

Synopsis of Ph.D. Requirements

Program Requirements

- 66 units overall
- 36 units of course work in major
- 9-12 units of course work in minor
- 18 units of dissertation
- Qualifying Examination (Portfolio)
- Comprehensive Examination (Thesis Proposal)
- Final Examination (Thesis Defense)

Course Requirements Proposal

The students have to take 6 courses in the following areas with a required course distribution of 2, 1, 1 from the 5 areas with additional 2 courses from any areas.

<p><u>Computing Systems</u></p> <ul style="list-style-type: none"> • 525 Principles of Computer Networking • 552 Advanced Operating Systems • 553 Principles of Compilation • 576 Computer Architecture 	<p><u>Software Systems</u></p> <ul style="list-style-type: none"> • 520 Principles of Programming Languages • 522 Parallel and Distributed Programming • 560 Database Systems Implementation
<p><u>Theory and Algorithms</u></p> <ul style="list-style-type: none"> • 545 Design and Analysis of Algorithms • 573 Theory of Computation 	<p><u>Applications</u></p> <ul style="list-style-type: none"> • 533 Computer Graphics • 537 Computational Geometry
<p><u>Artificial Intelligence</u></p> <ul style="list-style-type: none"> • 577 Introduction to Computer Vision 	

- 6 units in other graduate courses
- 12 units of research courses, typically 695C.

Minor Course Requirements

- 9 units for internal minor or 12 units for an external minor, approved by the minor department

Dissertation

- A scholarly contribution to the discipline approved and defended before the Doctoral Committee.
- 18 units of dissertation credit earned during research

Qualifying Examination (Portfolio)

- Complete the portfolio requirements and submit the portfolio for examination
- Minor qualifier may be waived by the minor department

Comprehensive Examination (Thesis Proposal)

- Written part consists of the thesis proposal.
- Oral thesis proposal given to the Doctoral Committee of at least three Major and one Minor professors

Final Examination (Thesis Defense)

- Oral examination in defense of the completed dissertation presented to the Doctoral Committee