Master of Science in Engineering Data Analytics and Statistics (MSDAS)

Either a thesis option or a course option may be selected. The special requirements for these options are as follows:

**Course Option**

The Master of Science in Engineering Data Analytics and Statistics is an academic master's degree designed mainly for both full-time and part-time students interested in proceeding to the departmental full-time doctoral program and/or an industrial career. Under the course option, students may not take ESE 599 Master's Research. With faculty permission, they may take up to 3 units of graduate-level independent study.

**Thesis Option**

This option is intended for those pursuing full-time study and engaged in research projects. Candidates for this degree must complete a minimum of 24 units of course instruction and 6 units of thesis research (ESE 599); 3 of these units of thesis research may be applied toward the 15 core electrical engineering units required for the MSEE program. Any of these 6 units of thesis research may be applied as electives for the MSEE, MSSSM, and MSDAS programs. The student must write a master's thesis and defend it in an oral examination.

**Degree Requirements**

The MS in Engineering Data Analytics and Statistics (MSDAS) degree requires 30 units.

- Required courses (15 units) for the MS degree include the following:

  ![Code | Title | Units](example)

- At least three electives from the following list:

  ![Code | Title | Units](example)

  * This course can be taken as an elective if it is not taken to satisfy a requirement.

- Students may take up to 6 units of free electives. Please consult the ESE departmental website for a list of allowable electives.

- ESE 590 Electrical & Systems Engineering Graduate Seminar must be taken by full-time graduate students each semester. This course is taken with the unsatisfactory/satisfactory grade option.

- A maximum of 6 units may be transferred from another institution and applied toward the master's degree.

- The degree program must be consistent with the residency and other applicable requirements of Washington University and the McKelvey School of Engineering.

- Students must obtain a cumulative grade-point average of at least 3.0 out of a possible 4.0 overall for courses applied toward the degree. Courses that apply toward the degree must be taken with the credit/letter grade option.