

PHYSICIAN ASSISTANT, DSC.P.A.

- Emergency Medicine, DSc.P.A. (<https://catalog.baylor.edu/graduate-school/affiliated-programs/physician-assistant/emergency-medicine-dscpa/>)
- Orthopedics, DSc.P.A. (<https://catalog.baylor.edu/graduate-school/affiliated-programs/physician-assistant/orthopaedics-dscpa/>)
- Surgery and Critical Care, DSc.P.A. (<https://catalog.baylor.edu/graduate-school/affiliated-programs/physician-assistant/general-surgery-dscpa/>)

Clinical Orthopaedics (MCO)

MCO 6350 Introduction to Orthopaedic Clinical Evaluation and Procedures (3)

This course introduces advanced principles of orthopaedic evaluation, diagnosis, and treatment necessary for regular clinical application, applying evidence-based medicine to the management of orthopaedic patients, and focusing on extremity anatomy, biomechanical pathology, physical examination, diagnostic imaging, and rehabilitation methods.

MCO 6351 Evidence Based Orthopaedic Care (3)

This course introduces the application of evidence-based medicine to the management of orthopaedic complaints, focusing on assessing current peer-reviewed journal articles for sound research design and valid conclusions so as to apply lessons learned from the literature to individual patients and patient populations.

MCO 6352 Orthopaedic Evaluation and Management of Spine Disorders (3)

This course introduces advanced principles of orthopaedic evaluation, diagnosis, and treatment necessary for regular clinical application, applying evidence-based medicine to the management of orthopaedic spine complaints, and focusing on spine anatomy, biomechanical pathology, physical examination, diagnostic imaging, and classification of common select fractures of the spine.

MCO 6353 Evaluation and Management of Neurologic Disorders (3)

This course introduces advanced principles of orthopaedic evaluation, diagnosis and treatment necessary for regular clinical application, applying evidence-based medicine to the management of neurologic complaints, and focusing on spine and head anatomy, biomechanical pathology, physical examination, diagnostic imaging, laboratory studies, and classification of common select fractures of the head and spine.

MCO 6354 Evaluation and Management of Pediatric Orthopaedic Disorders (3)

This course introduces advanced principles of orthopaedic evaluation, diagnosis, and treatment necessary for regular clinical application, applying evidence-based medicine to the management of pediatric orthopaedic complaints, and focusing on general anatomy, biomechanical pathology, physical examination, diagnostic imaging, laboratory studies, congenital disorders, and classification of pediatric fractures.

MCO 6355 Advanced Orthopaedic Clinical Evaluation and Procedures (3)

This course furthers critical principles of orthopaedic evaluation, diagnosis, and treatment necessary for regular clinical application, applying evidence-based medicine to the management of orthopaedic patients, and focusing on extremity anatomy, biomechanical pathology, physical examination, diagnostic imaging, and rehabilitation methods.

MCO 6356 Techniques for Medical Research Presentation (3)

Pre-requisite(s): CITI training only

This course introduces various techniques for medical research presentation. It takes information obtained in developing a high-quality clinical research project, demographic and outcome measure data, and statistical analysis, and generates oral and written products for presentation at local and national venues.

MCO 6402 Orthopaedic Trauma Rotation (4)

This is a two-month clinical and surgical rotation on service with a fellowship-trained orthopaedic traumatologist and a team of surgical residents.

MCO 6410 Introduction to Upper Extremity Sports Injury Management (4)

This course introduces advanced principles of orthopaedic evaluation, diagnosis, and treatment necessary for regular clinical application, applying evidence-based medicine to the management of patient athletes, and focusing on upper extremity anatomy, biomechanical pathology, physical examination, diagnostic imaging, and rehabilitation methods.

MCO 6411 Introduction to Lower Extremity Sports Injury Management (4)

This course introduces advanced principles of orthopaedic evaluation, diagnosis, and treatment necessary for regular clinical application, applying evidence-based medicine to the management of patient athletes, and focusing on lower extremity anatomy, biomechanical pathology, physical examination, diagnostic imaging, and rehabilitation methods.

MCO 6412 Evaluation and Management of Hand and Elbow Disorders (4)

This course introduces advanced principles of orthopaedic evaluation, diagnosis, and treatment necessary for regular clinical application; applies evidence-based medicine to the management of orthopaedic upper extremity complaints; and focuses on microsurgery, upper extremity anatomy, biomechanical pathology, physical examination, diagnostic imaging, and classification of common select fractures and dislocations of the upper extremity.

MCO 6413 Evaluation and Management of Foot and Ankle Disorders (4)

This course introduces advanced principles of orthopaedic evaluation, diagnosis, and treatment necessary for regular clinical application, applying evidence-based medicine to the management of orthopaedic complaints, and focusing on lower extremity anatomy, biomechanical pathology, physical examination, diagnostic imaging, and classification of common select fractures and dislocations of the leg, ankle, and foot.

MCO 6414 Evaluation and Management of Complex Wounds (4)

This course introduces advanced principles of orthopaedic evaluation, diagnosis, and treatment necessary for regular clinical application, applying evidence-based medicine to the management of patients with complex wounds, and focusing on general anatomy, biochemistry, physical examination, diagnostic imaging, laboratory studies, and medical and surgical management of complex wounds.

MCO 6415 Evaluation of Joint Arthritis and Trauma Managed with Joint Reconstruction (4)

This course introduces advanced principles of orthopaedic evaluation, diagnosis, and treatment necessary for regular clinical application, applying evidence-based medicine to the management of orthopaedic complaints, and focusing on general anatomy, biomechanical pathology, physical examination, diagnostic imaging, classification of periarticular fractures, and arthritis.

MCO 6416 Musculoskeletal Oncology Evaluation and Management (4)

This course introduces advanced principles of orthopaedic evaluation, diagnosis, and treatment necessary for regular clinical application, applying evidence-based medicine to the management of musculoskeletal neoplasms and infections, and focusing on general anatomy, biomechanical pathology, physical examination, diagnostic imaging, laboratory studies, and radiographic classification of oncologic lesions and pathologic fractures.

MCO 6417 Introduction to Evaluation and Management of Orthopaedic Trauma (4)

This course introduces advanced principles of orthopaedic evaluation, diagnosis, and treatment necessary for regular clinical application, applying evidence-based medicine to the management of musculoskeletal trauma, and focusing on general anatomy, biomechanical pathology, physical examination, diagnostic imaging, laboratory studies, and radiographic classification of orthopaedic trauma.

MCO 6418 Introduction to Evaluation and Management of General Trauma (4)

This course introduces advanced principles of surgical evaluation, diagnosis, and treatment necessary for regular clinical application, applying evidence-based medicine to the management of multisystem trauma, and focusing on general anatomy, biomechanical pathology, physical examination, diagnostic imaging, laboratory studies, and radiographic classification of multisystem trauma.

MCO 6419 Introduction to Critical Care Management (4)

This course introduces advanced principles of orthopaedic evaluation, diagnosis, and treatment necessary for regular clinical application, applying evidence-based medicine to the management of intensive care unit patients, and focusing on general anatomy, biomechanical pathology, physical examination, diagnostic imaging, laboratory studies, and medical management of critical patients.

MCO 6420 Advanced Sports Injury Management (4)

This course further examines critical principles of orthopaedic evaluation, diagnosis, and treatment necessary for regular clinical application, applying evidence-based medicine to the management of patient athletes, and focusing on extremity anatomy, biomechanical pathology, physical examination, diagnostic imaging, and rehabilitation methods.

MCO 6421 Advanced evaluation and management of orthopaedic trauma (4)

This course introduces advanced principles of orthopaedic evaluation, diagnosis, and treatment necessary for regular clinical application, applying evidence-based medicine to the management of musculoskeletal trauma, and focusing on general anatomy, biomechanical pathology, physical examination, diagnostic imaging, laboratory studies, and radiographic classification of orthopaedic trauma.

MCO 6422 Advanced Critical Care Management (4)

This course introduces advanced principles of orthopaedic evaluation, diagnosis, and treatment necessary for regular clinical application, applying evidence-based medicine to the management of intensive care unit patients, and focusing on general anatomy, biomechanical pathology, physical examination, diagnostic imaging, laboratory studies, and medical management of critical patients.

MCO 6423 Medical Research Design (4)

Pre-requisite(s): CITI training only

This course introduces medical research design, focusing on generating a testable research question, developing a research design that addresses the question, and conducting a literature review that supports the study design.

MCO 6424 Approaches to Medical Data Collection and Analysis (4)

Pre-requisite(s): CITI training only

This course introduces approaches to medical data collection and analysis, focusing on executing a research protocol, collecting outcome measures data, and then participating in the analysis of the data.

MCO 6425 Urgent Orthopaedic Evaluation (4)

This course introduces advanced principles of orthopaedic evaluation, diagnosis, and treatment necessary for regular clinical application, applying evidence-based medicine to the management of musculoskeletal trauma, and focusing on extremity anatomy, biomechanical pathology, physical examination, diagnostic imaging, laboratory studies, and radiographic classification of orthopaedic trauma.

MCO 6426 Advanced Joint Reconstruction (4)

Pre-requisite(s): MCO 6417

This course advances principles of orthopaedic evaluation, diagnosis, and treatment necessary for regular clinical application. It applies evidence-based medicine to the management of orthopaedic complaints. The course focuses on general anatomy, biomechanical pathology, physical examination, diagnostic imaging, classification of periarticular fractures, and arthritis.

Emergency Medicine (MEM)

MEM 6210 Emergency Airway, Anesthesia, and Pain Management (2)

Pre-requisite(s): MEM 6330

The MEM 6210 rotation orients the emergency medicine physician assistant (EMPA) to the concepts and application of emergency airway management, the spectrum of anesthesia, and pain management in emergency medicine. This is a comprehensive rotation composed of a two-week rotation within the hospital setting.

MEM 6211 Emergency Treatment of Orthopedic Injuries, Emergency Ultrasounds, and Emergency Radiology (2)

Pre-requisite(s): MEM 6330

Study of concepts of orthopedic conditions encountered in the emergency department.

MEM 6212 Toxicology and Oral Maxillary Facial Disorders (2)

Pre-requisite(s): MEM 6330

This rotation studies concepts of toxicological presentations and oral maxillary facial disorders encountered in the emergency department.

MEM 6213 Cardiovascular, Pulmonary, Hematologic, Oncologic, and Psychosocial Diseases and Disorders (2)

Pre-requisite(s): MEM 6330

The study of concepts of cardiovascular, pulmonary, hematologic, oncologic, and psychosocial diseases encountered in an emergency department environment.

MEM 6214 Gastrointestinal, Genitourinary, Obstetrics, and Gynecology Diseases (2)

Pre-requisite(s): MEM 6330

The study of concepts in gastrointestinal, genitourinary, obstetrics, and gynecology diseases encountered in an emergency department environment.

MEM 6215 Pediatric Non-Traumatic Musculoskeletal Disorders, Abuse, and Assault (2)

Pre-requisite(s): MEM 6330

The study of diseases, non-traumatic muscular skeletal disorders, assault and abuse in the pediatric emergency department patient.

MEM 6223 Advanced Cardiovascular, Pulmonary, Hematologic, Oncologic, and Psychosocial Disorders (2)

Pre-requisite(s): MEM 6213

The study of advanced concepts of cardiovascular, pulmonary, hematologic, oncologic, and psychosocial diseases encountered in an emergency department environment.

MEM 6224 Advanced Gastrointestinal, Genitourinary Obstetrics, and Gynecology Diseases (2)

Pre-requisite(s): MEM 6214

The study of advanced concepts in gastrointestinal, genitourinary, obstetrics, and gynecology diseases encountered in an emergency department environment.

MEM 6225 Advanced Pediatrics Non-Traumatic Musculoskeletal Disorders, Abuse, and Assault (2)

Pre-requisite(s): MEM 6215

The advanced study of diseases, non-traumatic muscular skeletal disorders, assault, and abuse in the pediatric emergency department patient.

MEM 6226 Advanced Emergency Wound Management, Environmental Injuries, and Trauma (2)

Pre-requisite(s): MEM 6216

The study of advanced concepts in wound management, environmental injuries, and trauma encountered in the emergency department.

MEM 6227 Advanced Infectious Disease, Endocrinology, and Neurology (2)

Pre-requisite(s): MEM 6217

The study of advanced concepts in infectious diseases, endocrinologic, and neurologic disorders that are encountered in an emergency department.

MEM 6233 Emergency Department 3 (2)

Pre-requisite(s): MEM 6330

General emergency medicine rotation to apply the concepts of medical practice in an emergency department setting.

MEM 6234 Emergency Department 4 (2)

Pre-requisite(s): MEM 6330

General emergency medicine rotation to apply the concepts of medical practice in an emergency department setting.

MEM 6235 Emergency Department 5 (2)

Pre-requisite(s): MEM 6330

General emergency medicine rotation to apply the concepts of medical practice in an emergency department setting.

MEM 6310 Medical Research Design (3)

Co-requisite(s): MEM 6330

This course introduces medical research design. This course focuses on generation of a testable research question, developing a research design that addresses the question and conducting a literature review that supports the study design.

MEM 6311 Approaches to Medical Data Collection and Analysis (3)

Pre-requisite(s): MEM 6310 and MEM 6330

This course introduces approaches to medical data collection and analysis. This course focuses on executing a research protocol, collecting outcome measures accompanying data analysis.

MEM 6312 Techniques for Medical Research and Presentation (3)

Pre-requisite(s): MEM 6311

This course introduces various techniques for medical research presentation. This course takes information obtained in developing a high-quality clinical research project, demographic and outcome measure data and statistical analysis and generates oral and written products for doctoral defense and presentation at local and national venues.

MEM 6322 Concepts of Emergency Medicine 3 (3)

Pre-requisite(s): MEM 6411

This didactic course provides foundational knowledge and skills for the physician assistant to practice in the specialty of emergency medicine. It will introduce emergency medicine physician assistants (EMPA) to the concepts of emergency stabilization, treatment, and resuscitation of common conditions and concerns seen in the emergency department. The key areas of focus include emergency resuscitation, endocrinology, environmental injuries, gastroenterology, genitourinary, gynecology, infectious disease, neurology, obstetrics, orthopedics, trauma management, pediatrics, wound management, and social issues. This will form the basis of knowledge for clinical rotations.

MEM 6330 Introduction to Emergency Medicine (3)

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.

MEM 6331 Clinical Emergency Medicine 1 (3)

Pre-requisite(s): MEM 6330

This clinical course introduces emergency medicine physician assistants (EMPA) to the concepts of emergency stabilization, treatment, and resuscitation of common conditions and concerns seen in the emergency department. The key areas of focus include obtaining patient histories, performing physical examinations, developing differential diagnoses, procedural competency, and management of emergency department patients. This course facilitates the translation of medical knowledge into clinical application.

MEM 6332 Clinical Emergency Medicine 2 (3)

Pre-requisite(s): MEM 6330

This clinical course introduces emergency medicine physician assistants (EMPA) to the concepts of emergency stabilization, treatment, and resuscitation of common conditions and concerns seen in the emergency department. The key areas of focus include obtaining patient histories, performing physical examinations, developing differential diagnoses, procedural competency, and management of emergency department patients. This course facilitates the translation of medical knowledge into clinical application.

MEM 6333 Clinical Emergency Medicine 3 (3)

Pre-requisite(s): MEM 6330

This clinical course introduces emergency medicine physician assistants (EMPA) to the concepts of emergency stabilization, treatment, and resuscitation of common conditions and concerns seen in the emergency department. The key areas of focus include obtaining patient histories, performing physical examinations, developing differential diagnoses, procedural competency, and management of emergency department patients. This course facilitates the translation of medical knowledge into clinical application.

MEM 6334 Clinical Emergency Medicine 4 (3)

Pre-requisite(s): MEM 6330

This clinical course introduces emergency medicine physician assistants (EMPA) to the concepts of emergency stabilization, treatment, and resuscitation of common conditions and concerns seen in the emergency department. The key areas of focus include obtaining patient histories, performing physical examinations, developing differential diagnoses, procedural competency, and management of emergency department patients. This course facilitates the translation of medical knowledge into clinical application.

MEM 6335 Clinical Emergency Medicine 5 (3)

Pre-requisite(s): MEM 6330

This clinical course introduces emergency medicine physician assistants (EMPA) to the concepts of emergency stabilization, treatment, and resuscitation of common conditions and concerns seen in the emergency department. The key areas of focus include obtaining patient histories, performing physical examinations, developing differential diagnoses, procedural competency, and management of emergency department patients. This course facilitates the translation of medical knowledge into clinical application.

MEM 6336 Emergency Department 6 (3)

Pre-requisite(s): MEM 6330

This clinical course introduces emergency medicine physician assistants (EMPA) to the concepts of emergency stabilization, treatment, and resuscitation of common conditions and concerns seen in the emergency department. The key areas of focus include obtaining patient histories, performing physical examinations, developing differential diagnoses, procedural competency, and management of emergency department patients. This course facilitates the translation of medical knowledge into clinical application.

MEM 6337 Emergency Care Elective 1 (3)

Pre-requisite(s): MEM 6330

This clinical course introduces emergency medicine physician assistants (EMPA) to the concepts of stabilization, treatment, and resuscitation of common conditions and concerns seen in critically ill and / or injured patients. The key areas of focus include obtaining patient histories, performing physical examinations, developing differential diagnoses, procedural competency, and management of critically ill and/or injured patients. This course facilitates the translation of medical knowledge into clinical application.

MEM 6338 Emergency Care Elective 2 (3)

Pre-requisite(s): MEM 6330

This clinical course introduces emergency medicine physician assistants (EMPA) to the concepts of stabilization, treatment, and resuscitation of common conditions and concerns seen in critically ill and / or injured patients. The key areas of focus include obtaining patient histories, performing physical examinations, developing differential diagnoses, procedural competency, and management of critically ill and/or injured patients. This course facilitates the translation of medical knowledge into clinical application.

MEM 6346 Clinical Research (3)

Pre-requisite(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.

MEM 6410 Concepts of Emergency Medicine 1 (4)

Pre-requisite(s): MEM 6330

This didactic course provides foundational knowledge and skills for the physician assistant to practice in the specialty of emergency medicine. It will introduce emergency medicine physician assistants (EMPA) to the concepts of emergency stabilization, treatment, and resuscitation of common conditions and concerns seen in the emergency department. The key areas of focus include anesthesia, diagnostic imaging, endocrinology, gastroenterology, genitourinary, gerontology, gynecology, hematology, neurology, obstetrics, oncology, ophthalmology, orthopedics, otolaryngology, toxicology, pain management, pediatrics, psychiatry, and social issues. This will form the basis of knowledge for clinical rotations.

MEM 6411 Concepts of Emergency Medicine 2 (4)

Pre-requisite(s): MEM 6410

This didactic course provides foundational knowledge and skills for the physician assistant to practice in the specialty of emergency medicine. It will introduce emergency medicine physician assistants (EMPA) to the concepts of emergency stabilization, treatment, and resuscitation of common conditions and concerns seen in the emergency department. The key areas of focus include cardiology, diagnostic imaging, emergency resuscitation, endocrinology, environmental injuries, hematology, infectious disease, neurology, oncology, orthopedics, oral maxillofacial conditions, trauma management, toxicology, psychiatry, pulmonology, wound management, and social issues. This will form the basis of knowledge for clinical rotations.

MEM 6439 Pediatrics Emergency Department (4)

Pre-requisite(s): MEM 6330

A rotation emphasizing the clinical side of pediatric patients in the emergency department.

MEM 6440 Pediatrics Emergency Department and Pediatric Intensive Care Unit (4)

Pre-requisite(s): MEM 6330

A rotation emphasizing the clinical side of pediatric patients in the Emergency Department and Pediatric ICU.

MEM 6445 Emergency Ultrasound (4)

The MEM6445 rotation orients the emergency medicine physician assistant (EMPA) to the concepts and application of ultrasound in emergency medicine. This is a comprehensive rotation composed of a four-week rotation of ultrasound (US) in the Emergency Department.

MEM 6447 Surgical Intensive Care Unit (SICU) (4)

Pre-requisite(s): MEM 6330

This clinical course introduces emergency medicine physician assistants (EMPA) to the concepts of stabilization, treatment, and resuscitation of common conditions and concerns seen in the critical care department. The key areas of focus include obtaining patient histories, performing physical examinations, developing differential diagnoses, procedural competency, and management of critically ill and/or injured patients. This course facilitates the translation of medical knowledge into clinical application.

MEM 6448 Medical Intensive Care Unit (MICU) (4)

Pre-requisite(s): MEM 6330

A rotation emphasizing life threatening diseases encountered in the emergency department and managed in the MICU.

MEM 6449 Cardiac Care Unit (CCU) (4)

Pre-requisite(s): MEM 6330

A rotation emphasizing the concepts of cardiovascular diseases encountered in the emergency department and managed in the CCU.

MEM 6450 Clinical Critical Care 4 (4)

Pre-requisite(s): MEM 6330

This clinical course introduces emergency medicine physician assistants (EMPA) to the concepts of stabilization, treatment, and resuscitation of common conditions and concerns seen in the critical care department. The key areas of focus include obtaining patient histories, performing physical examinations, developing differential diagnoses, procedural competency, and management of critically ill and/or injured patients. This course facilitates the translation of medical knowledge into clinical application.

Military General Surgery (MCG)**MGS 6210 Surgical Basic Principles (2)**

Historical surgical perspective on basic cellular, physiological principles of surgery.

MGS 6211 Perioperative Management (2)

Basis of surgery is evaluation of the risk factors of a potential surgical patient. Perioperative management focus on the risk, benefits, and infections of surgery and the complications of anesthesia.

MGS 6212 The Abdomen (2)

The anatomy and physiological process that occur within the abdomen (abdominal wall, umbilicus, peritoneum, mesenteries, omentum, retroperitoneum, hernia, acute abdomen, and acute gastrointestinal hemorrhage).

MGS 6213 Surgery of the Esophagus and Stomach (2)

Anatomy, physiology, disease process, and surgical treatments of the stomach and esophagus, along with hiatal hernia and gastroesophageal reflux disease.

MGS 6214 Surgery of the Small Intestine, Large Intestine, Rectum, and Anus (2)

Surgical anatomy, pathophysiology, disease process, and treatment of the small intestine, large intestine, rectum, and anus.

MGS 6215 Surgery of the Liver and Biliary Tract (2)

Anatomy, pathophysiology, disease process, and treatments of liver and biliary tract.

MGS 6216 Surgery of the Pancreas and Spleen (2)

Anatomy, pathophysiology, disease process, and treatments of the pancreas and spleen.

MGS 6217 Endocrine Surgery (2)

Anatomy, pathophysiology, disease process, and treatment of thyroid, parathyroid, adrenal glands, and endocrine of the pancreas.

MGS 6218 Breast Surgery (2)

Anatomy, pathophysiology, disease process, and treatment of the breast.

MGS 6219 Neurosurgery, Pediatric Surgery (2)

Anatomy, pathophysiology, disease process, and treatments in neurosurgery and pediatric surgery.

MGS 6220 Burn/Critical Care Surgery (2)

Anatomy, pathophysiology, disease process, and treatments associated with burn surgery.

MGS 6221 Trauma Surgery (2)

Anatomy, pathophysiology, disease process, and treatment related to trauma surgery.

MGS 6222 Surgical Critical Care (2)

Anatomy, pathophysiology, disease process, and treatments related to surgical critical care.

MGS 6223 Surgery on the Lung, Chest Wall, and Mediastinum (2)

Anatomy, pathophysiology, disease process, and treatments related to the lung, chest wall, and mediastinum.

MGS 6224 Surgical Oncology (2)

Anatomy, pathophysiology, disease process, and treatment of surgical oncology.

MGS 6225 Vascular Surgery (2)

Anatomy, pathophysiology, disease process, and treatment in vascular surgery.

MGS 6322 Evidence-based Trauma Surgery and Critical Care (3)

This course introduces the application of evidence-based medicine to the management of trauma and critical. This course focuses on assessing current peer-reviewed journal articles for sound research design and valid conclusions. This course focuses on applying lessons learned from the literature to individual patients and patient populations.

MGS 6330 Orientation to General Surgery (3)

This rotation emphasizes the clinical skills of providing care and treatment to patients with surgical disease.

MGS 6331 General Surgery Team A (Colorectal, General Surgery, Pediatric) (3)

Rotation is a block emphasizing colorectal and pediatric surgery cases presenting to the General Surgery Department.

MGS 6332 General Surgery Team B (Minimally Invasive Surgery) (3)

This is a clinical block of instruction emphasizing minimally invasive surgery for general surgery and bariatric cases.

MGS 6333 General Surgery Team C (General Surgery) (3)

This rotation is a block emphasizing minimally invasive and bariatric cases presenting to the General Surgery Department.

MGS 6334 General Surgery (WH) (3)

This rotation is a block emphasizing general surgery cases presenting to the General Surgery Department.

MGS 6335 General Surgery Team D (Surgical Oncology) (3)

This rotation is a block emphasizing surgical oncology cases presenting to the General Surgery Department.

MGS 6336 Interventional Radiology (3)

This rotation is a block emphasizing interventional radiology cases presenting to the Interventional Radiology Department.

MGS 6337 Trauma Surgery (Rotation 1) (3)

This rotation is a block emphasizing trauma surgery cases presenting to the Trauma Surgery Department.

MGS 6338 Vascular Surgery (3)

This rotation is a block emphasizing vascular surgery cases presenting to the Vascular Surgery Department.

MGS 6339 Burn Surgery/Burn Critical Care (Rotation 2) (3)

This rotation is a block emphasizing burn surgery/burn critical care cases presenting to the Burn Surgery Department.

MGS 6340 Plastic Surgery (3)

This rotation is a block emphasizing plastic surgery cases presenting to the Plastic Surgery Department.

MGS 6341 Neurosurgery (3)

This rotation is a block emphasizing neurosurgical cases presenting to Neurosurgery Department.

MGS 6342 Trauma Surgery (Rotation 2) (3)

This rotation is a block emphasizing trauma surgery cases presenting to the Trauma Surgery Department.

MGS 6343 Trauma/Surgical Intensive Care Unit (Rotation 1) (3)

This rotation is a block emphasizing trauma/surgery intensive care unit (STICU) cases presenting to the Trauma Surgery Department.

MGS 6344 Trauma/Surgical Intensive Care Unit (STICU) (Rotation 2) (3)

This rotation is a clinical block emphasizing trauma/surgical intensive care unit (STICU) cases that present to the Trauma Surgery Department.

MGS 6345 Burn Surgery/Burn Critical Care (Rotation 1) (3)

This rotation is a clinical block emphasizing burn surgery/burn critical care cases presenting to the Burn Surgery Department.

MGS 6346 Elective Concentration (3)

This rotation is a block emphasizing an elective concentration rotation for the resident.

MGS 6347 Clinical Research (3)

In this course, students develop the knowledge to plan, organize, conduct, and submit for publication an approved Investigative Review Board (IRB) research project.

MGS 6348 Neurosurgery (Rotation 2) (3)

Clinical Rotation in Neurosurgery evaluating Neurosurgery trauma, performing Neurosurgery procedures, interventions, and treatment.

MGS 6349 Orthopaedic Trauma (Rotation 1) (3)

Clinical Rotation evaluating orthopaedic trauma and performing orthopaedic trauma procedures, interventions, and treatments.

MGS 6350 Orthopaedic Trauma (Rotation 2) (3)

Clinical rotation evaluating orthopaedic trauma and performing orthopaedic trauma procedures, interventions, and treatments.

MGS 6354 Psychomotor and Surgical Skills Laboratory (3)

This course introduces advanced principles of medical evaluation, diagnosis, and treatment necessary for regular clinical application. This course applies evidence-based medicine to the management of trauma surgery and critical care patients. This course advances independence in stabilization of critically ill, postoperative and trauma patients and refine the differential diagnoses and appropriate diagnostic work-up for a wide spectrum of perioperative complications.

MGS 6355 Advanced Clinical Evaluation and Management in Trauma (3)

This course introduces advanced principles of medical evaluation, diagnosis, and treatment necessary for regular clinical application. This course applies evidence-based medicine to the management of trauma surgery and critical care patients. This culminating course synthesizes all previous instruction in preparation for military utilization tours.

MGS 6356 Techniques for Medical Research Presentation (3)

This course introduces various techniques for medical research presentation. This course takes information obtained in developing a high-quality clinical research project, demographic and outcome measure data and statistical analysis and generates oral and written products for presentation at local and national venues.

MGS 6423 Medical Research Design (4)

This course introduces medical research design. This course focuses on generation of a testable research question, developing a research design that addresses the question and conducting a literature review that supports the study design.

MGS 6424 Approaches to Medical Data Collection and Analysis (4)

This course introduces approaches to medical data collection and analysis. This course focuses on executing a research protocol, collecting outcome measures data and then participating in the analysis of the data.

MGS 6431 Fundamentals of Ambulatory Surgery (4)

This course affords the learner the opportunity to experience one of the largest community hospitals, with less complex surgical cases not requiring referral to a tertiary facility. The learner will assist the lead surgical resident of the trauma team in an environment with faculty oversight. The learner provides the initial evaluation and management decisions on inpatient surgery consultations and Emergency Department consultations. The learner works with general surgery staff in the operating room and sees a clinic one half-day per week.

MGS 6432 Intermediate Ambulatory Surgery (4)

This course builds upon the Fundamentals of ambulatory surgery course. This course affords the learner the opportunity to experience one of the largest community hospitals, with less complex surgical cases not requiring referral to a tertiary facility. The learner will assist the lead surgical resident of the trauma team in an environment with faculty oversight. The learner provides the initial evaluation and management decisions on inpatient surgery consultations and Emergency Department consultations. The learner works with general surgery staff in the operating room and sees a clinic one half-day per week.

MGS 6433 Fundamentals of Acute Care Surgery (4)

This course introduces subspecialty, multidisciplinary team care of surgical patients. The learner has primary responsibility for patient care on the wards - from the history and physical examination to perioperative needs, both medical and surgical. This allows for a considerable degree of continuity of patient care. During the acute care surgery course, learners are required to attend all of the team and didactic sessions provided by the General Surgery Program.

MGS 6434 Intermediate Acute Care Surgery (4)

This course advances concepts introduced during the Fundamentals of acute care surgery course. This course is divided amongst the various general surgery subspecialty teams. This experience affords the closest observation of learner by both senior resident and core General Surgery faculty in the clinical setting. The learner is responsible for being the first call for consultation evaluation of Emergency Department and in-patient consults.

MGS 6435 Advanced Acute Care Surgery (4)

This course advances concepts introduced during the Intermediate acute care surgery course. During this course, the learner participates in the Emergency general surgery (EGS) team. The learner has primary responsibility for patient care on the wards - from the history and physical examination to perioperative needs, both medical and surgical. This allows for a considerable degree of continuity of patient care. During the Emergency general surgery course, learners are required to attend all didactic sessions provided by the General Surgery Program.

MGS 6436 Fundamentals of Interventional Radiology for Surgical Specialties (4)

This course focuses on the clinical care and treatment of interventional radiology (IR) patients including pre-procedure care, performance of the procedure and post-operative care. The learner has primary responsibility for all pre-procedural evaluation, is the primary operator for performance of procedures and is responsible for all patient follow-up for the division of vascular and interventional radiology. The learner attends daily teaching rounds, discussing the daily cases with the attending vascular interventional radiologist, weekly one-hour lectures given by the attending interventional radiologists and regular multidisciplinary conferences.

MGS 6439 Fundamentals of Burn Surgery and Burn Critical Care (4)

This course provides in-depth exposure to the evaluation and management of complex burn injuries. The learner is an integral part of the burn team and is partnered with more senior residents and fellows. All care provided in the burn center is supervised by attending burn and critical care surgeons. The learner assists with the evaluation and resuscitation of critically injured burn patients. The learner is expected to attend the General Surgery Academic Conferences as the schedule and work hour requirements allow.

MGS 6440 Fundamentals of Plastic and Micro Surgery for Surgical Specialties (4)

This course introduces the fundamentals of plastic and micro-surgery. The learner will apply the core concepts and medical knowledge attained during didactic instruction on alimentary tract, breast, abdominal, and reconstructive surgery in the trauma and oncologic setting. This course will provide a didactic foundation of knowledge as well as provide a learning environment to the plastic surgery patient to allow the learner to work as an integral member of the multidisciplinary team managing plastic surgery patients and apply the learned knowledge in outpatient and in-hospital settings.

MGS 6441 Fundamentals of Neurosurgery for Surgical Specialties (4)

This course introduces advanced principles of medical evaluation, diagnosis, and treatment necessary for regular clinical application. This course applies evidence-based medicine to the management of trauma surgery and critical care patients. This course introduces techniques for diagnosis and treatment of patients with injury to, diseases of, or disorders of, the brain, spinal cord and spinal column, and peripheral nerves.

MGS 6443 Fundamentals of Trauma Management and the Surgical Intensive Care Unit (4)

This course can encompass either care of the post-surgical patient or care of the critically ill trauma patients. The learner participates in the global care of patients in all of these areas, with particular emphasis on patient care continuity issues. The ICU team is the primary manager of many subspecialty surgical admissions. The ICU team consults on all General Surgery admissions. Learners are supervised by dedicated Critical Care Staff. Specific didactic sessions related to this service include formal staff rounds and lectures on selected topics of ICU management. Learners are expected to attend the General Surgery Academic Program as the schedule and work hour requirements allow.

MGS 6444 Advanced Surgical Intensive Care Unit Management (4)

This course facilitates the learners as a service provider for Surgical and Trauma ICU patients. The ICU team is the primary manager of many subspecialty surgical admissions. The ICU team consults on all admissions. This course provides increasing responsibility in the care of the critically ill patient. Learners are supervised by dedicated Critical Care Staff. Specific didactic sessions related to this service include formal staff rounds and lectures on selected topics of ICU management. Learners are expected to attend the Surgery Academic Program as the schedule and work hour requirements allow.

MGS 6445 Advanced Burn Surgery and Burn Critical Care (4)

This course provides in-depth exposure to the evaluation and management of complex burn injuries. The learner is an integral part of the burn team and is partnered with residents and fellows. All care provided in the burn center is supervised by attending burn and critical care surgeons. The learner assists with the evaluation and resuscitation of critically injured burn patients. The learner is expected to attend the General Surgery Academic Conferences on Monday morning as the schedule and work hour requirements allow.

MGS 6446 Fundamentals of the Initial Evaluation and Management in Trauma Surgery (4)

This course introduces the initial evaluation and management of trauma surgery patients. During the course, the learner has primary responsibility for patient care on the wards - from the history and physical examination to perioperative needs, both medical and surgical. This allows for a considerable degree of continuity of patient care. During the trauma surgery rotation, learners are required to attend all the didactic sessions provided by the General Surgery Program.

MGS 6447 Fundamentals of Operative Management in Trauma Surgery (4)

This course introduces operative management in trauma surgery patients. During this course, the learner supports the senior resident managing a team consisting of 2 or more interns, mid-level providers, and rotating medical students. There is appropriate attending backup coverage for any questions or concerns that the learner may have when dealing with patient issues. The staff surgeon remains in-house with the team and responds to any major trauma alert and is present in the trauma bay within 15 minutes of patient arrival as per the hospital guidelines. There is a significant amount of intensive care management during this course. Attending supervision is provided by one of the core trauma/critical care attending faculty on all Trauma Service patients.

MGS 6448 Advanced Trauma Surgery (4)

This course builds on other courses on trauma surgery. During this course, the learner is a member of the Emergency general surgery (EGS) Team, responsible for all the acute care surgical consultations from the Emergency Department and inpatient consultations. Acute care consults are those defined as usually requiring surgery within 24 hours (acute appendicitis, acute cholecystitis, acute abdomen, pneumoperitoneum etc.). This is a comprehensive service dealing with all aspects of acute care surgical patients. This results in a concentrated EGS service with unique educational opportunities regarding acute care surgical management and education.

MGS 6451 Introduction to Surgical Management Scenarios Unique to the US Army (4)

This course will have the learner working with the overnight surgical team, responsible for all floor calls on surgical patients and responding as part of the trauma team for traumas. This understanding will be important in subsequent years on the trauma and EGS service. The learner will also participate in the nighttime curriculum.

MGS 6452 Introduction to Surgical Management Scenarios Unique to the US Air Force (4)

This course will have the learner working with the overnight surgical team, responsible for all floor calls on surgical patients and responding as part of the trauma team for traumas. This understanding will be important in subsequent years on the trauma and EGS service. The learner will also participate in the nighttime curriculum.

MGS 6453 Introduction to Surgical Management Scenarios Unique to the US Navy (4)

This course will have the learner working with the overnight surgical team, responsible for all floor calls on surgical patients and responding as part of the trauma team for traumas. This understanding will be important in subsequent years on the trauma and EGS service. The learner will also participate in the nighttime curriculum.