

ENGINEERING AND APPLIED SCIENCE (EAS)

Engineering and Applied Science Courses

EAS 1 Engineering Co-op Work Period

1 cr. Undergraduate.

One semester work period in an industrial environment.

Prerequisites: prior consent of co-op director.

Course Rules: Considered full time for FA purposes. Credit/No Credit only. May be retaken but only 3 cr count toward graduation.

Last Taught: Summer 2025, Spring 2025, Fall 2024, Summer 2024.

Current Offerings: <https://catalog.uwm.edu/course-search/>

EAS 100 CEAS Freshman Orientation

1 cr. Undergraduate.

An introduction to problem solving in engineering and computer science.

Prerequisites: none.

Course Rules: Credit/No Credit grading option only.

Last Taught: Fall 2021, Fall 2020, Fall 2019, Fall 2018.

Current Offerings: <https://catalog.uwm.edu/course-search/>

EAS 110 Fundamentals of Smart Systems Engineering I

2 cr. Undergraduate.

Electrical sources, resistance, Kirchoff's laws, Resistive sensors, application, introduction to robotics, laboratory experiments and projects.

Prerequisites: MATH 115(C).

Last Taught: Spring 2025, Fall 2024, Spring 2024, Fall 2023.

Current Offerings: <https://catalog.uwm.edu/course-search/>

EAS 200 Professional Seminar

1 cr. Undergraduate.

Professional orientation and career planning. Current issues in the profession.

Prerequisites: none.

Last Taught: Spring 2025, Fall 2024, Spring 2024, Fall 2023.

Current Offerings: <https://catalog.uwm.edu/course-search/>

EAS 208 College of Engineering and Applied Science Internship Course

0-3 cr. Undergraduate.

Students conceptualize, understand, and apply the experiences of their internship. Students will consider the questions, among others: 'What is an internship?', and 'How does my internship connect to my career and to my community?'

Prerequisites: consent of instructor.

Course Rules: If credit has been earned for the course, it can be retaken, but only as the zero credit option.

Last Taught: Summer 2025, Spring 2025.

Current Offerings: <https://catalog.uwm.edu/course-search/>

EAS 210 Fundamentals of Smart Systems Engineering II

2 cr. Undergraduate.

Electrical capacitance, inductance, simple circuit application, diodes, opamps, digital logic, microcontroller basics, laboratory experiments and projects.

Prerequisites: EAS 110(P).

Last Taught: Spring 2025, Fall 2024, Spring 2024, Fall 2023.

Current Offerings: <https://catalog.uwm.edu/course-search/>

EAS 290 Topics in Engineering and Applied Science:

1-3 cr. Undergraduate.

Lectures on new introductory material in engineering and applied science. Variable-content course.

Prerequisites: specified in semester Schedule whenever required for topic.

Course Rules: May be retaken with change in topic.

Last Taught: Spring 2024, Spring 2023, Spring 2022, Fall 2021.

Current Offerings: <https://catalog.uwm.edu/course-search/>

EAS 297 Study Abroad:

1-5 cr. Undergraduate.

Designed to enroll students in UWM sponsored program. Course work, content, and credits determined at the time of offering.

Prerequisites: acceptance to Study Abroad Program and consent of CEAS Associate Dean for academic programs.

Course Rules: Retakable with change in topic to 12 cr max.

Last Taught: Spring 2025, Fall 2024, Summer 2022, Spring 2022.

Current Offerings: <https://catalog.uwm.edu/course-search/>

EAS 299 Independent Study

1-3 cr. Undergraduate.

Independent study on a topic of choice. Credit hours to be arranged between student and staff on an individual basis.

Prerequisites: consent of instructor.

Course Rules: May be retaken for degree cr.

Last Taught: Spring 2019, Summer 2018, Spring 2018, Fall 2017.

Current Offerings: <https://catalog.uwm.edu/course-search/>

EAS 350 Senior Leadership Seminar

1 cr. Undergraduate.

Elements of historical and modern social and professional leadership, preparing for a leadership position in industry, leadership and entrepreneurship, engineering management techniques.

Prerequisites: sr st.

Current Offerings: <https://catalog.uwm.edu/course-search/>

EAS 490 Sustainable Design for Community Development

3 cr. Undergraduate/Graduate.

Transdisciplinary students will work on sustainable projects and designs to address complex societal problems that require consideration of economy, environment, politics, and technology that leverage community-based knowledge.

Prerequisites: junior standing or consent of instructor; MECHENG 320(R).

Course Rules: EAS 490, FRSHWTR 490, and PEACEST 490 are jointly offered and count as repeats of one another.

Last Taught: Spring 2025.

Current Offerings: <https://catalog.uwm.edu/course-search/>

EAS 490G Sustainable Design for Community Development

3 cr. Undergraduate/Graduate.

Transdisciplinary students will work on sustainable projects and designs to address complex societal problems that require consideration of economy, environment, politics, and technology that leverage community-based knowledge.

Prerequisites: junior standing or consent of instructor; MECHENG 320(R).

Course Rules: EAS 490, FRSHWTR 490, and PEACEST 490 are jointly offered and count as repeats of one another.

Last Taught: Spring 2025.

Current Offerings: <https://catalog.uwm.edu/course-search/>

EAS 497 Study Abroad:

1-5 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program. Course work, level, content, and credits determined at the time of offering.

Prerequisites: acceptance to Study Abroad Program and consent of CEAS Associate Dean for Academic Programs.

Course Rules: May be retaken with change in topic to 12 cr max for undergraduate students and 9 cr max for graduate students.

Last Taught: Fall 2024, Spring 2024.

Current Offerings: <https://catalog.uwm.edu/course-search/>

EAS 497G Study Abroad:

1-5 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program. Course work, level, content, and credits determined at the time of offering.

Prerequisites: acceptance to Study Abroad Program and consent of CEAS Associate Dean for Academic Programs.

Course Rules: May be retaken with change in topic to 12 cr max for undergraduate students and 9 cr max for graduate students.

Last Taught: Fall 2024, Spring 2024.

Current Offerings: <https://catalog.uwm.edu/course-search/>

EAS 701 Effective Academic Writing

1 cr. Graduate.

Principles and practices for effective academic research writing.

Prerequisites: graduate standing.

Course Rules: Counts as a repeat of MECHENG 890 with similar topic.

Last Taught: Spring 2025, Fall 2024, Spring 2024, Fall 2023.

Current Offerings: <https://catalog.uwm.edu/course-search/>

EAS 702 Preparing Future Engineering Faculty & Professionals

2 cr. Graduate.

A survey of the graduate student experience and of academic and professional life after graduation

Prerequisites: graduate standing.

Course Rules: Counts as a repeat of MECHENG 890 with similar topic.

Last Taught: Spring 2025, Fall 2024, Spring 2024, Fall 2023.

Current Offerings: <https://catalog.uwm.edu/course-search/>

EAS 710 Managing Human Resources and Teams

3 cr. Graduate.

A survey of the major functions and processes of human resource management and team management covering talent acquisition, development, management, evaluation, and optimization and foundations of team building and management.

Prerequisites: graduate standing.

Current Offerings: <https://catalog.uwm.edu/course-search/>