

Computer Science & Engineering Graduate Program

Prof. Thomas Wenisch Graduate Recruiting & Admissions



PhD Goals

Meaningfully extend the body of knowledge in Computer
Science & Engineering via original research

Become the world's foremost expert in the narrow topic of your dissertation

Enter as a student; leave as a colleague

Who to talk to?

- 1. Academic Advisor
 - Assigned when you arrive
 - Initial point of contact for selecting courses
- 2. Research Advisor
 - Selected by mutual consent within 1st year
 - Guides directed study, dissertation research
- 3. Dawn Freysinger
 - Administrative matters; confirming you are following rules
- 4. Prof. Ben Kuipers (Grad Program Committee Chair)
 - Petitions, concerns, questions about degree program

CSE Grad Program Stages

- 1. Qualification
 - Coursework & directed study
- 2. Candidacy
 - Qualifying exam & Cognate
- 3. Dissertation & Defense
 - Proposal & Defense

PhD Coursework

- Breadth Coursework
 - 3 courses in 3 different areas (HW, SW, Intel Sys, Theory)
 - Some 400-level SW courses count as ½
 - B+ or better
 - Equivalency allowed
- Depth Coursework
 - Any 2 courses on Depth list; at least 1 must be "starred"
 - A- or better
 - No equivalency permitted
- Rackham Cognate (4 grad credits outside CSE)

Early Research Requirements

- Directed Study within first 2 semesters
 - At least 1 credit of 599 or 699
 - Academic/research advisor can waive
- 1st Summer research requirement
 - Summer independent study with research advisor
 - Intent is to prepare for the qualifying exam
 - Must be done in Ann Arbor (can waive via petition)
 - Completing this is a condition of financial aid offer

Qualifying Exam

- Must present original research project to faculty panel
 - 3 faculty selected by grad committee (who are not involved in the research)
 - Directed study report (~typical research paper in your field)
 - ~45 minute presentation
 - ~45 minute Q&A
 - Deadline
 - Joined program w/o MS: 4 semesters
 - Already have an MS: 3 semesters

Proposal & Defense

- Thesis Committee
 - Selected by you; chaired by your advisor
 - 3 CSE faculty + 1 "Cognate" faculty
- Proposal
 - Oral & written presentation to committee
 - Deadline
 - Joined program w/o MS: 7 semesters
 - Already have an MS: 5 semesters
- Defense
 - Oral & written presentation to the public
 - Deadline
 - Joined program w/o MS: 12 semesters
 - Already have an MS: 10 semesters

Getting an MS along the way

- Complete PhD coursework & Rackham Cognate
- Achieve a total of 30 credits through a combination of
 - Approved CSE technical courses
 - Up to 6 hours of seminar (598) and directed study (599)
 - Up to 18 hours of PhD-oriented research (699)