

SCIENCE RESEARCH FELLOWS

The Science Research Fellows major in the College of Arts & Sciences aims to develop a research-rich curriculum that prepares students in multiple aspects of scientific inquiry and place them in research labs by the fall of their sophomore year, where the student will continue to conduct research until they finish their degree. Because of the heavy emphasis on research, Science Research Fellows are exempt from most core curriculum requirements. Recognizing the importance of a broad undergraduate education, Science Research Fellows are strongly encouraged to take a rich variety of liberal arts courses.

Admission to the Program

Students will be able to apply to the Science Research Fellows once they have committed to Baylor University by:

1. Submitting an application online.
2. Answer 4 essay questions on why the Science Research Fellows major is a good fit.
3. Provide two letters of recommendation from high school teachers (at least one from a science teacher) to be sent to the Science Fellows Program Director.

Maintaining Science Research Fellows Status

To remain in and graduate from the program, Science Research Fellows must demonstrate satisfactory progress defined as maintaining an overall GPA of 3.5, performing satisfactorily in their research, comporting themselves with the utmost honesty and integrity, and earning a grade of B or better in all SRF courses and all science courses from ANT, BIO, CHE, ENV, GEO, PHY, and PSY. If released from the program, students must then fulfill the general requirements of the university in addition to the requirements for a major.

Degree Requirements

The requirement for minimum hours for the degree, advanced credit, and residence are the same as for the Bachelor of Science degree.

Code	Title	Hours
Basic Requirements		
<i>Chapel</i>		
Two semesters of Chapel		
<i>Common Courses</i>		
REL 1310	The Christian Scriptures	3
REL 1350	The Christian Heritage	3
PSC 1387	The U.S. Constitution, Its Interpretation, and the American Political Experience	3
<i>English</i>		
PWR 3300	Technical Writing	3
<i>Formal Reasoning</i>		
MTH 1321	Calculus I	3
MTH 1322	Calculus II ¹	3
	or STA 2381	Introductory Statistical Methods
Subtotal		18
Science Research Fellows Requirements		
SRF 1306	Research Techniques I	3
SRF 1307	Research Techniques II	3
SRF 4101	Senior Research Seminar I	1
SRF 4102	Senior Research Seminar II	1

Complete eight additional hours of SRF courses	8
Twenty-one semester hours of 3000-4000 level science courses from the following prefixes: ANT, BIO, CHE, ENV, GEO, NSC, PHY, or PSY ^{2, 3, 4}	21

Total Hours **55**

¹ or an additional mathematics or statistics course that has MTH 1321 Calculus I as a prerequisite

² Students must pass these courses with a grade of "B" or better.

³ The following ANT courses count toward this requirement: ANT 3331/FORS 3331, ANT 4314, ANT 4330, ANT 4333, ANT 4335, ANT 4340, ANT 4348, ANT 4355/FORS 4355, ANT 4358, ANT 4365, ANT 4371, ANT 4372, ANT 4380, ANT 4690, ANT 4V16, ANT 4V17, and ANT 4V70.

⁴ The following courses **cannot** count toward this requirement CHE 3341, CHE 4327, ENV 3300, ENV 3303, ENV 3320, ENV 4306, ENV 4307, ENV 4310, ENV 4323, ENV 4327, ENV 4330, ENV 4331, ENV 4350, ENV 4351, ENV 4362, ENV 4369, ENV 4389, ENV 4393, ENV 4394, ENV 4410, GEO 4314, GEO 4487, PHY 3305, PSY 3321, and PSY 3341.

For Science Research Fellows in the Baylor Interdisciplinary Core, BIC courses will substitute for the following required courses: PWR 3300 Technical Writing and PSC 1387 The U.S. Constitution, Its Interpretation, and the American Political Experience. BIC 3358 Examined Life II: Biblical Heritage and Contemporary Ethical Issues will substitute for REL 1310 The Christian Scriptures and REL 1350 The Christian Heritage. All other Science Research Fellows and BIC requirements must be fulfilled. For BIC, this includes completion of designated course requirements on the B.S. degree for the language and culture requirement, formal reasoning requirement, and four Creative Arts Experiences, in addition to the rest of the BIC curriculum.

Science Research Fellows (SRF)

SRF 1306 Research Techniques I (3)

Pre-requisite(s): Science Research Fellows major

The scientific process and common techniques and instrumentation used in biology, neuroscience and psychology research labs, including scientific literacy, data analysis and interpretation, and the breadth of scientific exploration.

SRF 1307 Research Techniques II (3)

Pre-requisite(s): Science Research Fellows major

Techniques and instrumentation for chemistry and biochemistry research labs; toxicology as it applies to all science disciplines.

SRF 3V90 Research Problems in Science (1-4)

Pre-requisite(s): SRF 1307 and Science Research Fellows major

Research project conducted under the supervision of a science research faculty member. Techniques and overall goals of the research group, including the details of a particular research project. This course may be repeated for a maximum of 8 total hours if research continues.

SRF 4101 Senior Research Seminar I (1)

Pre-requisite(s): Upper-level standing and Science Research Fellows major

Lab work and data analysis in preparation for presentation and possible publication, supervised by a faculty member.

SRF 4102 Senior Research Seminar II (1)

Pre-requisite(s): Upper-level standing and Science Research Fellows major

Presentation of research in a formal oral presentation to faculty and SRF peers, supervised by a faculty member.

SRF 4V90 Senior Research Problems in Science (1-4)

Pre-requisite(s): SRF 3V90 and Science Research Fellows major

Independent research project as determined by the faculty research advisor. Students will collect enough scientific data for publication. This course may be repeated for a maximum of 12 total hours if research continues.