How to Plan Your Program of Study

1. Complete all assigned prerequisite courses
2. Complete the Computer Science or Computer Engineering core courses
3. Complete your formal coursework requirements
4. Complete Residency Research
5. Candidacy Exam/Proposal
6. Complete Dissertation Research
7. Complete Publication requirements
8. Dissertation Defense

CHOOSE YOUR CORE

Computer Science Core Courses
- Theory
  - CS 7200 or CS 7220
  - and
  - Software
  - CS 7100 or CS 7140

Computer Engineering Core Courses
- Architecture
  - CEG 7450 or CEG 7350
  - and
  - Hardware
  - CEG 7030 or CEG 7360

and
- Systems & Applications
  - CEG 7370 or CS 7700

Completion of 60 (90) hours for students entering the program with a master's (bachelor's) degree, including:
- Completion of the Computer Science or Computer Engineering Core Courses Minimum 9 (B.S. level: 27) hours of formal coursework if admitted at M.S. level
- Minimum 18 hours of residency research
- Minimum 12 hours of dissertation research
- Minimum 1 journal paper or 2 conference papers accepted or published

SPECIALIZE

We offer courses that will allow you to specialize in the following areas.
- Software
- Hardware
- Intelligent Systems
- Data Analysis
- Vision and Graphics
- Mathematics of Computation
- Secure Software or Hardware

SEQUENCE FOR REGISTERING FOR PH.D GRADUATE HOURS

Fill out the Graduate Consent Form with your thesis advisor and sign the form before submitting for approval.

The CRN (used for registering) will be emailed to you so you can register for the course.

After completing the core requirements you may complete the following:
- CS or CEG 8920 Independent Study 1-6 credit hours
- CS or CEG 8940 Residency Research 1-12 credit hours Minimum of 18 credit hours of residency research.
- CS or CEG 8690 Candidacy exam 1 credit hour Completion of candidacy examination with satisfactory grade
- CS or CEG 8950 Dissertation Research 1-6 credit hours
- CS or CEG 8990 Dissertation Defense 1 credit hour Submission of an approved dissertation
CEG7020 Low Pwr VLSI Sys Des
CEG7030 VLSI Des Synth Optim
CEG7040 VLSI Testing Design
CEG7050 Trust Integ Ckt Design
CEG7060 Advanced Robotics
CEG7080 CMOS Mxd Sig IC Des
CEG7350 Computer Architecture
CEG7360 Embedded Systems
CEG7370 Distributed Computing
CEG7380 Cloud Computing
CEG7420 Rev Egr & Prog Analysis
CEG7450 Adv. Comp. Networks
CEG7470 Adv. Wireless Networks
CEG7550 Computer Vision&Pattern Recogn
CEG7560 Visual & Image Process
CEG7570 Pattern Recognition
CEG7580 Digital Image Processing
CEG7590 Medical Image Analysis
CEG7900 Selected Topics in CEG
CEG7920 Independent Study in CEG
CEG7980 Part-time CPT in CEG
CEG7990 Full-time CPT in CEG

CS7060 Numerical Analysis I
CS7070 Numerical Analysis II
CS7100 Adv. Prog. Languages
CS7120 Functional & Logic Prog.
CS7140 Adv Software Engineering
CS7200 Alg. Design and Analysis
CS7210 Network Science
CS7220 Computability/Complexity
CS7230 Information Theory
CS7600 Trust Networks
CS7700 Adv. Database Systems
CS7720 Advanced Data Mining
CS7800 Information Retrieval
CS7810 Meta Represent Languages
CS7820 Semantic Web
CS7830 Machine Learning
CS7840 Soft Computing
CS7850 Privacy Aware Computing
CS7900 Special Topics in CS
CS7910 Advanced Proposal Writing
CS7920 Independent Study in CS
CS7980 Part-time CPT in CS
CS7990 Full-time CPT in CS
CS8900 Special Topics in CS
CS8910 PhD Seminar in CS
CS8920 Independent Study in CS
CS8930 PhD Qualifying Exam
CS8940 Res Research in Comp Sci
CS8950 Dissertation Research
CS8960 PhD Candidacy Exam
CS8980 Continuing Registration
CS8990 Dissertation Defense