Bachelor of Science in Physics, Option I: Physics
2018 - 2020 Catalog

Core Curriculum Requirements* (27 hrs)

- UGS 302 or 303 First-Year Signature Course
- RHE 306 Rhetoric & Composition
- E 316P/N/M/L/K Literature
- American History 1
- American History 2
- American Government
- Government 2
- Social & Behavioral Science
- Visual & Performing Arts
- Mathematics (fulfilled by M 408N/C)
- Science Sequence, 6 hrs (fulfilled by major requirement)
- Science, 3 additional hours (fulfilled by major requirement)
- Writing flag (from course not fulfilling core curriculum)

*Courses that fulfill above core curriculum requirements are designated in course schedule.

Foreign Language or Culture Requirement (minimum 6 hrs)

- 3-6 hrs foreign language or approved culture course

Course Flag Requirements

- Upper division writing flag (WR)
- Additional writing flag (WR) *1 WR flag must not overlap with core
- Independent Inquiry flag (II)
- Quantitative Reasoning flag (QR) (fulfilled by M 408N/C)
- Cultural Diversity flag (CD)
- Global Cultures flag (GC)
- Ethics & Leadership flag (EL)

Physics Requirements (40 hrs)

- PHY 301 & 101L Mechanics and lab
- PHY 316 & 116L Electricity & Magnetism and lab
- PHY 315 & 115L Wave, Motion, & Optics and Lab
- PHY 336K Classical Dynamics
- PHY 352K Classical Electrodynamics I
- PHY 353L Modern Physics Laboratory
- PHY 355 Modern Physics
- PHY 362K Quantum Physics II
- PHY 362L Quantum Physics III
- PHY 369 Thermodynamics & Statistical Mechanics
- PHY 373 Quantum Physics I
- PHY 474 Advanced Laboratory I

Additional Major Requirements (34 hrs)

- CH 301 Principles of Chemistry I
- CH 302 Principles of Chemistry II
- 6 hrs majors-level coursework chosen from BIO, GEO, or AST
- M 408C Differential & Integral Calculus
- M 408D Sequences, Series, & Multivariable Calculus
- M 427J Differential Equations with Linear Algebra
- M 427L Advanced Calculus for Applications II
- 6 additional hrs of upper-division mathematics
  (recommended: M 340L, 361, and 362K)

General Electives* (19 hrs+)

- 126 hours total *Physical activity courses (PED or KIN) and non-majors
  science courses will not count toward the required 120 hours. Only 6 hours of pass/fail
  coursework will count toward the required 120 hours.
  +May need fewer elective hours depending on courses selected for the foreign
  language/foreign culture requirement

AP Exam | Credit
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Language, score of 3-5 | RHE 306
Literature, 4-5 | E 316P
US History, 3-5 | HIS 315L (American History 2)
American Government, 3-5 | GOV 310L (American Government)
Psychology, Human Geography or Macro/Microeconomics, 3-5 | Social & Behavioral Science
Music Theory or Art History, 3-5 | Visual and Performing Arts
Computer Science A, 4-5 | CS 312
Chemistry, 4-5 | Chemistry 301 & 302
Biology, 5 | Biology 311C & 311D
Physics C: Mechanics, 3-5 | Physics 303K & 103M or 301 & 101L
Physics C: E & M, 3-5 | Physics 303L & 103N or 316 & 116L
Calculus, AB or BC | Varies

Mathematics, Physics, & Astronomy Advising
RLM 4.101
mpaad@utexas.edu

For planning purposes only; please consult your academic advisor for degree requirements and progress