ENGINEERING (ENGR)

100 Level Courses
ENGR 107: Introduction to Engineering. 2 credits.
Introduces engineering profession fundamentals and problem-solving.
Topics include description of engineering disciplines, functions of the
engineer, professionalism, ethics and registration, problem solving and
representation of technical information, estimation and approximations,
and analysis and design. Offered by Electrical & Computer Engineer.
Limited to two attempts.

Mason Core: Information Technology: Ethics Only
Registration Restrictions:
Students with the terminated from VSE major attribute may not enroll.

Schedule Type: Lecture

200 Level Courses
ENGR 202: Thermodynamics. 3 credits.
Offered by Electrical & Computer Engineer. May not be repeated for
credit.

Schedule Type: Lecture

300 Level Courses
ENGR 395: Engineering Internship. 0-3 credits.
Students will participate in experiential learning in an industrial setting.
Students must identify work opportunity and seek advisor approval prior
to registering. Course credit will not satisfy degree requirements. Offered
by Electrical & Computer Engineer. May be repeated within the degree for
a maximum 6 credits.

Recommended Prerequisite: Completion of at least 30 credit hours.

Schedule Type: Internship

ENGR 396: Engineering Co-Op I. 0-3 credits.
1st Semester of a multi-semester co-operative education experience.
Students will apply concepts and theories from the classroom to an
industrial setting. Students must identify work opportunity and seek
advisor approval prior to registering. Course credit will not satisfy degree
requirements. Offered by Electrical & Computer Engineer. May not be
repeated for credit.

Recommended Prerequisite: Completion of at least 30 credit hours.

Schedule Type: Lecture

ENGR 397: Engineering Co-Op II. 0-3 credits.
Second Semester of a multi-semester co-operative education experience.
Students will apply concepts and theories from the classroom to an
industrial setting. Students must continue employment from ME 396 and
seek advisor approval prior to registering. Course credit will not satisfy
degree requirements. Offered by Electrical & Computer Engineer. May not
be repeated for credit.

Recommended Prerequisite: ME 396.

Schedule Type: Internship

400 Level Courses
ENGR 498: Independent Study in Engineering. 1-3 credits.
Directed self-study of special topics of current interest in ENGR. Notes:
May be repeated if topics substantially different. Offered by Electrical &
Computer Engineer. May be repeated within the term for a maximum 6
credits.

Registration Restrictions:
Students with the terminated from VSE major attribute may not enroll.

Schedule Type: Independent Study

ENGR 499: Special Topics in Engineering. 0-4 credits.
Topics of special interest to undergraduates. Notes: May be repeated if
topics substantially different. Offered by Electrical & Computer Engineer.
May be repeated within the term for a maximum 11 credits.

Registration Restrictions:
Students with the terminated from VSE major attribute may not enroll.

Schedule Type: Lecture

700 Level Courses
ENGR 794: Graduate Internship. 0-3 credits.
Students with an Internship/Externship/Co-Op opportunity will
gain practical experience while engaging in an experiential learning
opportunity. Offered by Volgenau School of Engineering. May be repeated
within the degree for a maximum 6 credits.

Recommended Prerequisite: Completion of at least 18 credit hours.

Registration Restrictions:
Enrollment is limited to Graduate or Non-Degree level students.
Students in a Non-Degree Undergraduate degree may not enroll.
Enrollment limited to students in the Volgenau School of Engineering
college.

Schedule Type: Internship