Ph.D. DEGREE
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 8960 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

CEG8900 Selected Topics in CEG

CEG8910 PhD Seminar in CEG

CEG8920 Independent Study in CEG

CEG8930 PhD Qualifying Exam

CEG8940 Res Research in Comp Egr

CEG8950 Dissertation Research

CEG8960 PhD Candidacy Exam

CEG8980 Continuing Registration

CEG8990 Dissertation Defense

CEG
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                              CS

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

Graduate Courses 7000 or 8000 level