

Catalog of Postgraduate Programs and Curricula

Curriculum for PhD(CSE) (For students admitted in 2010-11)

Program Requirements for Doctor of Philosophy (PhD) Program in Computer Science and Engineering

Credits

1. To complete **at least 21 credits** of PG courses (**7 courses**).
2. Of the 7 PG courses, 4 are required to be PG core courses in different selected core research areas. A list of the PG core courses and the areas they are affiliated to is maintained by the CSE Department.
 - a) At least 1 of the PG core courses should be in the area of “Theoretical Computer Science”.
 - b) Students must complete all 4 PG core courses in different areas by the end of their 2nd year of PhD studies, and of the 4 core courses, at least 2 must be completed in their 1st year of studies.
 - c) Students must obtain a B+ grade or above for all 4 PG core courses.

No UG course may be used to satisfy any of these PG course requirements.
3. Only 1 Independent Studies course (COMP 6931-6932 *Independent Studies*) may be used to satisfy the course requirements.
4. Credits transferred from programs completed in other universities will be considered on a case-by-case basis with approval from the departmental PG Committee. No UG courses can be used for credit transfer to the PhD program. Credits from no more than 2 PG courses can be transferred from outside the CSE department.

Postgraduate Seminar

To take COMP 6911 *Computer Science and Engineering Seminar I* and COMP 6912 *Computer Science and Engineering Seminar II* for 2 terms.

Language Requirements

Students must pass LANG 5001 *Postgraduate English for Academic Purposes*.

- (a) *The 1 credit earned from LANG 5001 cannot be counted toward the credit requirements.*
- (b) *Exemption from taking LANG 5001 may be granted by the Department Head and PG Coordinator.*

Qualifying Examination

1. Students must obtain a grade B or above in each of the following UG courses or equivalent, subject to the approval of the PG coordinator.

COMP	3511	<i>Operating Systems</i>
COMP	3711	<i>Design and Analysis of Algorithms</i>
COMP	3721	<i>Theory of Computation</i>

The credits earned from the above UG courses cannot be counted toward the degree requirements.

2. To pass a qualifying examination within the first 18 months after admission.

Research and PhD Thesis Examination

1. To submit a thesis proposal and to defend the proposal at a public oral examination, normally within 1 year after satisfying the qualifying examination requirement;
2. To conduct research and enroll in COMP 7990 *Doctoral Thesis Research*; and
3. To defend the PhD thesis successfully.

Concentration

Energy Technology Concentration

In addition to the program requirements specified above, students who opt for the Energy Technology concentration are required to:

- Take 1 ENEG course;
- Complete ENEG 6010 *Advanced Topics in Energy Technology* for 1 term; and
- Conduct research in energy area.