

PHYSICS MAJOR REQUIREMENTS

This major is selected by students planning on graduate study in physics or engineering or on a physics-related career in industry.

REQUIRED COURSES:

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| PHYS 221/222 | General Physics I, II |
| PHYS 305 | Electronics |
| PHYS 308 | Modern Physics |
| PHYS 311 | Classical Mechanics I |
| PHYS 331 | Electricity and Magnetism I |
| PHYS 345 | Experimental Physics |
| PHYS 460 | Seminar |

And nine additional credits from courses numbered 300 or above.

SUPPORTING COURSES:

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|--------------|------------------|
| MATH 131/132 | Calculus I, II |
| MATH 231/232 | Calculus III, IV |

APPLIED PHYSICS MAJOR REQUIREMENTS

This major is designed primarily for students interested in careers in engineering or technology.

REQUIRED COURSES:

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|--------------|-----------------------|
| PHYS 221/222 | General Physics I, II |
| PHYS 308 | Modern Physics |
| PHYS 460 | Seminar |

SUPPORTING COURSES:

| | |
|--------------|----------------|
| MATH 131/132 | Calculus I, II |
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Students must select additional courses as outlined in one of the following tracks.

A. Engineering Physics Track

This track cannot be taken as a dual major with a major in physics.

REQUIRED COURSES:

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|--------------|---------------------------|
| CHEM 161/162 | General Chemistry I, II |
| PHYS 311/312 | Classical Mechanics I, II |

And four additional courses numbered 300 or above chosen from the Department of Physics.

SUPPORTING COURSES:

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|--------------|------------------|
| MATH 231/232 | Calculus III, IV |
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B. Physics and Technology Track

This track cannot be taken as a dual major with a major in computer science or physics.

REQUIRED COURSES:

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| CSCI 200 | Introduction to Programming |
| CSCI 205 | Data Structures & Abstraction |
| CSCI 225 | Mathematical Structures for Computer Science |
| PHYS 305 | Electronics |
| PHYS 306 | Digital Electronics |

And three additional courses numbered 300 or above chosen from the Departments of Physics and Mathematics and Computer Science (at least one from each department).

C. Physical Science Track

This track cannot be taken as a dual major with a major in chemistry or in physics.

REQUIRED COURSES:

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|--------------|-------------------------|
| CHEM 161/162 | General Chemistry I, II |
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And 18 additional credits in courses numbered 300 or above chosen from the Departments of Physics and Chemistry (at least six from each department).

SUPPORTING COURSES:

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|--------------|------------------|
| MATH 231/232 | Calculus III, IV |
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PHYSICS AND MATHEMATICS MAJOR REQUIREMENTS

This major is designed primarily for students wishing to certify to teach physics and mathematics at the secondary level and may not be taken as a dual major with the major in Mathematics or Physics.

REQUIRED COURSES IN PHYSICS:

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|--------------|-----------------------|
| PHYS 221/222 | General Physics I, II |
| PHYS 305 | Electronics |
| PHYS 308 | Modern Physics |
| PHYS 345 | Experimental Physics |