

Name:	
Advisor:	
Graduation Year:	

Physics Major

The number of courses required for the major is 17 (53-58 semester hours). At least four of these courses (12 semester hours) must be at the 300-level or above. Internships may not be used to fulfill major requirements.

All of the following (32 sem. hrs.) MATH 111
□ MATH 112 Calculus II: Introduction to Calculus (4 sem. hrs.) □ MATH 211 Calculus III: Multivariable Calculus (3 sem. hrs.) □ MATH 213 Ordinary Differential Equations and Applications (3 sem. hrs.) □ MPS 402 Senior Seminar in Mathematical and Physical Sciences I (2 sem. hrs.) □ MPS 403 Senior Seminar in Mathematical and Physical Sciences II (2 sem. hrs.) □ PHYS 111L Fundamentals of Physics I (4 sem. hrs.) □ PHYS 302 Modern Physics (3 sem. hrs.) □ PHYS 303 Theoretical Mechanics (3 sem. hrs.) Either of the following (3-4 sem. hrs.) □ CHEM 107L General Chemistry (4 sem. hrs.) □ CS 131 Programming I: Procedural Methods (3 sem. hrs.) Three of the following (9-10 sem. hrs.) □ CHEM 301 Physical Chemistry (3 sem. hrs.) □ PHYS 221L Principles of Electronics (4 sem. hrs.) □ PHYS 307 Intermediate Quantum Mechanics (3 sem. hrs.) Two of the following (6-8 sem. hrs.) □ Courses in mathematics, computer science, or physics above the 100-level or □ CHEM 301 Physical Chemistry (3 sem. hrs.)
□ MATH 211 Calculus III: Multivariable Calculus (3 sem. hrs.) □ MATH 213 Ordinary Differential Equations and Applications (3 sem. hrs.) □ MPS 402 Senior Seminar in Mathematical and Physical Sciences I (2 sem. hrs.) □ MPS 403 Senior Seminar in Mathematical and Physical Sciences II (2 sem. hrs.) □ PHYS 111L Fundamentals of Physics I (4 sem. hrs.) □ PHYS 212L Fundamentals of Physics II (4 sem. hrs.) □ PHYS 302 Modern Physics (3 sem. hrs.) □ PHYS 303 Theoretical Mechanics (3 sem. hrs.) □ CHEM 107L General Chemistry (4 sem. hrs.) □ CHEM 107L General Chemistry (4 sem. hrs.) □ CHEM 301 Physical Chemistry (3 sem. hrs.) □ CHEM 301 Physical Chemistry (3 sem. hrs.) □ PHYS 221L Principles of Electronics (4 sem. hrs.) □ PHYS 307 Intermediate Quantum Mechanics (3 sem. hrs.) Two of the following (6-8 sem. hrs.) □ Courses in mathematics, computer science, or physics above the 100-level or □ CHEM 301 Physical Chemistry (3 sem. hrs.)
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☐ CS 132 Programming II: Object Orientation (3 sem. hrs.)
☐ PHYS 221L Principles of Electronics (4 sem. hrs.)
☐ PHYS 307 Intermediate Quantum Mechanics (3 sem. hrs.)
☐ PHYS 340 Experimental Physics (3 sem. hrs.)
One of the following (3-4 sem. hrs.)
Any course in computer science, mathematics or physics above the 100-level.

What can I do with this major?

See below for examples of what you can do with a Physics major after graduation! For more information, see the full results at http://whatcanidowiththismajor.com/major/

Areas of specialty

- Acoustical Physics
- Astronomy
- Astrophysics
- Biophysics
- Chemical Physics
- Condensed Matter
- Engineering
- Geophysics
- Medical Physics
- Nuclear Physics
- Optical Physics
- Particle Physics
- Science Education
- High Energy Physics
- Health Physics

Potential Employers

- State Agencies
- Federal Agencies
- Nonprofit Research Centers
- Engineering firms
- Public and private K-12 schools
- Universities and colleges
- Manufacturing Firms
- Consulting Firms
- Law Firms
- Software Developers
- Medical Industries
- Observatories
- Planetariums
- Science museums
- Physicists are interested in solving complex, technical problems, often extending for long periods of time.
- Visit government laboratories or research centers to learn more about opportunities in the field. Schedule informational interviews to learn about the profession and specific career paths.
- Join relevant professional associations. Attend meetings and stay up-to-date on research/ publications.
- Gain experience using scientific instruments and equipment. Computer skills are critical.
- Participate in summer research institutes.
- A bachelor's degree will qualify for positions as research assistants, high-level technicians, or computer specialists, as well as nontechnical work in publishing or sales.
- An undergraduate degree also provides a solid background for pursuing advanced degrees in other employment areas such as law, business, or accounting.