Physics and Engineering Dual Degree

At UW-Eau Claire
Want a degree in both physics and engineering? Want to do it all in five years? UW-Eau Claire has a dual degree program that allows students to receive a physics degree in conjunction with an engineering school degree. You’ll start by taking a number of courses in physics, chemistry and computer science, as well as math, English and general education. After successfully completing the course requirements and meeting the criteria, you can choose to transfer to either UW-Madison’s College of Engineering or the College of Science and Engineering in the Twin Cities to begin the course work for an engineering degree.

Increased employability
Employers are particularly taken with the Dual Physics/Engineering graduates. Your enhanced breadth and depth of dual majors will set you apart from graduates with just an engineering degree.

You’ve got options
Because the courses for the first two years of the dual degree program are the same as those for the Pre-Engineering program, students can wait until their junior year to make the decision to either pursue a dual degree in physics and engineering or transfer to an engineering school.

Strong foundation
Math and physics are essential skills for anyone pursuing a career in engineering. The Physics degree curriculum at UW-Eau Claire provides a stronger foundation in math and physics than those courses required for an engineering degree alone, and most UW-Eau Claire graduates earn a minor in math, further enhancing their employability.

Dedicated faculty
At UW-Eau Claire you’ll find small classes taught by talented professors who know your name. You’ll work alongside faculty outside class, conducting research projects and sharing ideas!

Outstanding graduates
UW-Eau Claire graduates more physics majors than most other four-year colleges in the country, according to a recent American Institute of Physics study. One of those graduates, Jonathan Watson, was a scientist at MIT Lincoln Laboratory, a federally funded research and development center. He works in the Air and Missile Defense Technology division. Watson said he was well-prepared for his graduate studies at MIT and his career. “The Physics program provided a breadth to my undergraduate studies that I would have missed in more specialized engineering programs. The program provided a level of flexibility in working on technical problems that I wouldn’t have otherwise.”

“The physics dual degree program sets you up for success as an engineering student and makes you a standout candidate when you start pursuing a career.”
— Bob

Our graduates
Places our grads go:
• Graduate School, Aerospace Engineering and Mechanics, University of Minnesota-Twin Cities, Minneapolis, MN
• Production and System Engineering, Oak River Technology, Oakdale, MN
• Materials engineering
• Quality Engineer and World Wide Stop Ship Coordinator, IBM in Rochester, MN
• Industrial Engineer, Bechtel National, Frederick, MD
• Owner, Electronics Design/Consulting Firm, San Francisco, CA
• National Research Council Research Associate, NASA Johnson Space Center, Houston, TX
• Test Engineer at Medtronic, Minneapolis, MN
• Graduate School, Aerospace Engineering, Stanford University

Major
Physics and Engineering Dual Degree

Suggested freshman curriculum
University Physics
Calculus I and II
University writing requirement — depending on placement exam. For test-out options, see uwec.edu/Blugoldseminars/testout.
General Chemistry I and II

Note: Students planning to transfer to UW-Madison should consult with a dual degree adviser before signing up for a computer science course.

Engineering school requirements and majors
GPA requirements are competitive. Please consult with your advisor for current trends.

UW-Madison College of Engineering
Principal fields within the engineering program are:
• Biomedical engineering
• Chemical engineering
• Civil engineering
• Electrical and Computer engineering
• Engineering physics and mechanics
• Industrial engineering
• Materials engineering
• Mechanical engineering
• Nuclear engineering

UM-Twin Cities College of Science and Engineering
Principal fields within the engineering program are:
• Aerospace engineering
• Biomedical engineering
• Civil engineering
• Electrical and Computer engineering
• Industrial engineering
• Materials engineering
• Mechanical engineering