BS – Physics
(SC-BSPHYS)

2019 Catalog year: College of Science and Engineering

Freshman
Fall semester
CHEM 1355
Engineering Chemistry
(F,S)
and
CHEM 1141
General Chem I Lab
(F,S,Su)
BIO 1330/1331 or BIO 1330/1331 may be taken instead

Freshman
Spring semester
MATH 2471
Calculus I
(F,S,Su)

Sophomore
Fall semester
MATH 2472
Calculus II
(F,S,Su)

Sophomore
Spring semester
MATH 3373
Calculus III
(F,S,Su)

Math 3323
Differential Equations
(F,S,Su)

Junior
Fall semester
PHYS 2230
Intro Comp Mod Phys
(F,S)

PHYS 2150
Prof Dev Phys
(F,S)

PHYS 2425
Electricity & Magnetism
(F,S)

PHYS 3312
Modern Physics
(F,S)

PHYS 3311
Mechanics I

PHYS 3320
Intro Math Phys
(F,S)

PHYS 4305
Stat Phys
(S)

PHYS 4310
Elec Fld Theory I
(F)

PHYS 4312
Quantum Mech I
(Recommended 6 hours additional advanced physics)

PHYS 3411
Advanced Physics Lab

PHYS 3418
Methods in Observational Astrophysics

PHYS 3419
Advanced Theory I

PHYS 3420
Selected Studies in Physics

PHYS 3431
Condensed Matter Physics

PHYS 3437
Advanced Cognition

PHYS 3438
Undergraduate Research

PHYS 3443
Relativity

PHYS 4121
Undergraduate Research

PHYS 4122
Advanced Research

Minor and/or elective courses

10 hours of PHYS electives:
PHYS 3210 (F,S) – Physics Cognition & Pedagogy I
PHYS 3313 (F) – Astrophysics
PHYS 3411 (S) – Advanced Physics Lab
PHYS 3416 (F) – Applied Electronics
PHYS 3417 (F) – Optics

PHYS 3418 – Methods in Observational Astrophysics
PHYS 3419 – Advanced Theory I
PHYS 3420 – Selected Studies in Physics
PHYS 4121/4122 – Undergraduate Research
PHYS 4350 – Relativity

PHYS 4350 – Biophysics
PHYS 4360 (S) – Physics Cognition & Pedagogy II

See most recent online catalog for prerequisites.

Choose 2 Upper Division Lab Courses:
PHYS 3411 (S) – Advanced Physics Lab
PHYS 3416 (F) – Applied Electronics
PHYS 3417 (F) – Optics
PHYS 3418 – Methods in Observational Astrophysics

Core courses must be completed:
__US 1100__
__PHIL 1305 or 1320__
__ART/DAN/MU/TH 2313__
__ENG 1310__
__ENG 1320__
__COMM 1310 or ENG 2310__
__HIST 1310__
__HIST 1320__
__2360__
__POSTI 2310__
__POSTI 2320__
__ANTH 1312/ECO 2301/ECO 2314/GEA 1310/PSY 1300/SOC 1310__

US 1100 & ENG 1310 recommended for first semester. HIST 1310/1320 not recommended for first semester.

This is not an official degree audit and it is subject to change. This chart is intended to be used by students who start out at Texas State. Please contact the College of Science and Engineering Undergraduate Advising Center for advising.

Note: In addition to major courses, students must also complete all core and minor requirements (if applicable) and any other requirements for graduation.

Key:
Arrows indicate prerequisites.
Arrows with dotted lines indicate co-requisites.
Arrows with dash lines are recommended prerequisites.
Courses taught in specific semesters are indicated with the following codes:
F-Fall
S-Spring
Su-Summer Session I or II
WI courses: PHYS 3210, 3411, 3416, 3417, 3418, 4317