Department of Electrical Engineering and Computer Science (EECS) Summary of Requirements for
Master of Science in Computer Engineering (MSCE)
Fall 2014

1. A minimum of 30 credits of graduate work beyond the B.S. degree is required.

2. The student must maintain a cumulative total GPA of at least a 3.0 in those courses to be credited towards the M.S. degree, and a minimum cumulative total GPA of 2.8 in all graduate courses taken at Syracuse University.

3. A maximum of 9 credits of transfer credit of graduate coursework taken at another university with a grade of B or better may be included in an M.S. program.

4. A maximum of 12 credits taken at Syracuse University before the semester of admission may be included in an M.S. program provided they are relevant to a program in computer engineering and have a grade of B or better.

5. Late in the first semester, the student fills out a preliminary program of study. Early in a student's final semester, a Program of Study must be submitted on forms available from the department. A Diploma Request Card must also be submitted at that time.

6. To maintain full-time status in the EECS Department, students must register for at least 9 credits per semester. During the last semester of course work, student can take less than 9 credits be considered as full-time student. Part-time students must complete at least 6 credits per academic year.

7. Each student must select one of the three following tracks for the degree: (1) Hardware Systems Track, (2) Software Systems Track, and (3) Security and Assurance Systems Track. Each student's program must include CSE 674* and CSE 661. Moreover, each student in the Hardware Systems Track must include CSE 664 and CSE 687 in their program, each student in the Software Systems Track must include CSE 681 and CSE 687 in their program, and each student in the Security and Assurance Systems Track must include CSE 643 and CSE 644 in their program. These courses represent the student's core program and are to be taken as early as possible in the program. In addition, each student's program must include at least two more elective track-specific courses in the selected track as specified by the Computer Engineering Program Committee. The followings are some examples of the track related electives.

   Electives for Hardware System Track:
       CSE 561, CSE 788, ELE 643, CSE 671, CSE 731, CSE 765.

   Electives for Software Systems Track:
       CIS 625, CIS 657(s), CSE 643, CSE 682, CSE 776, CSE 778, CIS 623, CSE 644, CSE 686, CSE 775, CSE 782, CSE 784, CSE 787.

   Electives for Security and Assurance Systems Track:
       CSE 774, CSE 681, CIS 657(s), CSE 607(s), CIS 628, CSE 765, CSE 687.

8. Programs must include a minimum of 18 credits of CSE courses.

9. Candidates are required to complete the final examinations in all core courses with an average grade of B– or better.

10. No more than 6 credits of 500-level courses may be included in an M.S. program.

11. Taking courses offered by other department or courses not directly relevant to computer engineering will require prior approval by the CE program committee.

12. Students may select a thesis option up to 6 credits. The Master's Thesis must be prepared in accordance

with the Graduate School's instructions for the Preparation of Theses and Dissertations and must receive prior approval from the thesis advisor. Theses must be presented orally and defended before a faculty panel. Students electing the thesis option must include CSE 997 Master's Thesis (normally 6 credits) in their programs of study.

13. Student may take up to 3 independent study credits. Anything above that will require prior approval from faculty advisor.

*CSE 674 *was formerly CSE 691 (Special Topics in Advanced Data Structure).*

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