

BS in Physics and Astronomy (694832) MAP Sheet

Computational, Mathematical, and Physical Sciences, Physics and Astronomy

For students entering the degree program during the 2025-2026 curricular year.



FRESHMAN YEAR

1st Semester

First-year Writing 3.0
Religion Cornerstone course 2.0
PHSCS 121 3.0
PHSCS 191 0.5
MATH 112 4.0
UNIV 101 2.0
Total Hours 14.5

2nd Semester

A HTG 100 3.0
Religion Cornerstone course 2.0
PHSCS 123 3.0
MATH 113 4.0
PHSCS 127 3.0
Total Hours 15.0

SOPHMORE YEAR

3rd Semester

PHSCS 220 3.0
PHSCS 227 3.0
PHSCS 230 1.0
PHSCS 291 0.5
CS 111 3.0
Religion Cornerstone course 2.0
General Electives 2.0
Total Hours 14.5

4th Semester

PHSCS 222 3.0
PHSCS 228 3.0
MATH 302 4.0
GE Arts, Letters, Sciences 3.0
Religion Cornerstone course 2.0
Total Hours 15.0

JUNIOR YEAR

5th Semester

MATH 303 4.0
PHSCS 321 3.0
PHSCS 330 1.0
GE Arts, Letters, Sciences 3.0
GE Arts, Letters, Sciences 3.0
GE Religion 2.0
Total Hours 16.0

6th Semester

PHSCS 329 3.0
Physics Requirement 2 3.0
Open Elective 1.0
GE Arts, Letters, Sciences 3.0
PHSCS 318 3.0

GE Religion 2.0
Total Hours 15.0

SENIOR YEAR

7th Semester

PHSCS 427 3.0
PHSCS 441 3.0
PHSCS 451 3.0
GE Arts, Letters, Sciences 3.0
GE Religion 2.0
Open Elective 1.0
Total Hours 15.0

8th Semester

PHSCS 416 or WRTG 316 3.0
PHSCS 428 3.0
Open Elective 1.0
Physics Requirement 2 3.0
PHSCS 498R 2.0
Global and Cultural Awareness 3.0
Total Hours 15.0

See University Core requirements here:

<https://catalog.byu.edu/generaleducation>

THE DISCIPLINE

Over the centuries physicists and astronomers have studied the fundamental principles that govern the structure and dynamics of matter and energy in the physical world, from subatomic particles to the cosmos. Physicists also apply this understanding to the development of new technologies. For example, physicists invented the first lasers and semiconductor electronic devices.

Physics and astronomy students learn to approach complex problems in science and technology from a broad background in mechanics, electricity and magnetism, statistical and thermal physics, quantum mechanics, relativity, and optics. The tools they develop at BYU include problem solving by mathematical and computational modeling, as well as experimental discovery and analysis. All students gain professional experience in a research, capstone, or internship project, usually in close association with faculty. Together these experiences can provide excellent preparation for employment or for graduate studies in physics, other sciences, engineering, medicine, law, or business.

Most physicists and astronomers work in research and development in industrial, government, or university labs to solve new problems in technology and science. They

also share the beauty discovered in our physical universe by teaching in high schools, colleges, and universities.

For more information, see

www.physics.byu.edu/undergraduate.

CAREERS OPPORTUNITIES

A degree in physics or physics-astronomy can provide:

1. Preparation for those who intend to enter industrial or governmental service as engineers, technicians, physicists, or astronomers.
 2. Education for those who intend to pursue graduate work in physics or astronomy.
 3. Education in the subject matter of physics for prospective teachers of the physical sciences.
 4. Undergraduate education for those who will pursue graduate work in the professions: business (e.g., an MBA), law (especially patent law), medicine, etc.
 5. Fundamental background for other physical sciences and engineering, in preparation for graduate study in these fields.
 6. Physics fundamentals required by the biological science, medical, dental, nursing, and related programs.
- For more information on careers in your major, see www.physics.byu.edu/undergraduate/careers.

MAP DISCLAIMER

While every reasonable effort is made to ensure accuracy, there are some student populations that could have exceptions to listed requirements. Please refer to the university catalog and your college advisement center/department for complete guidelines.

DEPARTMENT INFORMATION

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ADVISEMENT CENTER INFORMATION

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