

Name:

Advisor:

Admitted:

Year Term	pre-admit	2009 F	2010 S	2010 Su	2010 F	2011 S	2011 Su	2011 F	2012 S	2012 Su	2012 F
<b>Major Course Requirements (36 Units)</b>											
<b>CORE† (18 units total, minimum 3 units and maximum 6 units per core category)</b>											
<b>Computing Systems</b>											
525 Principles of Computer Networks											
552 Adv OS											
553 Compilation											
576 Computer Architecture											
<b>Software Systems</b>											
520 Program Languages											
522 Parallel and Distributed Computing											
560 Database Systems Implementation											
<b>Theory and Algorithms</b>											
545 Design and Analysis of Algorithms											
573 Computation											
<b>Applications</b>											
533 Computer Graphics											
537 Computational Geometry											
577 Introduction to Computer Vision											
Adv. Topics ‡ (≥6 units) (620, 630, 645, 650, 652)											
Colloquia 695A (1 unit)											
<b>Research Project 695C</b> (taken twice, 3 units each)											
<b>Electives</b> (≥ 500 Level; ≥ 6 units)											
<b>Minor (9-12 units)</b>											
<b>920 Dissertation (18 units)</b>											
Qualifying Exam											
<b>Comprehensive Exam</b>											
Major/Minor/Oral											
Final Oral											

Non-CSc units at 400-level (≤6) \_\_\_\_\_

Units graded A,B,C (≥33) \_\_\_\_\_

‡Advanced Topic requirement is *not* met by Seminar, Colloquium, Internship, Practicum, Workshop or Independent Studies courses.

†Courses taken to fulfill Core requirements cannot also be used to fulfill other course requirements

## Overall Course Requirements

- 63-66 units total, divided as 36 major units, 9-12 minor units and 18 dissertation units. The number of required minor units may vary; 12 is typical.
- At least half the required units (33 units) must be in courses graded A,B,C,D,E. That is, no more than half can be graded S/P,C,D,E or S/P,E (typically Independent Study or Thesis courses). No "Pass/Fail" courses allowed.
- The Graduate College permits *at most* six units of 400-level (non-graduate) courses to be part of the degree program; such units must be in courses *outside of the major department*.
- Deficiencies must be cleared by advisor.
- Cumulative graduate Grade Point Average (GPA) to graduate is  $\geq 3.00$ . Grade replacement (GRO) on one CS course for which a D or E was received is permitted.
- Core courses must have a minimum cumulative GPA of 3.50.

## Major

- There are six required core courses: two from the Systems area, two from the Theory area, and two from the Applications area. These can be transferred if equivalent material has been taken elsewhere. The remaining 18 units should consist of at least 6 units at the 500 level or above, at least 6 units at the 600 level, 1 unit of Research Colloquia (695A) and at least 6 units of Research project (C SC695C). The 600-level courses can be Advanced Topics, Seminar (696), or Independent Study (699) offerings.

## Minor

- Minor programs are specified *by the minor department*. They consist of at least 9 units and typically 12 units. Minor programs can often be split across two departments; consult with an advisor in the minor department(s).

## Transfer of Work

- At least 30 units of graduate credit must be completed at Arizona.
- Transfer of courses must be approved by faculty advisor upon submission of the *Plan of Study*.
- Minor as well as major courses can be transferred.
- Only grades of A or B can be transferred. Only graduate courses can be transferred. Extension courses cannot be transferred. Transfer units and grades will not be used in computing Grade Point Average (GPA).
- Quarter system units will be proportionally converted to semester units.

## Qualifying Examination

- The Major Qualifying Exam is based on the student having completed two C SC 695C courses (6 units total). The student will make an oral presentation to defend a research project conducted in C SC695C. This presentation will be presented in a colloquium setting. The faculty member overseeing the student's research will assign a grade and determine if the Major Qualifying Exam requirements have been met. Result is "Pass" or "Fail".
- Taken within 2 years of admission to PhD program, but in any case within one year of completion of the MS degree. Students arriving with a Master's degree from elsewhere take it in their first year.
- The minor qualifier may be waived by the minor department.

## Doctoral Degree Plan of Study

- Signed by major and minor advisors and major and minor department heads.
- Must be submitted in 3<sup>rd</sup> semester of residence and prior to Oral Comprehensive Examination.

## Comprehensive Examination

- Written Comprehensive divided into Minor and Major parts, usually taken at different times.
- Both Written and Oral Comprehensive must take place within two consecutive semesters.
- Oral Comprehensive held no later than 3 months before the Final Oral.
- Request to schedule the exam is due seven working days before the date of the examination.

## Advancement to Candidacy

- Must be submitted no later than 6 months before you schedule the Final Oral Defense.

## Final Oral Defense

- Oral examination in defense of the completed dissertation, including any general questioning which may develop related to the field of study.
- Scheduled with Graduate College at least seven working days before the date of the examination.
- Open to the public, except for Committee deliberations.

## Other Requirements

- Refer to the Graduate College document *A Handbook for Completing the Steps to Your Degree* (<http://grad.admin.arizona.edu/degrecert/handbooks/masters/>) for other Graduate College requirements and due dates.