombs, land mines and improvised explosive devices causing multiple torso, abdominal and extremity trauma. Initial management should focus on saving life and limb but also wound debridement and functional limb salvage for long-term functional and prosthesis use and the classification of common causes of pathologic and periprosthetic fractures.

6208 Complications of Injury to the Musculoskeletal System

This course will give the OPA resident knowledge about the incidence, pathophysiology, examination, diagnostic testing and imaging, classification, and management of select common complications of traumatic, nontraumatic, and surgical (iatrogenic) injury to the musculoskeletal system.

6209 Fractures and Dislocations of the Hand and Wrist

This course will provide the DScPAS-CO resident with a base knowledge of fractures and dislocations in the hand and wrist with insight into the complexities involved with even the seemingly insignificant appearing fractures.

6210 Fractures of the Radial and Ulnar Shafts and Isolated Distal Radius Fractures

This course will provide the orthopaedic PA resident with the information and knowledge needed to diagnose, describe, reduce, and recommend for surgical fixation one of the most common fractures in all age groups.

6211 Fractures and Dislocations of the Elbow and Distal Humerus

This course provides the basic knowledge and skills that the orthopaedic PA resident will require throughout training and in clinic practice regarding elbow dislocations and fractures about the elbow and distal humerus.

6212 Subluxations and Dislocations about the Glenohumeral, Acromioclavicular, and Sterno-clavicular Joints

This course will give the DScPAS-CO resident knowledge about the general anatomy, biomechanical pathology, examination, diagnostic imaging, and classification of select subluxations and dislocations of the glenohumeral joint and surrounding musculoskeletal tissues of the shoulder girdle.

6213 Fractures of the Shaft and Proximal Humerus

This course discusses the evaluation and treatment of humeral shaft and proximal humerus fractures. Being familiar with the history, physical exam, radiological findings and treatment of humerus fractures is an essential skill for the orthopaedic PA.

6214 Fractures of the Clavicle and Scapula

This course covers scapular fractures which can occur after high energy mechanisms, and have a significant (35% to 98%) amount of associated injuries. Fractures of the scapula occur infrequently at 0.4% to 1% of all fractures. Not until recently has it been determined that clavicle fractures are anything but routine and that some problematic types of clavicle fractures and non-unions need more in-depth treatment.

6215 Fractures of the Pelvic Ring and Acetabulum

This course will provide the DScPAS-CO resident with the basic information necessary to diagnose, describe, reduce, and treat fractures of the pelvis and acetabulum.

6216 Femoral Head, Neck, and Intertrochanteric Fractures and Hip Dislocations

This course will give the DScPAS-CO resident knowledge of the general anatomy, biomechanical pathology, signs and symptoms, examination, diagnostic imaging, and classification of hip dislocations and fractures of the head, neck and intertrochanteric regions of the femur.

6217 Subtrochanteric Fractures and Fractures of the Shaft of the Femur

This course will give the DScPAS-CO resident knowledge about the general anatomy, biomechanical pathology, signs and symptoms, examination, diagnostic imaging, and classification of subtrochanteric and femoral shaft fractures.

6218 Fractures of the Proximal Tibia, Fibula and Patella

This course will give the DScPAS-CO resident knowledge about the general anatomy, biomechanical pathology, signs and symptoms, examination, diagnostic imaging, and classification of select common fractures of the proximal tibia, fibula and the patella.

6219 Knee Injuries and Fractures of the Tibia and Fibula Shafts

This course will give the OPA resident knowledge about the general anatomy, biomechanical pathology, examination, diagnostic imaging, and classification of select common injuries of the knee as well as examination, diagnostic imaging, and classification of select common fractures of the tibia and fibula.

6220 Ankle Fractures and Fractures of the Talus

This course will give the OPA resident knowledge about the general anatomy, biomechanical pathology, examination, diagnostic imaging, and classification of common select fractures and dislocations of the ankle and talus.

6221 Fractures and Dislocations of the Midfoot, Forefoot, and Calcaneus

This course will give the OPA resident knowledge about the general anatomy, biomechanical pathology, examination, diagnostic imaging, and classification of common select fractures and dislocations of the calcaneous, midfoot, and forefoot.

6301 Foot and Ankle Practical Rotation

This is a one-month clinical and surgical rotation on service with a fellowship-trained foot and ankle surgeon and a team of surgical residents.

6302 Orthopaedic Spine Rotation

This is a one-month clinical and surgical rotation on service with a fellowship-trained orthopaedic spine surgeon and a team of surgical residents.

6303 Pediatric Orthopaedic Surgery Rotation

This is a one-month clinical and surgical rotation on service with a fellowship-trained pediatric orthopaedic surgeon and a team of surgical residents.

6304 Orthopaedic Total Joint Rotation

This is a one-month clinical and surgical rotation on service with a fellowship-trained total joint surgeon and a team of surgical residents.

6305 Orthopaedic Hand Surgery Rotation

This is a one-month clinical and surgical rotation on service with a fellowship-trained hand surgeon and a team of surgical residents.

6306 Orthopaedic Tumor Rotation

This is a one-month clinical and surgical rotation on service with a fellowship-trained musculoskeletal oncologist and a team of surgical residents.

6307 Podiatry or Physical Medicine Elective Rotation

This is a one-month clinical and surgical rotation on service with a fellowship-trained Doctor of Podiatric Medicine or a physician specializing in physical medicine/Pain management.

6346 Clinical Research

The MCO 6346 course consists of a didactic phase during the first month of training, dedicated research blocks, and individual research days scheduled throughout the eighteen-month course. The research course is designed to familiarize residents with the research process and, more importantly, to facilitate the development of the skills necessary to critically analyze published scientific articles, including statistical aspects of those articles.

6401 Orthopaedic Sports Rotation

This is a two-month clinical and surgical rotation on service with an orthopaedic sports medicine surgeon and a team of surgical residents.

6402 Orthopaedic Trauma Rotation

This is a two-month clinical and surgical rotation on service with a fellowship-trained orthopaedic traumatologist and a team of surgical residents.

EMERGENCY MEDICINE (MEM)**6142 Radiology**

Prerequisite(s): MEM 6330.

A rotation to orient the Emergency Medicine Physician Assistant Resident to the concepts of radiology in emergency medicine.

6143 Oral-Maxillary Facial Surgery

Prerequisite(s): MEM 6330.

A rotation emphasizing the management of head and neck disorders. Practicum and didactics in the disorders of the head and neck.

6144 Toxicology

Prerequisite(s): MEM 6330.

A rotation emphasizing toxicological presentations encountered in the emergency department.

6145 Emergency Ultrasound

Prerequisite(s): MEM 6330.

A rotation that emphasizes the concepts of ultrasound in emergency medicine.

6210 Introduction to Emergency Medicine Resuscitation, Shock, and Anesthesia

Prerequisite(s): MEM 6330.

This course studies the clinical side of resuscitation techniques, shock recognition and treatment, and anesthesia used in the emergency department.

6211 Emergency Treatment of Orthopedic Injuries, Emergency Ultrasounds, and Emergency Radiology

Prerequisite(s): MEM 6330.

Study of concepts of orthopedic conditions encountered in the emergency department.

6212 Toxicology and Oral Maxillary Facial Disorders

Prerequisite(s): MEM 6330.

This rotation studies concepts of toxicological presentations and oral maxillary facial disorders encountered in the emergency department.

6213 Cardiovascular, Pulmonary, Hematologic, Oncologic, and Psychosocial Diseases and Disorders

Prerequisite(s): MEM 6330.

The study of concepts of cardiovascular, pulmonary, hematologic, oncologic, and psychosocial diseases encountered in an emergency department environment.

6214 Gastrointestinal, Genitourinary, Obstetrics, and Gynecology Diseases

Prerequisite(s): MEM 6330.

The study of concepts in gastrointestinal, genitourinary, obstetrics, and gynecology diseases encountered in an emergency department environment.

6215 Pediatric Non-Traumatic Musculoskeletal Disorders, Abuse, and Assault

Prerequisite(s): MEM 6330.

The study of diseases, non-traumatic muscular skeletal disorders, assault and abuse in the pediatric emergency department patient.

6216 Emergency Wound Management, Environmental Injuries, and Trauma

Prerequisite(s): MEM 6330.

The study of concepts in wound management, environmental injuries, and trauma encountered in the emergency department.

6217 Infectious Disease, Endocrinology, and Neurology

Prerequisite(s): MEM 6330.

The study of concept in infectious diseases and endocrinologic, and neurologic disorders that are encountered in an emergency department.

6220 Advanced Emergency Medicine, Resuscitation, Shock, and Anesthesia

Prerequisite(s): MEM 6210.

This course builds upon MEM 6210 and studies the clinical side of resuscitation techniques, shock recognition and treatment, and anesthesia used in the emergency department.

6221 Advanced Emergency Treatment of Orthopedic Injuries, Emergency Ultrasounds, and Emergency Radiology

Prerequisite(s): MEM 6211.

Study of advanced concepts of orthopedic conditions encountered in the emergency department.

6222 Advanced Toxicology and Oral Maxillary Facial Disorders

Prerequisite(s): MEM 6212.

This rotation studies advanced concepts of toxicological presentations and oral maxillary facial disorders encountered in the emergency department.

6223 Advanced Cardiovascular, Pulmonary, Hematologic, Oncologic, and Psychosocial Disorders

Prerequisite(s): MEM 6213.

The study of advanced concepts of cardiovascular, pulmonary, hematologic, oncologic, and psychosocial diseases encountered in an emergency department environment.

6224 Advanced Gastrointestinal, Genitourinary Obstetrics, and Gynecology Diseases

Prerequisite(s): MEM 6214.

The study of advanced concepts in gastrointestinal, genitourinary, obstetrics, and gynecology diseases encountered in an emergency department environment.

6225 Advanced Pediatrics Non-Traumatic Musculoskeletal Disorders, Abuse, and Assault

Prerequisite(s): MEM 6215.

The advanced study of diseases, non-traumatic muscular skeletal disorders, assault, and abuse in the pediatric emergency department patient.

6226 Advanced Emergency Wound Management, Environmental Injuries, and Trauma

Prerequisite(s): MEM 6216.

The study of advanced concepts in wound management, environmental injuries, and trauma encountered in the emergency department.

6227 Advanced Infectious Disease, Endocrinology, and Neurology

Prerequisite(s): MEM 6217.

The study of advanced concepts in infectious diseases, endocrinologic, and neurologic disorders that are encountered in an emergency department.

6231 Emergency Department 1

Prerequisite(s): MEM 6330.

General emergency medicine rotation to apply the concepts of medical practice in an emergency department setting.

6232 Emergency Department 2

Prerequisite(s): MEM 6330.

General emergency medicine rotation to apply the concepts of medical practice in an emergency department setting.

6233 Emergency Department 3

Prerequisite(s): MEM 6330.

General emergency medicine rotation to apply the concepts of medical practice in an emergency department setting.

6234 Emergency Department 4

Prerequisite(s): MEM 6330.

General emergency medicine rotation to apply the concepts of medical practice in an emergency department setting.

6235 Emergency Department 5

Prerequisite(s): MEM 6330.

General emergency medicine rotation to apply the concepts of medical practice in an emergency department setting.

6330 Orientation to Emergency Medicine

A comprehensive orientation to the field of Emergency Medicine, with formal presentations/lectures, ACLS/PALS, Emergency Department administrative issues, Emergency Medical Services, ethics and professionalism, and an introduction to research in emergency medicine.

6336 Emergency Department 6

Prerequisite(s): MEM 6330.

General emergency medicine rotation to apply the concepts of medical practice in an emergency department setting.

6337 Emergency Department 7

Prerequisite(s): MEM 6330.

General emergency medicine rotation to apply the concepts of medical practice in an Emergency Department setting.

6338 Emergency Department 8

Prerequisite(s): MEM 6330.

General emergency medicine rotation to apply the concepts of medical practice in an emergency department setting.

6341 Elective Concentration

Prerequisite(s): MEM 6330.

This rotation allows the EM PA Resident to practice in an area that will enhance his or her medical skills, e.g. Ophthalmology, Orthopedics, Obstetrics, Cardiology.

6346 Clinical Research

Prerequisite(s): MEM 6330.

The MEM 6346 rotation consists of a didactic phase during the first month of training, dedicated research blocks, and individual research days scheduled throughout the 18-month course. The research course is designed to familiarize the residents with the research process and, more importantly, to facilitate the development of the skills necessary to critically analyze published scientific articles.

6439 Pediatrics Emergency Department

Prerequisite(s): MEM 6330.

A rotation emphasizing the clinical side of pediatric patients in the emergency department.

6440 Pediatrics Emergency Department and Pediatric Intensive Care Unit

Prerequisite(s): MEM 6330.

A rotation emphasizing the clinical side of pediatric patients in the Emergency Department and Pediatric ICU.

6447 Surgical Intensive Care Unit (SICU)

Prerequisite(s): MEM 6330.

A rotation emphasizing the concepts and management of trauma and post operative patients encountered in the Emergency Department.

6448 Medical Intensive Care Unit (MICU)

Prerequisite(s): MEM 6330.

A rotation emphasizing life threatening diseases encountered in the emergency department and managed in the MICU.

6449 Cardiac Care Unit (CCU)

Prerequisite(s): MEM 6330.

A rotation emphasizing the concepts of cardiovascular diseases encountered in the emergency department and managed in the CCU.

6450 Trauma Surgery

Prerequisite(s): MEM 6330.

A rotation emphasizing the concepts of trauma management and lifesaving surgery.

HEALTH CARE ADMINISTRATION (HCA)**5105 Ethics in Health Care**

This course begins with discussion of the major critical principles in bioethics and models for ethical decision-making and is followed by topical readings and discussion in the five core competencies is ethics recommended by the National Summit on the Future of Education and Practice in Health Management and Policy.

5191 Homeland Security and Disaster Relief

This course is designed to teach healthcare leaders their role, responsibilities, and involvement in developing, implementing and evaluating strategies in providing relief following major disasters. The course is designed to complement the existing technical skills of officers to include general knowledge, communication skills and application of leadership practices in the "War on Terror." The course provides students an opportunity for professional leadership skills in homeland security awareness.

5213 Health Policy

Prerequisite(s): All MHA Core Courses.

A comprehensive model of health policy analysis to include its major objectives and methods and its relationship to the field of health services research. An organizing framework is provided that integrates concepts and methods from the fields of epidemiology, economics, ethics, political science and related disciplines. Emphasis is on integrating policymaking with the major system performance objectives of effectiveness, efficiency, and equity. This course includes the impact of health policies on the health of individuals and populations, the political trade-offs and social dimensions of policy making and how future healthcare policy is likely to be affected by the political marketplace and the economy.

5231 Seminar in Human Resources Management

Study of human resource management with emphasis on issues confronting health care administrators. Examination of emerging practices affecting procurement, compensation, retention, evaluation, training, and development of the human resources needed to provide health care and labor management relations. Emphasis on case studies, current trends and practical applications.

5301 U. S. Health Care Systems

Conceptual dimensions for health services organizations/systems at the macro and micro level are considered. Various aspects of health delivery systems are examined including clinics and hospitals, as well as managed care systems and other third party payers. Provides a conceptual framework for identifying, analyzing, evaluating and managing factors that influence the design, structure and effective operation of hospitals and other health care organizations. Material for this course considers a historical perspective and is drawn from a variety of disciplines, including economics, sociology, and the behavioral and biological sciences.

5304 Managed Care Law and Regulation

Tricare issues, to include contracting and alternative acquisition modalities. Established principles of tort and contract law will be applied to the changing structure of managed health care in the federal and civilian sectors. More specific topics may include: enrollment based capitation;

Medicare subvention; contractual limitations on liability; restrictions on the right to practice; corporate practice of medicine; potential liability of program participants the effects of antitrust laws and safe harbor regulations, any willing provider laws, and the Employee Retirement Income Security Act; development of a new ethical contract for delivery of health/medical care; and negotiation of better agreements.

5306 Current Issues in Healthcare Quality

Prerequisite(s): All MHA Core Courses.

Covers the historical evolution, current concepts, and future trends associated with monitoring and evaluation of health quality. Explores the major components of quality improvement to include patient care assessment, risk management, patient safety/environment of care, medical management, outcomes management, and process improvement.

5312 Issues in International Health

Health policies and delivery mechanisms within representative countries. Cross-cultural analytical techniques are reviewed. International health organizations, programs, and other cooperative efforts are discussed. International issues concerning environmental health, health status, and health care activities are studied.

5317 Health Management Information Systems

Studies focus on information technology and systems, including historical development, for conceptual understanding of the evolution from reporting accounting data to newer broad-based information support applications in the delivery of health care. Emphasis is placed on the fundamental principles of collecting and analyzing data for the production of information that supports management, operations, planning and decision making. Discussion of case studies, including health care examples, leads to an understanding of appropriate and cost-effective applications of technology. Analytical study of a health care system and the design of a current medical information support system synthesize the content of the course.

5318 Finance III: Financial Applications

This course is designed to teach healthcare leaders their role in operating, managing and directing the military and federal financial system. The course provides in-depth knowledge of the military health system and the business case analysis approach to decision-making and builds on sound financial practices learned in HCA 5350 & HCA 5353. With an emphasis on executive-level critical thinking skills, it allows students to integrate and apply previously learned tools and abilities to military specific activities.

5320 Advanced Statistical Applications in Health Care Delivery

Techniques of statistical analysis applied to problems in biomedical and health care research. Emphasis on general linear models including multiple regression and correlation models, discriminant analysis, and analysis of categorical data, and mixed binary and continuous functions. Computer support is used for statistical analysis in application aspects.

5322 Organizational Behavior and Theory with Human Resources

The focus of this course is the application of human resources and theory in the organization setting. Emphasis is placed on the skills and competencies necessary for effective health services management as well as the functions performed by, and roles required of, middle and senior level managers. The course is also separated into elements of micro and macro organizational behavior and theory - as well as key issues in human resource management.

5326 Health Care Facilities Planning and Utilization

Health care facilities planning concepts with emphasis on the planning process, functional planning, accreditation, OSHA and handicap design standards, conversion of existing buildings, transition planning, and construction project management. Topics are discussed relative to the role of the administrator.

5329 Leadership in Complex Organizations

This course is designed to explore a broad range of leadership issues. Students will have the

opportunity to examine their own leadership qualities and develop ways to improve them. Readings will cover both theoretical bases for leadership and practical strategies for effective leadership. The format for the class will be group discussion. Each class the instructor or one of the students will present an article/book chapter on leadership and the class will discuss its relevance and importance.

5330 Health Care Contracting and Negotiations

The common law of contracts will be analyzed in the areas of formation, performance and discharge, breach and remedies, the statute of frauds, covenants, and third party rights. The bases of government contracting will be laid and followed by study of contract types, formation, administration, termination, remedies, and ethical problem areas. The study of negotiations will include the process and applicable techniques, strategies, and tactics.

5333 Provider Profiling

This class is designed to expose students to the field of physician outcomes. The course will cover the various ways in which physician and other healthcare providers' performance can be measured. More importantly, students will learn ways to create provider profiling measures which are endorsed by the providers under study and which meet an organizational need. The class will consist of both didactic class sessions, as well as working on an actual profiling project at a local healthcare facility.

5334 Current Problems in Bioethics and Health Law

The fundamentals of ethical decision making followed by study of current critical areas, such as abortion, the right to die; organ harvesting and transplanting; genetic screening, counseling, and engineering; other human subject research; and allocation of scarce resources or "the right to health care."

5336 Health Care Jurisprudence

The foundations of our legal system, the process of civil litigation, and tort law and contract law as they pertain to the health care system. Basic elements of contracting will be addressed, but the emphasis will be on tort law and the interface between tort law and contract law. More specific topics may include: the medical standard of care; federal tort law/liability of federal providers, informed decision-making; defining death and legal actions involving dead bodies; abortion/family planning; medical research; management of medical information; the right to practice; and anti-trust issues. Medical ethics will be distinguished from medical law and ethical aspects of classic cases will be noted.

5339 Medical Informatics - Health Networks, Databases and Applications

This course is designed to explore the role of medical informatics in the delivery of health information at the point of care. The course will focus on the development of medical applications and explores fundamentals of relational databases, security, access and clinical acceptance. Students will gain an understanding and appreciation of both broad and unique medical informatics concepts.

5340 Selected Topics in Financial Management

Managing the external interface with markets (stock and bond valuation and issuing, endowment management, cash management and dividend policy) and advanced tools for managing financial resources (modeling and simulation, process costing, activity-based costing, transfer pricing and joint product costing).

5342 Health Applications in Networking (Elec)

Provides a conceptual framework for identifying, creating, applying resources and advances in networking, telecommunications, and telemedicine to specific diseases, problems in health care, and public health. Resources on the Internet will be used to develop HTML documents. Databases will be explored to develop in-depth reports on individual diseases, resources, public health and infrastructure deficiencies, and health related issues of concern to military operational planners and health care executives.

5344 Advanced Research Methods

Prerequisite(s): HCA 5310 and 5311.

Advanced Research Methods combines skills learned in research methods, statistics, and organization behavior into a blended class that integrates the three previous courses with large databases and statistical software. Students are expected to design research methodologies based on sound theoretical modeling techniques resulting in testable hypotheses reviewed through appropriate analytical assessments. Mathematical/Statistical proofs, operationalization & transformation of data, power and error analysis, and advanced techniques in MANOVA, regression and research design are emphasized.

5345 Productivity Issues in Health Services Administration

Various topics, issues, problems, and techniques in health care productivity management. Emphasis will be on defining productivity in various health care settings (ambulatory care, nursing, hospitals) and understanding the inherent measurement difficulties encountered. Management options explored will include: industrial engineering techniques, time management, budgeting, technological improvements, scheduling, and quality control.

5350 Finance I: Financial and Managerial Accounting in Healthcare Organizations

Purpose and methods of financial accounting (including for-profit, and government), function and organization of the financial resource department, and special industry characteristics affecting financial management (to include third party payers and insurers, price or rate setting and cost shifting, taxation and healthcare incentives, and alternative organizations).

5353 Finance II: Financial Management of Healthcare Organizations

Prerequisite(s): HCA 5350.

Planning and controlling functions (time value of money, pro formas and budgets, ratio analysis), balance sheet management (working capital budgeting, debt and equity financing), and cost management (cost classification allocation and apportioning methods, standard budgeting, break-even and variance analysis).

5354 Advanced Organization Behavior and Theory

Prerequisite(s): HCA 5322.

Advanced Organization Behavior and Theory concentrates on the organization as the unit of analysis. The U.S. Healthcare System acts as the environment from which contextual factors and theoretical constructs and measures exert influence on organizational operations and survivability. Theories discussed include bureaucratic, legitimacy, resource dependence, contingency, transaction cost, population ecology and institutional theory.

5355 Law and Ethics of War and Terrorism

With an emphasis on medical service, this course explores the ethical and legal aspects of military service through current literature, discussion, and film. It includes a study of that area of the law called just war theory and distinguishes terrorism from conventional war.

5356 Organizational Ethics

This course will review major ethical theories, principles, decision-making methods, and the relationship between ethics and leadership. Clinical ethics topics will be considered from an organizational perspective, and topics with a more definitive business focus will be addressed. Case studies will be developed, analyzed, and discussed.

5389 Population Health & Homeland Security

Introduces students to epidemiology as a diagnostic discipline of population health. Material discussed will prepare students to communicate concepts of risk and understand epidemiological information. Common tools will be introduced to evaluate health problems and policies at a population level. In addition, the course will examine medical readiness and explore the boundaries of the twenty-first-century national security mission. This will be accomplished by examining the threats, actors, and organizational structures and resources required to defend the American homeland.

5390 Consulting Practicum in Health Care Administration

A work group project course where students personally observe, analyze, synthesize, evaluate, and report on various real-world healthcare problems in local health services facilities. Students are expected to integrate acquired knowledge, skills, and analytical tools previously obtained in the didactic year regarding the management of health services. The course focuses on significant problems and evolving trends in the local community and their implications for efficient and effective healthcare delivery.

5392 Special Studies in Health Care Administration

Advanced work jointly planned by the professor and student in any of the various disciplines of health care administration represented by members of the graduate program faculty. The course provides students with a structured study in the selected topic area and permits advanced application of prior course work. May be repeated with a different topic for up to twelve hours credit.

5410 Quantitative Analysis I: Statistics and Research Methods for Health Care Administration

Basic research method techniques and common statistical applications are presented. Statistical techniques for problem-solving and decision-making including theoretical and applied statistical and quantitative skills to understand, conduct and evaluate managerial research. Topics to be investigated include measurement theory, the scientific method, the research process, experimental design, hypothesis construction and testing, critical evaluation of research, questionnaire construction, rating scales, sampling, indices of validity and reliability, data collection, coding, and reduction. Concepts of functional relationships, descriptive measures, probability distributions, sampling, hypothesis testing, inference, chi-square, student's t-test, correlation, regression, and analysis of variance are discussed.

5411 Quantitative Analysis II: Decision Making with Statistics and Research

Prerequisite(s): HCA 5410.

Advanced concepts, techniques, and technologies used in the scientific inquiry of applied clinical, administrative, and managerial research are presented. Decision-making, selection, computation, and interpretation of analytical procedures and methods are discussed. Emphasizing critical thinking and quantitative analysis, students select appropriate secondary data on a management problem and posit research questions, develop logical hypotheses linked to data and theory, and analyze and make decisions and recommendations based on findings. Advanced techniques such as power analysis, MANOVA, and logistic regression are covered. The course capstone is the group presentation of research findings in the J-Dewey Lutes research symposium.

5661 Administrative Residency

Degree candidates are required to serve an administrative residency in a selected health care institution. During this residency, performed under the guidance of a qualified preceptor, students are provided an opportunity to study and analyze the functional elements of the hospital. They develop managerial skills through varied experience in the performance of administrative tasks and through direct participation in the problem-solving process. Additionally, students perform special studies of the functional areas and conduct a graduate management project. Approval of the proposal and the completed research is secured from the residency committee of the program faculty at the Academy of Health Sciences.

MASTERS PROGRAM NUTRITION (MPN)**5102 Current Issues in Nutrition**

In this evidence-based seminar, students will explore emerging trends and issues in the nutrition sciences. Topics will change each year to reflect current issues and interests.

5202 Vitamin and Mineral Metabolism

This course will provide an in-depth review of vitamin and mineral metabolism and function in humans.

5205 Force Health Protection

This course is designed to introduce students to public health and preventive medicine measures and programs that uniquely impact military populations, both in garrison and in deployed settings.

5207 Weight Management

This course will prepare students to provide comprehensive and integrated weight management care. The course will examine the prevalence and etiology of overweight and obesity. Treatment interventions to include nutrition, physical activity, behavior modification, pharmacotherapy, and surgery will be explored.

5301 Medical Nutrition Therapy

In this course, students will learn how to implement the nutrition care process to provide medical nutrition therapy to patients with various disease states.

5302 Advanced Nutrition and Critical Care

Prerequisite(s): MPN 5701 and 5702.

This course provides an in-depth review of the study and application of nutrition principles related to the critically ill patient with an emphasis on trauma and burn.

5303 Research Methods II

Prerequisite(s): MPN 5401.

This course includes a combination of lecture and practical exercises that emphasize the steps and principles of research. Students will participate in all steps of research, working individually as well as in small groups. Steps include the protocol approval process, volunteer recruitment, data collection, data analysis/interpretation, and preparation of written and oral presentations of research findings.

5304 Biochemistry

Evaluates the underlying role of the molecular structure and function of biological molecules including proteins, carbohydrates, lipids, nucleic acids, vitamins, hormones, and buffers; their anabolism; catabolism; and regulatory mechanisms and overall integration and regulation in the clinical manifestation of disease.

5305 Protocol Development

Co-requisite(s): MPN 5401.

Students will explore topics for protocol development. Hypotheses will be generated and supported by literature reviews.

5306 Nutrition and Performance

Prerequisite(s): MPN 5304 and 5702.

This course provides students with an in-depth knowledge of how nutrition variables can impact both physical and cognitive performance. Topics include: exercise physiology, exercise screening, fuel mobilization (carbohydrate, fat, and protein), micronutrients (vitamins and minerals), hydration, body composition, supplements, and energy balance.

5307 Nutrition in Stability Operations

This course is designed to provide students with in-depth knowledge of nutrition issues confronted in complex emergencies and within the developing world. Emphasis will be placed on macronutrient and micronutrient malnutrition, assessment of nutritional needs, nutritional surveillance and food distribution programs.

5308 Leadership and Management Development

This course is designed to explore a broad range of leadership topics and issues, and to help students develop their executive skills for future roles as managers in clinic and food service operations. Students will have the opportunity to examine their own leadership qualities and develop ways to improve them. Readings will cover both theoretical bases for leadership and practical strategies for effective leadership in the diagnosis, prediction, and analysis of human behavior in organizations.

5401 Research Methods I

This course is designed to introduce students to the basic and advanced concepts, techniques, and technologies used in the scientific inquiry of applied clinical research.

5501 Advanced Nutrition Assessment with Lab

In this course, nutritional assessment methods (anthropometric, biochemical, clinical, and dietary) will be introduced to evaluate nutritional status in both individual and population-based assessment.

5502 Advanced Anatomy & Physiology

In this course, students will explore anatomy, physiology and pathophysiology of the gastrointestinal, urinary, respiratory, cardiovascular, endocrine and reproductive systems.

5V98 Masters Research Project

Student will participate in a group research project (data collection, analysis, and presentation).

5V99 Masters Thesis

Student will complete an individual research protocol (data collection, analysis, and presentation).

MILITARY OCCUPATIONAL THERAPY (MOT)**6112 Behavioral Health Residency**

Prerequisite(s): Acceptance into the US Army Doctor of Science Program in Occupational Therapy.

Focuses on the application of evidence-based concepts and skills for selection of occupational therapy behavioral health assessment and intervention in the clinical and operational setting and promotes the role of the occupational therapist as a member of the behavioral health team.

6113 Evaluation and Intervention: Post-Traumatic Stress

Prerequisite(s): Acceptance into the US Army Doctor of Science Program in Occupational Therapy.

Focuses on the evaluation and intervention of post-traumatic stress as it relates to occupational therapy and occupational performance.

6114 Post-Traumatic Stress Residency

Prerequisite(s): Acceptance into the US Army Doctor of Science Program in Occupational Therapy.

Focuses on the application of post-traumatic stress evaluation and intervention methods as they relate to occupational therapy and occupational performance in the clinical and operational setting.

6116 Management of Combat and Operational Stress Control Residency

Prerequisite(s): Acceptance into the US Army Doctor of Science Program in Occupational Therapy.

Provides application and integration of knowledge and skills attained in the in-depth study of combat operational stress control and the role of the occupational therapist; experienced through forty-eight hours of assessment and intervention in the soldier's work environment.

6118 Occupational Therapy and Warrior Transition Units I

Prerequisite(s): Acceptance into the US Army Doctor of Science Program in Occupational Therapy.

Examines the issues that challenge the successful transition of the warrior with Behavioral Health and Post Traumatic Stress (PTS) diagnoses as they transition from the rehabilitation environment to the military or civilian work environment. The student analyzes related literature to provide evidence-based support for occupational therapy intervention in the warrior transition unit.

6124 Amputee Rehabilitation Residency

Prerequisite(s): Successful completion of DScOT first semester Courses.

Applies the didactic learning of the intervention and evaluation course to the clinic setting and integrates amputee rehabilitation, evaluation, and intervention into occupational therapy care as it relates to the warrior, retiree, and family member.

6126 Occupational Therapy and Warrior Transition Units II

Prerequisite(s): Successful completion of DScOT first semester Courses.

Examines the issues that challenge the successful transition of the warrior with amputations and poly-trauma diagnoses from the rehabilitation environment to the military or civilian work environment. The student analyzes related literature to provide evidence-based support for occupational therapy intervention in the warrior transition unit.

6132 Burn and Trauma Rehabilitation Residency

Prerequisite(s): Successful completion of DScOT semesters I & II courses.

Applies the didactic learning from the evaluation and intervention course to the clinic setting with emphasis on assessment and intervention to minimizing devastating and lifelong disability and maximizing patient functional outcome.

6134 Traumatic Brain Injury Rehabilitation Residency

Prerequisite(s): Successful completion of DScOT semesters I & II courses.

Applies the didactic learning from the evaluation and intervention course to the clinical setting and allows the student to assess and design intervention for the occupational performance of TBI patients within the context of the military, transitional, and civilian environments.

6135 Occupational Therapy and Warrior Transition Units III

Prerequisite(s): Successful completion of DScOT semesters I & II courses.

Examines the issues that challenge the successful transition of the warrior with burn and trauma diagnoses from the rehabilitation environment to the military or civilian work environment. The student analyzes related literature to provide evidence-based support for occupational therapy intervention in the warrior transition unit.

6228 Occupation Centered Practice

Prerequisite(s): Successful completion of DScOT first semester Courses.

Includes exploration and examination of occupation-based evaluations and interventions across adulthood. Focus includes the ability to explore the concepts of occupation, occupation-centered practice, reflection, and critical reasoning; and their application in the areas of assessment, intervention, and outcome measurement for occupational therapy.

6243 Advanced Hand Surgery Outcomes for Occupational Therapists

Prerequisite(s): Successful completion of DScOT semesters I, II, and III courses.

This overview of the hand surgeon's model of evaluation and treatment of musculoskeletal disease and trauma and review of outcomes in advanced surgical techniques requires the development and application of a post-operative occupational therapy protocol for treatment of a specialized case.

6311 Evaluation and Intervention: Behavioral Health

Prerequisite(s): Acceptance into the US Army Doctor of Science Program in Occupational Therapy.

Emphasizes the advanced evaluation and treatment of behavioral health conditions, introducing the student to the behavioral health knowledge base and evidence-based practice to integrate critical reasoning and evidence-based practice into occupational therapy behavioral health treatment settings.

6315 Management of Combat and Operational Stress Control

Prerequisite(s): Acceptance into the US Army Doctor of Science Program in Occupational Therapy.

An in-depth study of combat operational stress control and the role of the occupational therapist, experienced through forty-nine hours of didactics and four days of field training in a simulated combat environment. Includes a four-day field training exercise and a twenty-one-hour project and practicum.

6317 Qualitative Methods

Prerequisite(s): Acceptance into the US Army Doctor of Science Program in Occupational Therapy.

Examines qualitative research methods used to enhance evidence-based research for occupational therapists through the analysis of published healthcare research and the employment of qualitative research methodology. Student will also select an appropriate qualitative research method to collect and analyze data associated with his or her research project.

6319 Essentials of Evidence-Based Practice and Clinical Research

Prerequisite(s): Acceptance into the US Army Doctor of Science Program in Occupational Therapy.

Includes the integration of best evidence and best practice concepts as well as advanced concepts, techniques, and technologies used for the scientific inquiry of applied clinical research. Emphasis is placed on refining research designs for individual projects and preparing a research protocol for approval by the Institutional Review Board.

6321 Cultural Awareness

Prerequisite(s): Successful completion of DScOT first semester Courses.

Provides an overview of the impact of cultural issues on occupational therapy assessment and intervention to include: religious/spiritual, financial, communication, social, political, economic, women and gender, routines, customs, oppression, food and nutrition specific to a culture, and views toward disabilities; and the care of detainees.

6322 Differential Diagnosis in Occupational Therapy

Prerequisite(s): Successful completion of DScOT first semester Courses.

Poses discussion of the medical history and occupational therapy examination findings of somatic and visceral disorders with reference to their influence on occupational therapy upper extremity musculoskeletal diagnosis, evaluation, and intervention.

6323 Evaluation and Intervention: Amputee Rehabilitation

Prerequisite(s): Successful completion of DScOT first semester Courses.

Focuses on occupational therapy evaluation and intervention in amputee rehabilitation, including the upper and lower extremities, and integrates evidence-based amputee rehabilitation, evaluation, and intervention as it relates to the warrior, retiree, and family member.

6325 Evaluation and Intervention: Ergonomics

Prerequisite(s): Successful completion of DScOT first semester Courses.

Includes the development of advanced clinical skills in evaluating environments, tools, and equipment for ergonomic intervention. Presents the study of work and ergonomic principles to enhance occupational performance. Includes health promotion and wellness, environmental health engineering, and health risk management.

6327 Quantitative Methods

Prerequisite(s): Successful completion of DScOT first semester Courses.

Includes in-depth discussion and analysis of the research process including measurement theory, experimental design, hypothesis construction and testing, critical evaluation of research, rating scales, sampling, indices of validity and reliability, statistical analysis, and the appropriate use and interpretation of statistical tests.

6331 Evaluation and Intervention: Burn and Trauma Rehabilitation

Prerequisite(s): Successful completion of DScOT semesters I & II courses.

Focuses on the evaluation and intervention involved in burn and trauma rehabilitation as it relates to occupational therapy practice. Special emphasis is placed upon assessment and intervention to minimize devastating and lifelong disability and maximize patient functional outcomes both in the clinic and operational environment.

6333 Evaluation and Intervention: Traumatic Brain Injury Rehabilitation

Prerequisite(s): Successful completion of DScOT semesters I & II courses.

Focuses on evaluating functional, cognitive, and social performance in TBI and includes intervention in ADLs/IADLs and cognitive retraining, and assesses social, behavioral and emotional difficulties.

6336 Aspects of Pharmacology, Complementary and Alternative Medicine, and Nutrition in Occupational Therapy

Prerequisite(s): Successful completion of DScOT semesters I & II courses.

Focuses on the role and relationship of nutrition, pharmacology, and complementary/alternative

medicine in the treatment of specific populations by occupational therapists where emphasis is placed on medical indications and potential effects of drugs and alternative/complementary medicine as well as nutrition on occupational therapy interventions.

6337 Field Research for Occupational Therapy

Prerequisite(s): Successful completion of DScOT semesters I & II courses.

Builds upon the student's familiarity with the occupational therapy knowledge base, quantitative and qualitative research methodologies, and critical/clinical reasoning and includes the development of a clinical research question, completion of a comprehensive literature review/systematic review, and writing a research protocol that includes informed consent documents.

6341 Evaluation and Treatment of Upper-Extremity Conditions

Prerequisite(s): Successful completion of DScOT semesters I, II, and III courses.

Emphasizes the evaluation, diagnosing, and treatment of the upper-extremity injuries or diseases of patients presented to occupational therapy. Provides fifty-six hours of didactics including all diagnoses related to upper-extremity trauma and disease. Includes pathophysiology of wounds, arthritides, radiology, laboratory tests, and pharmacology.

6342 Upper Extremity Conditions Residency

Prerequisite(s): Successful completion of DScOT semesters I, II, and III courses.

This is a four-month residency emphasizing the clinical evaluation and treatment of the upper-extremity injured or diseased patient presenting to occupational therapy, under the mentorship of an orthopedic surgeon.

6344 Advanced Professional Paper Project

Prerequisite(s): Successful completion of DScOT semesters I, II, and III courses.

Focuses on the completion of the manuscript from the clinical research project with the goal of publication in a peer-reviewed journal and presentation to the occupational therapy community.

PHYSICAL THERAPY (PT)

6107 Emerging Topics in Physical Therapy

Prerequisite(s): Semester II courses.

The purpose of this course is to provide the students with lectures and interaction with a distinguished visiting professor. The topics and scholars are chosen annually by the faculty. Typically two visiting scholars provide a daylong interaction with the students. Topics include current issues in the practice and profession of physical therapy.

6120 Evidence Based Practice I

The purpose of this course is to prepare and equip uniformed services physical therapists with the knowledge, skills and abilities necessary to practice evidence-based physical therapy throughout their career. This is the first of a 4-part course (EBP I-IV) that develops the elements that serve as the foundation of evidence-based practice. EBP I will focus on the concepts of evidence-based practice with particular emphasis on literature search strategies and forming answerable clinical questions. In addition, the critical appraisal of literature will be fostered in conjunction with the material presented in Research Methods I.

6121 Evidence Based Practice II

Prerequisite(s): Semester I courses.

The purpose of this course is to prepare and equip uniformed services physical therapists with the knowledge, skills and abilities necessary to practice evidence-based physical therapy throughout their career. This is the second of a 4-part course (EBP I - IV) that develops the elements that serve as the foundation of evidence-based practice. This course builds upon the foundation established in EBP I. EBP II focuses on the concepts of evidence-based practice with particular emphasis on critical appraisal of the literature. The evaluative approach to diagnostic tests and screening tools

will prepare the students to judge the evidence on the accuracy and validity of diagnostic tests and the application of important diagnostic tests in the care of a specific patient. The evaluative approach to studies of treatment and intervention will prepare the student to judge the evidence on clinical trials and systematic reviews. In addition, discussions on how the clinician proceeds in the absence of evidence will occur. The focus of this course will be on the tests and intervention used in patients with musculoskeletal disorders.

6122 Evidence Based Practice III

Prerequisite(s): Semester III courses.

The purpose of this course is to prepare and equip uniformed services physical therapists with the knowledge, skills and abilities necessary to practice evidence-based physical therapy throughout their career. This is the third installment of a four-part course (EBP I-IV) that develops the elements that serve as the foundation of evidence-based practice. This course builds upon the foundation established in EBP I and II. EBP III focuses on the concepts of evidence-based practice with particular emphasis in EBP I and II. EBP III focuses on the concepts of evidence-based practice with particular emphasis on critical appraisal of the literature. The evaluative approach to appraising the studies on prognosis and the evaluation of harm will prepare students to judge the evidence on the natural history of medical conditions and risk of harm from select pharmacological and therapeutic interventions. The focus of this course will be on the tests, interventions, and prognosis in patients with neurological and cardiopulmonary disorders.

6142 Clinical Medicine III

Prerequisite(s): Semester II courses.

A variety of clinical medicine topics to include adult neurology, pediatric neurology, management of cognitive disorders, and mechanisms and disorders of speech. Invited subject matter experts from BAMC and the surrounding medical community will provide many of the lectures.

6151 Pharmacology for Physical Therapists

Prerequisite(s): Semester I courses.

The purpose of this course is to prepare uniformed services physical therapists for their role as physician extenders by providing instruction in general pharmacologic principles, drugs prescribed by physical therapists, drugs with significant impact on physical therapy practice and issues related to drug prescription.

6153 Orthotic and Prosthetic Interventions

Prerequisite(s): Semester I courses.

Functional and surgical anatomy of upper and lower member amputations and conditions requiring upper/lower member and spinal orthotic intervention are presented. Physiology/pathophysiology of upper and lower member amputations to include predisposing and complicating factors of traumatic and surgical amputations as well as etiology and response to treatment are covered. The physiologic effects of and response to upper/lower member and spinal orthotic intervention are discussed. Conditions requiring amputation intervention and orthotic use are presented and the biomechanical principles of prosthetic and orthotic fabrication are outlined as are the indications for their selection and use. All phases of upper/lower amputee management are covered in depth and include: preoperative phase, early postoperative phase, rehabilitative phase, and prosthetic fitting phase. Psychomotor tasks related to the upper/lower amputee and the upper/lower member and spinal orthotic patient care are practiced. Discharge planning and self-care/prevention techniques for the amputee and orthotic patient are discussed.

6182 Injury Control and Prevention

Prerequisite(s): Semester III courses.

This course is designed to explore methods to control/prevent musculoskeletal injuries in physical training environments to include special populations training. It will introduce students to the epidemiology of musculoskeletal physical training injuries, explore intrinsic and extrinsic risk factor for injury as identified in the literature and teach students how to develop an Injury Control Program utilizing the five basic steps of surveillance, research, intervention, outcomes measurement/program monitoring and program modification.

6204 Diagnostic Imaging and Procedures

Prerequisite(s): Semester I courses.

An eclectic collection of topics related to issues in radiology and nuclear medicine. The emphasis is placed on musculoskeletal imaging with plain films, CT scans and MRI. In addition instruction in medical laboratory diagnostic tests for physical therapists is provided. Lecture and laboratory work in electrophysiologic testing (EMG & NCV) is conducted.

6206 Cardiopulmonary Physical Therapy

Prerequisite(s): Semester II courses.

The purpose of this course is to prepare you to consider the cardiovascular system an integral component of all patients, not solely those patients who have manifest cardiovascular disease. Every patient that you will encounter will have an impairment that is affecting the cardiopulmonary system in varying degrees. A firm understanding of the principles presented in this course will provide you with a framework to address all patient types from orthopaedic, neurologic, pediatric or cardiopulmonary. The primary emphasis is how therapeutic exercise can be used in the prevention and treatment of cardiovascular disease, including the effects of exercise on other established risk factors. You will receive instruction in principles of cardiopulmonary exercise physiology and how these principles can help guide you as you prescribe exercise in a variety of patients. Physical Therapy assessment of patients with cardiovascular disease is addressed, as are the diagnostic imaging, and the medical (including pharmacological) and surgical management of these patients. Recommended staffing and operation of a cardiac rehabilitation service is presented, and techniques to maximize patient compliance with the Physical Therapy prescription are reviewed.

6208 Lifespan Physical Therapy

Prerequisite(s): Semester III courses.

Physical therapy examination, evaluation, diagnosis, prognosis, and intervention in pediatric and geriatric clients with neuromusculoskeletal disorders. A framework of normal development and aging will be presented and serve as a course foundation.

6209 Primary Care Musculoskeletal Physical Therapy

Prerequisite(s): Semester III courses.

To provide lectures and lab experiences on advanced techniques in differential diagnosis and intervention particularly in primary care settings. This course will expand on the lecture and lab material taught in the first three semesters. The emphasis will be on topics in musculoskeletal differential diagnosis. In addition, selected topics and impairments seen primarily in the aging population will be covered.

6212 Neuroanatomy

A discussion of the normal anatomy of the brain and spinal cord and their supporting structures. Introduction to the Pain and Temperature, Discriminatory Touch and Conscious Proprioception, and Pyramidal Motor Pathways. In depth study of the microscopic structures of the central nervous system. A problem solving approach to fundamental neuroanatomical pathologies.

6230 Neuromuscular Physiology

This course will consist of a study of normal neuromuscular physiology. The emphasis will be on the cellular functions of neurons and muscle fibers. The goals of the course are to provide foundational knowledge about human function, enhance the student's ability to make quantitative and qualitative observations, and facilitate understanding of the clinical sciences.

6231 Clinical Pathophysiology

Fundamental concepts of pathophysiological processes of injury and disease as related to causes, mechanisms, clinical manifestations, diagnostic techniques and management.

6232 Physiology of the Oxygen Delivery System

Prerequisite(s): Semester I courses.

This course focuses on the uptake, transport and utilization of oxygen by the tissues. We therefore will be studying the cardiopulmonary systems and cellular metabolism. The course plan is to progress from an understanding of resting conditions to aerobic exercise conditions. This course will serve as a prelude to your study of cardiopulmonary rehabilitation.

6240 Clinical Medicine I

This class consists of topics in pathology, medicine, and surgery with emphasis on signs and symptoms resulting from abnormalities, disease, or trauma that produce disorders of movement. This course is taught primarily by lectures given by guest speakers (subject matter experts) including physicians, physician assistants, a physical therapist who specializes in burn care, medical social worker, dietician and occupational therapist. Program faculty members present the lectures on arthritis. Group discussion of case scenarios is part of the instructional hours on arthritis.

6241 Clinical Medicine II

Prerequisite(s): Semester I courses.

An eclectic collection of topics related to general and specific review of systems, somatic and drug treatment in psychiatry, substance abuse, endocrine disorders, mastectomy, cultural variations and musculoskeletal dysfunction associated with pregnancy.

6250 Introduction to Therapeutic Intervention

This course is comprised of a wide spectrum of introductory material regarding therapeutic interventions. This course will include topics on planning treatment programs, clinical teaching and patient education, therapeutic exercise, introduction to joint and soft tissue mobilization and manipulations, bandaging, basic ambulation, and wheelchairs. This course consists of lecture and lab periods.

6252 Physical Agent Interventions

Prerequisite(s): Semester I courses.

Physical Agents are used in Physical Therapy and rehabilitation to reduce pain, enhance healing, improve motion and assist in the recruitment of muscle activity. It is important for the therapist to have a solid understanding of the normal physiology of the cardiovascular and neuromuscular system prior to using an agent that can alter the function of these tissues. Your background in the physiology of healing and of modulation of pain serves as a basis for the rationale of using any physical agent. This course provides the foundation needed in clinical decision making regarding patient care options and physical agents.

6280 Executive Skills for Physical Therapists

Prerequisite(s): Semester III courses.

This course is designed to help junior officer physical therapists develop their executive skills for future clinic leadership/management and for their future leadership positions. The course is the study of management leadership theory and concepts drawn from the behavioral and social sciences and applied to leadership and management in the diagnosis, prediction and analysis of human behavior in organizations. In addition to helping students understand and address change in their own leadership styles, the course addresses change theory, strategic planning, and consulting. The course also includes elements of clinic design and management, continuous quality improvement, legal and legislative issues in physical therapy, and consulting/health promotion. This course is specific to graduates' needs as new Army/Air Force/Navy/Public Health physical therapists. The course has been tailored to the work of a physical therapy professional, where a large part of the position is dealing with people, including patients, personnel, supervisors, third party payers and other professionals. These same skills developed, as a junior officer, will serve the officer well in various future assignments with increased levels of responsibilities. This Executive Skills course is also closely aligned with the LAMP (leadership, administration, management preparation) skills identified by the APTA Section on Administration.

6281 Physical Therapy in Deployed Environments

Prerequisite(s): Semester III courses.

This course is designed to prepare uniformed service physical therapy students for their roles and responsibilities while deployed for combat operations and support/sustainment operations. The purpose of this course is derived from the principle of “Sports Medicine on the Battlefield... operational readiness through injury prevention and early intervention” developed at the United States Military Academy, West Point, New York. The concepts for managing injured elite athletes and returning them to the playing field as quickly and safely as possible share the goal of returning injured soldiers to their units in garrison or combat. This course provides students an opportunity to develop core-advanced competencies in orthopaedic triage and management of acute musculoskeletal and neurological injuries while deployed. These same evidence-based competencies are used to return injured soldiers - “tactical athletes” - to a high level of military technical and tactical readiness. This course also brings students to an advanced level of understanding in general medicine topics (triage, differential diagnosis, and orthopaedics) and methods of tracking procedures and patient outcomes.

6300 Physical Therapy Fundamentals

This course is comprised of a wide spectrum of introductory material including biomechanics and kinesiology, components of a basic exam, goniometry, manual muscle testing, neuromuscular screening, vital signs, cardiopulmonary resuscitation, patient management issues, handling and positioning of patients, written and oral communication, medical records, professional organizations and responsibilities, and professional ethics. It will also include an orientation to the entire Army-Baylor University Physical Therapy Program.

6310 Anatomy I

A discussion of the normal anatomy of epithelial, connective, muscle, and nervous tissues including osteology and arthrology. A discussion of the peripheral and the autonomic nervous systems. An in depth study of the gluteal, thigh, knee, leg and foot regions including extensive dissection and prosection study of each region.

6313 Neuroscience

Prerequisite(s): Semester II courses.

The purpose of this course is to foster understanding of human perception and movement from a basic science level. This course will complement the Neuroanatomy course and will emphasize functional aspects of various neural systems. Whenever possible, clinical conditions related to CNS function and anatomy will be discussed. Both a conceptual understanding of the principles of CNS organization and some memorization of specific nuclei and pathways will be required. Another goal of this course is to develop a solid neuroscience foundation, which will strengthen insight into concepts presented in the Neuromuscular Physical Therapy and the Lifespan Physical Therapy courses.

6354 Advanced Therapeutic Interventions

Prerequisite(s): Semester III courses.

The purpose of this course is to prepare and equip physical therapists with advanced therapeutic intervention skills to be used in the management of the musculoskeletal system. Short lectures will be presented to emphasize the key issues and current evidence regarding manual therapy and therapeutic exercise. An emphasis will be placed on skill advancement for clinical decision-making, developing and progressing integrated treatment plans, and honing the motor skills necessary for the effective application of spinal and extremity manipulation and exercise. Case scenarios will be presented in a small group format. Key elements of the history and physical examination as they relate to the musculoskeletal system and clinical decision-making will be emphasized. Students will be required to demonstrate with proficiency a variety of manipulation and exercise procedures to their small group that would be indicated within the context of the case scenario. In addition, skill laboratories, which provide a core set of manipulative and exercise procedures for each body region, will be presented and practiced to proficiency.

6371 Research Methods II

Prerequisite(s): Semester III courses.

A combination of lecture and laboratory experiences emphasizing the principles of critical analysis of published research is presented. Students will conduct a clinically relevant research project. A Faculty Research Advisory Committee assists the students in conducting the projects, analyzing the data, interpreting the data, preparation of written and oral presentations of the finding, and in the preparation of a follow-on research proposal.

6402 Musculoskeletal Physical Therapy II - Spine

Prerequisite(s): Semester I courses.

An introduction to the biomechanics, kinesiology, and specific terminology of spinal movement. An integrated model of physical therapy evaluation of spinal disorders will be presented. A treatment regimen of manual therapy (muscle energy techniques, mobilization, and manipulation) combined with patient education and exercise will build upon the models previously presented in PT 6150 and PT 6501 courses.

6405 Neuromuscular Physical Therapy

Prerequisite(s): Semester II courses.

The physical therapy examination, evaluation, and intervention of clients with neurological conditions, including, but not limited to: spinal cord injury, stroke, traumatic brain injury, multiple sclerosis and Parkinson's disease. Therapeutic interventions for clients with neurological impairment to be discussed include, but are not limited to: ADL and functional training, assistive/adaptive devices, electrical stimulation, biofeedback, therapeutic exercise including PNF, facilitation/inhibition procedures, gait and balance training, orthoses, hydrotherapy, patient and family education.

6411 Anatomy II

Prerequisite(s): Semester I courses.

An in depth study of the back, thoracic wall, abdominal wall, anterior thoraco-lumbar spine, anterior cervical spine, shoulder, arm, forearm and hand. A discussion of the facial, TMJ structures, and the genitourinary system in an appropriate context for a physical therapist.

6470 Research Methods I

This course is an in-depth analysis of Research Design, Statistics, and Critical Appraisal of Research Literature. This course is designed to introduce students to the basic and advanced concepts, techniques, and technologies used in the scientific inquiry of applied clinical research. Topics to be investigated include the research process and the scientific method, measurement theory, indices of validity and reliability, hypothesis construction and testing, constructing a clinical question, sampling, data collection and coding schemes, experimental design, a hierarchy of evidence, survey research, and guides for critical appraisal of research.

6501 Musculoskeletal Physical Therapy I - Lower Member

This course includes the biomechanics and kinesiology of the Lower Member. This course coupled with the Anatomy of the Lower Member, is designed to prepare clinicians to competently examine a patient with lower extremity dysfunction, evaluate the information and establish a clinical diagnosis, and develop a physical therapy intervention plan. Consequently, a large portion of the time will be spent in the laboratory setting practicing palpation skills, clinical tests and therapeutic treatment techniques.

6503 Musculoskeletal Physical Therapy III - Upper Member

Prerequisite(s): Semester I courses.

This course consists of approximately forty-six hours of lecture and lab on biomechanics, examination, and treatment of the shoulder and fifty-six hours of lecture and lab on biomechanics, examination, and treatment of the elbow, wrist, and hand. The purpose of this course is to prepare the physical therapy student to independently perform an examination and design an appropriate intervention program for a patient with upper extremity disorders. To meet this objective, the student must have a thorough understanding of the anatomy and biomechanics of the upper member. In addition, the student needs to be aware of the many conditions that can cause upper extremity

problems and the principles followed in the design of the intervention program. This course will systematically provide instruction in the above areas.

6760 Physical Therapy Practice I

Prerequisite(s): Semester II courses.

A full-time eight-week clinical experience at carefully selected medical treatment facilities occurring at the conclusion of the second semester. The emphasis of the experience is in the management of patients in a musculoskeletal, acute care, or in-patient orthopedic rehabilitation environments. A heavy emphasis of this clinical experience is for student integration of fundamental physical therapy skills and management of the musculoskeletal system.

6V98 Physical Therapy Internship

Prerequisite(s): Semester IV courses and successful completion of comprehensive oral examinations.

Directed experience in physical therapy clinical settings. The internship experience is designed to broaden and increase the depth of clinical practice to bring the student to the level of an independently practicing doctor of physical therapy. In order to achieve this level of experience, the internship will require both focused and non-focused experiences in a wide range of clinical practice environments.

PHYSICAL THERAPY (DOCTORAL) (PHT)

5191 Special Topics: Seminar I

Concentrated study of a particular topic in physical therapy.

5192 Special Topics: Seminar II

Concentrated study of a particular topic in physical therapy.

5193 Special Topics: Seminar III

Concentrated study of a particular topic in physical therapy.

5194 Special Topics: Seminar IV

Concentrated study of a particular topic in physical therapy.

5230 Essentials of Evidence-Based Practice and Clinical Research

The integration of best evidence and best practice concepts as well as advanced concepts, techniques, and technologies used for the scientific inquiry of applied clinical research. Emphasis is placed on refining research designs for individual projects and preparing a research protocol for approval by the Institutional Review Board.

5241 Differential Diagnosis in Orthopaedic Physical Therapy

Discussion of the subjective and objective findings of somatic and visceral disorders of the various systems with reference to their influence on physical therapy evaluation and rehabilitation or the need for referral to a physician.

5321 Aspects of Pharmacology and Nutrition in Physical Therapy

Role and relationship of nutrition and drug therapy in the treatment of specific populations treated by physical therapists; medical indications and potential effects of drugs on physical therapy treatments; nutritional principles related to exercise.

5323 Pathophysiology of Therapeutic Exercise

An in-depth exploration of exercise physiology and pathophysiology related to the cardiovascular, respiratory, and musculoskeletal systems. Emphasis will be placed on utilizing this information as a basis for evaluating patients with selected pathologies commonly seen in physical therapy, and designing and implementing treatment programs.

5326 Functional Physical Therapy Anatomy and Biomechanics: Lower Quarter

Advanced dissection course in human gross anatomy with emphasis on the origin of function. Ligaments, bones, and bones are dissected and their interrelationships emphasized especially with the lower extremities. All tissues and joint structures are analyzed from an anatomical as well as functional perspective.

5327 Functional Physical Therapy Anatomy and Biomechanics: Upper Quarter

Advanced dissection course in human gross anatomy with emphasis on the origin of function. Ligaments, bones, and muscles are dissected and their interrelationships emphasized especially with the upper extremities. All tissues and joint structures are analyzed from an anatomical as well as functional perspective.

5331 Quantitative Evaluation

Assessment of the uses, advantages, validity, reliability, and sources of error of evaluation procedures in physical therapy.

5349 Radiology for Physical Therapists

Familiarizes the physical therapist with procedures used in radiology related to neuromuscular and musculoskeletal disorders. Emphasis placed on correlation of radiological findings with clinical signs and symptoms.

5382 Evaluation and Mobilization: Lower Quarter

Interpretation of basic science knowledge and development of clinical skills needed to complete a differential evaluation and proceed to effective treatment of lower quarter dysfunction.

5383 Evaluation and Mobilization: Upper Quarter

Interpretation of basic science knowledge and development of clinical skills needed to complete a differential evaluation and proceed to effective treatment of upper quarter dysfunction.

5392 Evaluation and Mobilization: Advanced Lower Quarter

Review of basic science knowledge and refinement of clinical skills needed to complete a differential evaluation and proceed to effective treatment of lower quarter dysfunction. Development of advanced clinical skills in treatment progression and application of combined movements, and grade V mobilization techniques (manipulation) which will increase efficiency, accuracy, and clinical outcomes.

5393 Evaluation and Mobilization: Advanced Upper Quarter

Review of basic science knowledge and refinement of clinical skills needed to complete a differential evaluation and proceed to effective treatment of upper quarter dysfunction. Development of advanced clinical skills in treatment progression and application of combined movements, and grade V mobilization techniques (manipulation) which will increase efficiency, accuracy, and clinical outcomes.

6101 Advanced Practicum in Physical Therapy

Supervised experience in a specialized area of interest such as administration, teaching, research, or advanced evaluation and treatment procedures.

6111 Advanced Orthopaedic/Sports Medicine and Surgery for Physical Therapists

Review of the orthopaedic surgeon's model of evaluation and treatment of musculoskeletal injuries. Update current orthopaedic and sports medicine surgical procedures and rehabilitation guidelines.

6150 Orthopaedic Lecture Series I

The Orthopaedic Lecture Series, developed for the West Point Joint & Soft Tissue Trauma Fellowship, provides lectures from some of the top orthopaedic and rehabilitation specialists in the country. The residents are invited to present their research at this forum, which prepares them to present in front of leading experts in orthopaedics and sports medicine.

6151 Orthopaedic Lecture Series II

A continuation of The Orthopaedic Lecture Series, developed for the West Point Joint and Soft Tissue Trauma Fellowship, which provides lectures from some of the top orthopaedic and rehabilitation specialists in the country. The residents are invited to present their research at this forum, which prepares them to present in front of leading experts in orthopaedics and sports medicine.

6152 Orthopaedic Lecture Series III

A continuation of courses PHT 6150 and 6151. The Orthopaedic Lecture Series, developed for the West Point Joint and Soft Tissue Trauma Fellowship, provides lectures from some of the top orthopaedic and rehabilitation specialists in the country. The residents are invited to present their research at this forum, which prepares them to present in front of leading experts in orthopaedics and sports medicine.

6191 Independent Study I

Variable content. Clinical practicum with direct one-to-one clinical mentoring with specialization in advanced orthopedic physical therapy.

6192 Independent Study II

Variable content. Clinical practicum with direct one-to-one clinical mentoring with specialization in advanced orthopedic physical therapy.

6193 Independent Study III

Variable content. Clinical practicum with direct one-to-one clinical mentoring with specialization in advanced orthopedic physical therapy.

6194 Independent Study IV

Variable content. Clinical practicum with direct one-to-one clinical mentoring with specialization in advanced orthopedic physical therapy.

6292 Special Topics: Seminar I

Concentrated study of a particular topic in sports medicine as it relates to the overall health and performance of an athlete/soldier.

6293 Special Topics: Seminar II

Concentrated study of a particular topic in sports medicine as it relates to the overall health and performance of an athlete/soldier.

6294 Differential Diagnosis in Sports Medicine

Discussion of subjective and objective findings of somatic and visceral disorders of the various systems with reference to their influence on physical therapy evaluation and rehabilitation or the need for referral to a physician.

6310 Soft Tissue and Bone Pathophysiology

Fundamental concepts of pathophysiological processes of injury and disease as related to causes, mechanisms, clinical manifestations, diagnostic techniques and management. Basic science of soft tissue and bone pathophysiology with emphasis on relationship to clinical/field evaluation, intervention and post-operative rehabilitation.

6320 Athletic Injuries I

Basic and advanced concepts for the recognition, examination, diagnosis, management and prevention of injuries. Injuries are presented in general terms as well as sport specific. Classroom and practical exposure to acute and chronic injuries, to include injury prevention are addressed.

6321 Athletic Injuries II

A continuation of PHT 6320 exposing the residents to advanced concepts for the recognition, examination, diagnosis, management and prevention of athletic injuries. Injuries are presented in general terms as well as sport specific. Classroom and practical exposure to acute and chronic injuries, to include injury prevention are addressed.

6332 Field Research in Physical Therapy

Designs, data collection techniques, and analyses for field research in physical therapy. Critical application of surveys, observational studies, case studies, and single case designs to clinical field problems in physical therapy. Emphasis is on the development of analytical skills requisite for field research in physical therapy.

6333 Advanced Professional Paper Project

This course focuses on methods of evaluating health status and outcomes of physical therapy intervention. Design, measurement and analysis are covered. This course is designed to guide the residents in conducting and completing original clinical research. Review of the literature of selected topics, pilot research studies, and the course instructor may approve independent research projects. Focus will be placed on assisting the residents to be participants in the research process.

6340 Functional Anatomy and Biomechanics I

Advanced course in functional anatomy and biomechanics of the upper/lower quarter and spine with emphasis on orthopedic and sports related trauma and pathology. The course will correlate basic science with clinical concepts for diagnosis, intervention and injury prevention. All tissues and joint structures are analyzed from an anatomical as well as functional perspective.

6341 Functional Anatomy and Biomechanics II

A continuation of PHT 6340. Advanced course in functional anatomy and biomechanics of the upper/lower quarter and spine with emphasis on orthopedic and sports related trauma and pathology. The course will correlate basic science with clinical concepts for diagnosis, intervention and injury prevention. All tissues and joint structures are analyzed from an anatomical as well as functional perspective.

6379 Advanced Radiology in Sports Medicine

Familiarize with procedures used in radiology related to neuromuscular and musculoskeletal disorders. Emphasis placed on correlation of radiological findings with clinical signs and symptoms.

6384 Independent Study

Concentrated study of a particular topic related to musculoskeletal pathology in sports medicine.

6387 Research and Statistics I

This course is designed to introduce residents to advanced concepts, techniques, and technologies used in the scientific inquiry of applied clinical research, with the emphasis on sports medicine. Topics to be investigated include measurement theory and the scientific method, the research process, experimental design, hypothesis construction and testing, critical evaluation of physical therapy research, sampling, indices of validity and reliability, parametric and non-parametric statistics, data collection, and coding schemes. This course focuses on methods of evaluating health status and outcomes of physical therapy intervention. Design, measurement and analysis are covered. This course is also designed to guide the residents in conducting and completing original clinical research. Review of the literature of selected topics, pilot research studies, independent research projects may be approved by the course instructor. Focus will be placed on assisting the residents to be participants in the research process.

6388 Research and Statistics II

A continuation of PHT 6387 and is designed to further introduce residents to advanced concepts, techniques, and technologies used in the scientific inquiry of applied clinical research, with the emphasis on sports medicine. Topics to be investigated include measurement theory and the scientific method, the research process, experimental design, hypothesis construction and testing, critical evaluation of physical therapy research, sampling, indices of validity and reliability, parametric and non-parametric statistics, data collection, and coding schemes. This course focuses on methods of evaluating health status and outcomes of physical therapy intervention. Design, measurement and analysis are covered. This course is also designed to guide the residents in conducting and completing original clinical research. Review of the literature topics, pilot research studies, independent research

projects may be approved by the course instructor. Focus will be placed on assisting the residents to be participants in the research process. Dissemination of research findings in the form of manuscripts, poster and platform presentations will also be covered.

6389 Research and Statistics III

A continuation of PHT 6387 and 6388. This course focuses on the dissemination of research findings in the form of manuscripts, poster and platform presentations will also be covered.

6391 Clinical Residency I

Clinical practicum with specialization in orthopaedic physical therapy emphasizing advanced orthopaedic evaluation and treatment procedures in the provision of direct patient, orthopaedic care.

6392 Clinical Residency II

Clinical practicum with specialization in orthopaedic physical therapy emphasizing advanced orthopaedic evaluation and treatment procedures in the provision of direct patient, orthopaedic care.

6393 Clinical Residency III

Clinical practicum with specialization in orthopaedic physical therapy emphasizing advanced orthopaedic evaluation and treatment procedures in the provision of direct patient, orthopaedic care.

6394 Clinical Residency IV

Clinical practicum with specialization in orthopaedic physical therapy emphasizing advanced orthopaedic evaluation and treatment procedures in the provision of direct outpatient, orthopaedic care.

6395 Advanced Sports Medicine Practicum I

Field and courtside basic and advanced practical applications for the recognition, examination, diagnosis, and management of athletic injuries. Coverage for an athletic event may be with another faculty member or independently (usually not until third or fourth semesters). Athletic venues will consist of USMA intramural and inter-collegiate sports. Residents will also be sent on TDY to cover Army Sports at trial camps, Armed Forces, National and CISM competitions. TDYs will be in CONUS and OCONUS.

6396 Advanced Sports Medicine Practicum II

A continuation of PHT 6395 for field and courtside basic and advanced practical applications for the recognition, examination, diagnosis, and management of athletic injuries. Coverage for an athletic event may be with another faculty member or independently (usually not until third or fourth semesters). Athletic venues will consist of USMA intramural and inter-collegiate sports. Residents will also be sent on TDY to cover Army Sports at trial camps, Armed Forces, National and CISM competitions. TDYs will be in CONUS and OCONUS.

6397 Advanced Sports Medicine Practicum III

Continuation of PHT 6395 and 6396. Field and courtside basic and advanced practical applications for the recognition examination, diagnosis, and management of athletic injuries. Coverage for an athletic event may be with another faculty member or independently (usually not until third and fourth semesters). Athletic venues will consist of USMA intramural and inter-collegiate sports. Residents will also be sent on TDY to cover Army Sports at trial camps, Armed Forces, National and CISM competitions. TDYs will be in CONUS and OCONUS.

The Faculty



GRADUATE FACULTY

Members of the Graduate Faculty and their program affiliations are listed on the Graduate School website: <http://www.baylor.edu/graduate/index.php?id=42290>. The procedures for appointment of faculty to membership in the Graduate Faculty, as approved by the Graduate Council, are available on the Graduate School website.

The following rights and responsibilities are reserved to members of the Graduate Faculty: (1) to serve on standing committees of the Graduate School, (2) to chair dissertation or thesis committees, and (3) to serve as an official member of a dissertation or thesis committee.

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