



EDGEWOOD
COLLEGE

EDGEWOOD COLLEGE & UW - PLATTEVILLE **ENGINEERING** *Dual Degree Program*



UNIVERSITY OF WISCONSIN
PLATTEVILLE

THE PROGRAM

In this program, students will earn both a bachelor's degree in Physics from Edgewood and a bachelor's degree in either Electrical Engineering or Mechanical Engineering. If a student is prepared, the program will take five years to complete: three years at Edgewood, followed by two years at UWP.

CURRICULUM AT EDGEWOOD COLLEGE

Students interested in this program should plan to major in Physics: Pre-Engineering. The Pre-Engineering concentration includes the courses that are required to be completed before admission to UWP. See the next page for details.

GENERAL EDUCATION

Students will complete all general education courses at Edgewood before transferring to UW-Platteville. Students will not be eligible to apply for transfer to UWP until they have completed all general education requirements at Edgewood. All general education requirements at UWP will be waived for dual degree students.

WHAT SHOULD I TAKE DURING MY FIRST YEAR?

General Physics 1 & 2 (PHYS 201 and PHYS 202) are calculus-based introductory physics courses. Students who are ready to take calculus when they start at Edgewood can take PHYS 201 concurrently with Calculus 1 (MATH 231) in the Fall. In the Spring semester, they should plan to take PHYS 202 and Calculus 2 (MATH 241). If you have AP credit for Calculus, you are good to take PHYS 201 during your first semester on campus.

If you are not ready to take calculus when you enroll at Edgewood, plan to take College Algebra and/or Pre-calculus (MATH 114A/B) during your first semester and then MATH 231 in the Spring. In order to stay on track to complete all Edgewood requirements in three years, you should plan to take Calculus 2 in the summer after your freshman year.

HOW DO I APPLY TO UW-PLATTEVILLE?

The dual degree program is competitive, which means that you will have to apply for admission to UW-Platteville. Plan to apply during your third year at Edgewood. Strong candidates will have at least a GPA of 3.0 in your math/science classes and a 3.0 overall. If you don't meet the admissions requirements for UWP, you can still finish your Physics degree at Edgewood.

Upon acceptance to UW-Platteville, you will become a UWP student and be required to pay tuition and fees to UWP. Financial Aid will be determined by UW-Platteville, so don't assume that your scholarships with transfer.

WHEN DO I GRADUATE?

Upon completion of the program, you will have earned two bachelor's degrees. You can apply for your Edgewood degree when you have met the three graduation requirements: (1) complete all major requirements, (2) complete all general education requirements, and (3) complete 120 credits. Ideally, you will have finished the first two requirements when you transfer to UWP. You will then need to reverse transfer credits from your 4th year back to Edgewood to meet the 120 credit requirements. At that time, you may graduate from Edgewood. You may apply for graduation from UWP when you have completed their major requirements.

QUESTIONS? CONTACT Rachael Lancor, *Associate Professor of Physics*: rlancor@edgewood.edu

PHYSICS: PRE-ENGINEERING MAJOR

This major is designed for students who wish to pursue a career in engineering. Students who complete this concentration are eligible to apply for Dual Degree Program at UW-Platteville in Mechanical Engineering or Electrical Engineering.

REQUIRED COURSES FOR MAJOR:

- Phys 160 Introduction to Engineering (3 cr)
- Phys 201 S College Physics 1 (4 cr)
- Phys 202 S College Physics 2 (4 cr)
- Phys 300 Mathematical Methods in Physics (3 cr)
- Phys 311 Statics (3 cr)
- Phys 360 Relativity & Quantum Mechanics (4 cr)
- Phys 480 Physics Seminar (1 cr)
- Chem 400 3 Ethics & Responsibility in Scientific Research (1 cr)

CHOOSE ONE:

- Phys 170 Engineering Modeling & Design (3 cr) (required for ME)
- CS 180 Object Oriented Programming in Java (3 cr) (required for EE)
- Phys 350 I Scientific Computing (3 cr)

THE FOLLOWING CHEMISTRY COURSES (8 CR):

- CHEM 120 S General Chemistry 1 (4 cr)
- CHEM 121 S General Chemistry 2 (4 cr)

THE FOLLOWING MATHEMATICS COURSES (15 CR):

- Math 231 M Calculus 1 (4 cr)
- Math 241 Calculus 2 (4 cr)
- Math 251 Calculus 3 (4 cr)
- Math 331 Differential Equations (3 cr)

At least 3 credits, elective course in Physics (must be at the 300-level or above). For students who transfer to UWP, this requirement will be fulfilled by courses taken in ME or EE at UWP.



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WE WANT TO HEAR FROM YOU!
For questions

Contact Rachael Lancor at:
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