

PHYSICS MAJOR WITH ELECTRICAL ENGINEERING EMPHASIS

(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 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:

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 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.