Wichita State University
Department of Electrical and Computer Engineering

Master of Science in Electrical Engineering

The Master of Science degree in Electrical Engineering (MSEE) requires the completion of a Plan of Study approved by the student's advisor and the department graduate coordinator. This Plan must be filed before completing the first 12 credit hours of graduate course work. When a Plan of Study is filed, a maximum of 12 hours of completed and in-progress course work may be used on the Plan.

Three MSEE options are available:

1. The *thesis* option requires a minimum of 24 hours of course work plus a minimum of 6 hours of thesis,
2. The *directed project option* requires a minimum of 30 hours of course work plus a minimum of 3 hours of directed project, and
3. The *course work option* requires a minimum of 33 hours of course work plus an exit exam.

At least 60 percent of the hours in the Plan of Study must be 700-level or above. Additional details of the MS degree may be obtained from the department graduate coordinator.

All new MS graduate students will be initially admitted in the *Course Work option*. When they file their Plan of Study, that option may be changed to *Directed Project* or *Thesis* if the advisor who approves the Plan of Study agrees to advise them on a Directed Project or Thesis.

**Course Work Option**

Students in the course work option must pass an Exit Exam to fulfill their graduation requirements. The Exit Exam for the coursework option will be offered once each semester. The date of the exam will be announced at the beginning of the semester. Each student will be allowed three hours to complete the Exam, which covers two areas that have been determined by the student prior to the date of the Exam. To qualify to take the exam during a given semester, the student must have completed eighteen hours of coursework by the end of the semester in which the Exam is taken. In the event of an unsuccessful attempt, the student may retake the exam in a subsequent semester and has the option of selecting new areas, or the student may select a different MS option. After a second unsuccessful attempt, another MS option must be chosen.

The available areas with relevant courses are:

1) Software Engineering: ECE738 and ECE744
2) Advanced Computer Architecture: ECE844 and ECE894
3) Communications: ECE726 and ECE754
4) Control: ECE684 or ME659 and ECE792
5) Signal Processing: ECE781 and ECE782
6) Power Systems: ECE598 and ECE798
7) Optics: ECE510 and ECE810
8) Computer Networking: ECE736 and ECE764
9) Information Security: ECE765 and ECE766
10) Device-Level Integrated Circuits: ECE691 and ECE791

For more information, please check our web site at [http://www.wichita.edu/ece/](http://www.wichita.edu/ece/)

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