

PHYSICS MAJOR

(BS PROGRAM)

ELECTRICAL ENGINEERING EMPHASIS

2017-2018 Catalog

Information Sheet



EDGEWOOD COLLEGE

This Information Sheet is for advising purposes only. Do not submit this form as a Major/Minor Declaration Form; a separate form is required to declare your major/minor.

This concentration will offer students the opportunity to pursue employment in the electronics industry, or prepare for graduate study in electrical engineering. Students will earn a BS in Physics with a concentration in Electrical Engineering. Coursework in Electrical Engineering will be taken at Madison College. Note: Additional coursework may be required if a student wishes to earn a professional license in Electrical Engineering Technology. Students wishing to pursue graduate work in physics or engineering should consult their advisor for recommended course work.

Major Requirements:

Requirements for the Major:

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 320		Electromagnetism*
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24 credits in Electrical Engineering Technology from Madison College

**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.