



Southwest Baptist UNIVERSITY

BACHELOR OF SCIENCE IN PHYSICS (3-2 PRE-ENGINEERING)

FRESHMAN - FALL SEMESTER

CHE 1113 & 1111	Inquiry: General Chemistry I & Lab	4
ENG 1113	Communication: English Composition I	3
MAT 1195	Reasoning: Calculus I	5
UNI 1111	Opportunities: University Seminar	1
DISCOVER	Communication: (Communication Options)	3
Total Credits		16

FRESHMAN - SPRING SEMESTER

UNI 1121	Reasoning: Introduction to Critical Thinking	1
PHY 2214 & 2211	University Physics I & Lab	5
CHE 1123 & 1121	General Chemistry II & Lab	4
MAT 2255	Calculus II	5
Total Credits		15

SOPHOMORE - FALL SEMESTER

BIB 1013	Values: Old Testament History	3
MAT 2263 or CHE 3323	Calculus III or Physical Chemistry	3
MAT 3323 or CHOICE	Linear Algebra or Science Choice	3
PHY 2224 & 2221	University Physics II & Lab	5
PHY 3263 or PHY 3233 & 3231	Mathematics for Science and Engineering or Statics & Lab	3
Total Credits		17

SOPHOMORE - SPRING SEMESTER

BIB 1023	Values: New Testament History	3
DISCOVER	Society: (American Studies Options)	3
DISCOVER	Values: (Spiritual Formation Options)	2
DISCOVER	Values: (Cultural Awareness Options)	2
MAT 3363 or CIS 1144	Differential Equations or Computer Science I	3
PHY 2314 or PHY 4233	Introduction to Engineering or Dynamics	4
Total Credits		17

JUNIOR - FALL SEMESTER

DISCOVER	Discipline: (Discipline Options)	3
MAT 2263 CHE 3323	Calculus III or Physical Chemistry	3
MAT 3323 or CHOICE	Linear Algebra or Science Choice	3
PHY 3263 or PHY 3233 & 3231	Mathematics for Science and Engineering or Statics & Lab	4
SCF 3402	Science through the Eyes of Faith	2
Total Credits		15

JUNIOR - SPRING SEMESTER

DISCOVER	Enrichment: (Enrichment Options)	3
DISCOVER	Communication: (Composition Options)	3
DISCOVER	Society: (Social Studies Options)	3
MAT 3363 or CIS 1144	Differential Equations or Computer Science I	4
PHY 2314 or PHY 4233	Introduction to Engineering or Dynamics	3
Total Credits		16

DISCOVER Core Curriculum

Student Selection: Open Choice, Second Major Courses, or Minor Courses

Total Credits to Graduate: 96

Updated Spring 2025

NOTE: Students must complete two years at Missouri University of Science and Technology (or similar engineering program) for this degree to be awarded.