500 Level Courses

**VSE 500: Special Topics.** 0-4 credits.
Select contemporary topics in Engineering and Computing. Offered by Volgenau School of Engineering. May be repeated within the degree for a maximum 6 credits.

**Specialized Designation:** Topic Varies

**Registration Restrictions:**
Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non-Degree or Senior Plus.

**Schedule Type:** Lecture

**Grading:**
This course is graded on the Graduate Special scale. (http://catalog.gmu.edu/policies/academic/grading/)

**VSE 501: Fundamentals of Computing, Engineering & Technology Education.** 3 credits.
Aimed at educating future and current engineering faculty on basic concepts, ideas, and issues of computing, engineering, and technology (CET) education to prepare them for future professoriate career and/or help improve current teaching practices. The course material provides a broad introduction to CET education covering historical foundations, theories of learning, and current topics of interest. It focuses on key conceptual questions related to CET learning including what are the characteristics of CET cognition, how is it different than other content areas, what approaches work best for CET learning, how to use theory-driven approaches in education, and the role of technology, including learning analytics and educational data mining, in CET education. Offered by Volgenau School of Engineering. May not be repeated for credit.

**Registration Restrictions:**
Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non-Degree or Senior Plus.

Students in a Non-Degree Undergraduate degree may not enroll.

**Schedule Type:** Lecture

**Grading:**
This course is graded on the Graduate Regular scale. (http://catalog.gmu.edu/policies/academic/grading/)

700 Level Courses

**VSE 794: Graduate Internship.** 1-3 credits.
Students with an Internship/Externship/Co-Op opportunity will gain practical experience while engaging in an experiential learning opportunity. Under the direction of a faculty member, the student will prepare and submit a deliverable defined by the faculty member for a grade. Offered by Volgenau School of Engineering. May be repeated within the degree for a maximum 6 credits.

**Recommended Corequisite:** Completion of at least 18 credit hours.

**Registration Restrictions:**
Enrollment limited to students with a class of Advanced to Candidacy, Graduate or Non-Degree.

Students in a Non-Degree Undergraduate degree may not enroll.

Enrollment limited to students in the Volgenau School of Engineering college.

**Schedule Type:** Internship

**Grading:**
This course is graded on the Satisfactory/No Credit scale. (http://catalog.gmu.edu/policies/academic/grading/)