ENGINEERING AND APPLIED SCIENCE (GRADUATE PROGRAMS)

With the exception of the Master of Science in Computer Science, the graduate programs offered by the College of Engineering and Applied Science are college-wide programs, and the responsibility for these programs is vested in the graduate faculty of the College operating via an interdepartmental committee, the Graduate Program Subcommittee (GPSC).

The engineering master's program offered by the College is the Master of Science in Engineering.

The program provides breadth by requiring a program of coursework and depth through participation in research or design synthesis. The research or design synthesis effort is documented in a thesis that is presented and defended by the student at the final degree examination. For those with prior engineering/scientific work experience which includes appropriate report writing, the program offers a non-thesis option which requires additional coursework in lieu of thesis.

Since the program does not require a rigid set of courses, each student, in consultation with faculty, has the flexibility to put together a program of study which is compatible with the student's career objectives. The flexibility of customizing the program of study makes the Master of Science in Engineering Program suitable as a terminal degree as well as a stepping stone for doctoral level study.

Related Certificates
- Certificate in Advanced Computational Imaging (http://catalog.uwm.edu/engineering-applied-science/engineering-applied-science/advanced-computational-imaging-graduate-certificate)
- Certificate in Energy Engineering (http://catalog.uwm.edu/engineering-applied-science/engineering-applied-science/energy-engineering-graduate-certificate)
- Certificate in Ergonomics (http://catalog.uwm.edu/engineering-applied-science/engineering-applied-science/ergonomics-graduate-certificate)

Programs
- Advanced Computational Imaging, Graduate Certificate (http://catalog.uwm.edu/engineering-applied-science/engineering-applied-science/advanced-computational-imaging-graduate-certificate)
- Energy Engineering, Graduate Certificate (http://catalog.uwm.edu/engineering-applied-science/engineering-applied-science/energy-engineering-graduate-certificate)
- Engineering, MS (http://catalog.uwm.edu/engineering-applied-science/engineering-applied-science/engineering-ms)
- Engineering, MS/Urban Planning, MUP (http://catalog.uwm.edu/engineering-applied-science/engineering-applied-science/engineering-ms-urban-planning-mup)
- Engineering, MS: Biomedical Engineering (http://catalog.uwm.edu/engineering-applied-science/engineering-applied-science/engineering-biomedical-ms)
- Engineering, MS: Civil Engineering (http://catalog.uwm.edu/engineering-applied-science/engineering-applied-science/engineering-civil-engineering-ms)
- Engineering, MS: Electrical and Computer Engineering (http://catalog.uwm.edu/engineering-applied-science/engineering-applied-science/engineering-electrical-and-computer-ms)
- Engineering, MS: Energy Engineering (http://catalog.uwm.edu/engineering-applied-science/engineering-applied-science/engineering-energy-ms)
- Engineering, MS: Engineering Management (http://catalog.uwm.edu/engineering-applied-science/engineering-applied-science/engineering-management-ms)
- Engineering, MS: Engineering Mechanics (http://catalog.uwm.edu/engineering-applied-science/engineering-applied-science/engineering-engineering-mechanics-ms)
- Engineering, MS: Industrial and Systems Engineering (http://catalog.uwm.edu/engineering-applied-science/engineering-applied-science/engineering-industrial-management-ms)
- Engineering, MS: Manufacturing Engineering (http://catalog.uwm.edu/engineering-applied-science/engineering-applied-science/engineering-manufacturing-ms)
- Engineering, MS: Materials Engineering (http://catalog.uwm.edu/engineering-applied-science/engineering-applied-science/engineering-materials-ms)
- Engineering, MS: Mechanical Engineering (http://catalog.uwm.edu/engineering-applied-science/engineering-applied-science/engineering-mechanical-ms)
- Engineering, MS: Occupational Biomechanics/Ergonomics (http://catalog.uwm.edu/engineering-applied-science/engineering-applied-science/engineering-occupational-biomechanics-ergonomics-ms)
- Engineering, PhD (http://catalog.uwm.edu/engineering-applied-science/engineering-applied-science/engineering-phd)
- Ergonomics, Graduate Certificate (http://catalog.uwm.edu/engineering-applied-science/engineering-applied-science/ergonomics-graduate-certificate)

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 cons co-op dir.
Course Rules: Cr/No cr only. May be retaken but only 3 cr count toward graduation.
Current Offerings: http://uwm.edu/schedule

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 2014, Fall 2013, Fall 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule
EAS 200 Professional Seminar
1 cr. Undergraduate.
Professional orientation and career planning. Current issues in the profession.
Prerequisites: none.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

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.
Current Offerings: http://uwm.edu/schedule

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 Prog; cons CEAS assoc dean for academic prog.
Course Rules: Retakable with change in topic to 12 cr max.
Current Offerings: http://uwm.edu/schedule

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: cons instr.
Course Rules: May be retaken for degree cr.
Current Offerings: http://uwm.edu/schedule

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: http://uwm.edu/schedule

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 Prog; cons CEAS assoc dean for academic prog.
Course Rules: May be retaken w/chg in topic to 12 cr max for undergrad & 9 cr max for grad.
Current Offerings: http://uwm.edu/schedule

Contact Information
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