

CSE Graduate Breadth Requirement

CSE Ph.D. students who commenced CSE graduate studies in Fall, 2010 or thereafter must satisfy the *breadth requirement*. To fulfill the requirement, students must obtain an A or A- in a course from each of the three areas with the extra requirement that if any one area is covered by a course in which the student received an A-, the other two areas must be covered by courses in which the student received an A.

The classification of regularly offered courses into areas is given below:

Area I. Theory and Algorithms

5095	Spec Topics in Comp Sci Engr (by semester, see below)		
5500	Adv Seq & Parallel Algs	6504	Linear Algebraic Queueing Theory
5502	Fundamentals of Automata	6510	Fault-Tolerant Parallel Comput
5514	Computational Geometry	6512	Randomization in Computing
5852	Crypto: Foundations	6514	Computational Topology
5095	Algorithms in Bioinformatics	6800	Computational Genomics
5095	Computational Medical Inform.	5095	Intro to Quantum Computing

Area II. Systems (Networks, Distributed, Architecture, and Databases)

5095	Spec Topics in Comp Sci Engr (by semester, see below)		
5095	Wireless Computing	5701	Advanced Database Topics
5300	Adv. Computer Netwrks & Distrib	5711	Distributed Database Systems
5302	Computer Architecture	5715	Semantic Data Models
5304	High-Performance Computing	5504	Probabilistic Methods
5306	Advanced Operating Systems	6300	Res Topics in Computer Networks
5095	Ubiquitous Computing	5095	Research Topics in Comp Arch
5095	Reliability in Distributed Systems		

Area III. Programming, Software, Applications

5095	Spec Topics in Comp Sci Engr (by semester, see below)		
5095	Res Topics in Biomedical Info.	5703	Advanced Computer Graphics
5095	Biomedical Informatics	5705	Adv. Artificial Intelligence
5095	Adv. Methods in Bio Data Mining	5713	Data Mining
5101	Advanced Software Engineering	5800	Bioinformatics
5102	Advanced Programming Languages	5850	Information & Data Security
5103	Software Performance Engr	5854	Crypto: Primitives/Protocols
5105	Software Reliability Engineering	6705	Natural Language Processing
5107	Distributed Component Systems	5095	Biological/Biom. Data Mining
5095	Computing Issues in Soc NWs		

Classifications for special topics courses taught since Fall, 2010 appear on the following pages.

Special Topics Courses Since Fall 2010 with Classifications

Fall 2010

CSE 5095 Res Topics in Biomedical Info. Area III

Spring 2011

CSE 5095 Biomedical Informatics Area III

CSE 5095 Adv. Methods in Bio Data Mining Area III

Fall 2011

CSE 5095 Intro to Quantum Computing Area I

CSE 5095 Research Topics in Computer Architecture Area II

CSE 5095 Reliability of Distributed Systems Area II

Spring 2012

CSE5095 Biological/Biomedical Data Mining Area III

CSE5095 Algorithms in Bioinformatics Area I

CSE5095 Computational Medical Informatics Area I

CSE5095 Computing Issues in Soc Networkin Area III

CSE5095 Ubiquitous Computing Area II

Fall 2012

CSE5095 Computational Biomedical Informatics Area I

CSE5095 Reliability of Distributed Systems Area II

Spring 2013

CSE5095 String Algorithms and Apps in BioInformatics Area I

CSE5095 Knot Art Analysis and Algorithms Area I

CSE5095 Machine Learning Biomedical Informatics Area I

CSE5095 Computational Genomics Area I

CSE5095 Sensing and Ubiquitous Computing Area II

CSE5095 Compute Architecture/Organization Area II

CSE5095 Biomedical / Biological Data Mining Area III

Fall 2013

CSE 5095 Fault Tolerant Distributed Computing Area I

CSE 5095 Intro to Computational Geometry Area I

CSE 5095 Approximation, Randomized, and Fixed Parameter Algorithms Area I

CSE 5095 Network Embedded Systems Area II

CSE 5095 Hardware Security Area II

CSE 5095 Machine Learning Area III

Spring 2014

CSE 5095 Research Topics in Big Data Analytics Area I

CSE 5095 Research Topics Combinatorial Optimization Area III

Fall 2014

CSE5095 Data Visualization Area I

CSE5095 Network Embedded Systems Area II

CSE5095 Hardware Security Area I

Spring 2015

CSE 5095 Big Bata Analytics Area III

CSE 5095 Computer Organization & Architecture Area II

Fall 2015

CSE 5095 High-Throughput Genomics Data Analytics Area III

CSE 5095 Computational Foundations Systems Biology Area I

CSE 5095 Data Mining in Open Source Software Area II

Spring 2016

CSE 5095 Big Bata Analytics

CSE 5095 Discrete Optimization

CSE 5095 Methods for Verification of Cyberphysical Systems

CSE 5095 Troubleshooting Distributed Systems

CSE 5095 Secure Computation and Storage

Area III

Area I or III

Area I

Area II

Area I

CSE Graduate Breadth Requirement Completion Form

Student: _____ PeopleSoftID: _____

Major Advisor: _____

	Course #	Course Title	Term	Grade
Area I				
Area II				
Area III				

Student signature: _____ Date _____

Graduate Program Director _____ Date: _____

Please submit, with this form:

- An (unofficial) copy of your UConn graduate transcript.
- A copy of the previous pages of this document, where you have circled the relevant courses.