

PHYSICS MAJOR WITH PROFESSIONAL CONCENTRATION

(BS PROGRAM)



EDGEWOOD COLLEGE

2016-2017 Catalog

Declaration of Major

Name: _____ ID: _____

Major Advisor Approval: _____ Date: _____

Department Chair Approval: _____ Date: _____

Intended Graduation Month: January August May Intended Graduation Year: _____

THIS FORM IS TO ADD/DECLARE A MAJOR. IF YOU WISH TO DROP/REMOVE A PREVIOUSLY DECLARED MAJOR, YOU MUST SUBMIT A SEPARATE MAJOR DECLARATION DROP FORM. THIS FORM IS AVAILABLE AT REGISTRAR.EDGEWOOD.EDU

This concentration is designed for students who are considering a career in physics or related sciences. Additional coursework may be taken through the Collaborative program at UW-Madison

Major Requirements:

Transfer credit applied (including AP/CLEP/etc):

Requirements for the Major:

Course / Institution

| | | | |
|----------|----|--|--|
| PHYS 201 | SU | College Physics I* | |
| PHYS 202 | S | College Physics II* | |
| PHYS 310 | | Principles of Mechanics* | |
| PHYS 350 | I | Scientific Computing* | |
| PHYS 360 | X | Relativity & Quantum Mechanics* | |
| PHYS 480 | K | Physics Seminar* | |
| CHEM 400 | 3 | Ethics and Responsibility in Scientific Research | |

The following Mathematics courses:

| | | | |
|----------|---|---------------|--|
| MATH 231 | M | Calculus I* | |
| MATH 232 | M | Calculus II* | |
| MATH 233 | M | Calculus III* | |

Additional required courses:

| | | | |
|----------|--|----------------------------------|--|
| PHYS 300 | | Mathematical Methods in Physics* | |
| PHYS 320 | | Electromagnetism* | |
| PHYS 361 | | Thermodynamics & Kinetics* | |
| PHYS 489 | | Undergraduate Research* | |

Additional 6 elective credits in Physics chosen from:

| | | | |
|----------|----|----------------------------------|--|
| NATS 250 | PV | History & Philosophy of Science* | |
| PHYS 110 | 1V | Society's Grand Challenges* | |

| | | | |
|----------|---|-------------------------------------|--|
| PHYS 220 | V | Introduction to Human Biomechanics* | |
| PHYS 250 | V | Survey of Astronomy* | |
| PHYS 479 | | Independent Study* | |

**course has prerequisites*

Policies:

A student must maintain a cumulative grade point average of at least 2.0 in all courses taken to fulfill the major and concentration requirements.

Any course in which a student receives a grade below “CD” will not be accepted toward the major.

Transfer students must take a minimum of 12 physics credits at Edgewood College.

All transfer courses must be approved by the department.

Elective courses may be taken through the UW-Madison Collaborative Program or through Madison College Partnerships in Electrical Engineering, Renewable Energy, or Civil Engineering. See your advisor for details.