

GRADUATE STUDENT CHECKLIST

Ph.D. Doctorate Checklist

This is to be used in conjunction with the checklist printed in the general catalog. All Graduate College and other University requirements apply.

Pre-requisites

_____ Completed the admission pre-requisites before taking the qualifying exams.

_____ All pre-requisites finished with B or better – on first attempt.

Dissertation Advisor

_____ Selected a member of the graduate faculty in Computer Science as advisor.

Qualifying Exams

_____ Passed qualifying exams.

Advisory Committee (becomes dissertation committee later)

_____ Formed the advisory committee from the dissertation advisor and at least four (4) more graduate faculty members.

_____ Majority of advisory committee members are from Computer Science.

_____ At least one committee members is from outside Computer Science.

Coursework

Required Courses

- CS 4313 Programming Languages
- CS 4413 Algorithm Analysis
- CS 4613 Computer Architecture
- CS 5113 Operating Systems Theory
- CS 5813 Formal Languages

The students should complete at least three (3) courses from the following set of five (5) courses.

- CS 4013 Artificial Intelligence
- CS 4513 Database Management
- CS 5053 Computer Graphics
- CS 5133 Data Networks
- CS 5743 Scientific Computing I

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_____ Sixty (60) hours of coursework included thirty (30) hours from MS and thirty (30) hours after MS (excluding dissertation research).

_____ All courses for graduate credit (“G” prefix in general catalog, no 3000 level courses or lower, all Ph.D. coursework taken within 6 years of admission to graduate college) or exempted by special approval.

_____ Must pass all required courses with B or better on first attempt.

_____ Students who have completed one or more of the required courses elsewhere may petition the graduate committee for a waiver.

_____ Counted no more than 16 credit hours at 4xxx level.

_____ Counted no more than 12 credit hours in CS 4xxx level courses.

_____ Counted no more than 9 credit hours in independent study courses (CS 5990).

_____ External courses, transfer credit, etc. approved by the advisory committee and report submitted.

_____ No more than (six) 6 credit hours in CS 5973 courses will be permitted – even with change of subject.

_____ At least 30 hours of dissertation research (CS 6980).

_____ Maintained continuous enrollment of at least two (2) credit hours of CS 6980 after initial enrollment.

_____ Total credit hours: ninety (90) or more hours after B.S.

General Exam

_____ Filed application for general examination.

_____ Passed the general exam – written and oral part in one or two attempts.

Publication & Presentation

_____ Presented at least one paper in an appropriate conference.

_____ Presented at least one seminar for our school.

Dissertation

_____ Final reading copy approved by dissertation advisor.

_____ Graduate College approves syntax and format of dissertation.

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_____ Defense committee given two weeks to read dissertation.

_____ Final reading copy given to CS graduate programs assistant 10 business days prior to defense, reserved room with CS graduate programs assistant and announcements posted with all information.

_____ Passed the final dissertation defense on the first attempt.

_____ Three copies of final dissertation deposited in the Graduate College and the library within sixty (60) days of defense. One bound copy given to School of Computer Science.

_____ Returned signed library card, Survey of Earned Doctorates and data entry form to Graduate College.

Graduation

_____ Paid graduation fee in Bursar's office.

Qualifying Examination

Objective: To test students' aptitude for research.

The qualifying examination will require a written and an oral examination. The format of this examination will be as follows:

- Each student must submit a written report on a topic of his/her choice in a research area covered by the Computer Science faculty.
- The report must involve an in-depth study and critical analysis of two or more archival publications and related references.
- The topic of the report and the papers to be studied must be approved by a committee of at least three Computer Science faculty, one of whom must be a member of the graduate studies committee.
- The report should summarize the articles read and go beyond their contents demonstrating the student's ability for critical analysis.
- The report will be evaluated by each member of the Committee.
- If the Committee finds the report satisfactory, they will schedule an oral examination where the committee questions the candidate. The oral examination may involve a short oral presentation, if the committee so chooses.
- A student will be allowed no more than two attempts to appear for the qualifying examination.
- Students must pass the qualifying examination within three regular semesters of joining the Ph.D. program (including any 2nd attempt).