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
- 5502 Fundamentals of Automata
- 5514 Computational Geometry
- 5852 Crypto: Foundations
- 5095 Algorithms in Bioinformatics
- 5095 Computational Medical Inform.

**Area II. Systems (Networks, Distributed, Architecture, and Databases)**
- 5095 Spec Topics in Comp Sci Engr (by semester, see below)
- 5095 Wireless Computing
- 5300 Adv. Computer Networks & Distrib
- 5302 Computer Architecture
- 5304 High-Performance Computing
- 5306 Advanced Operating Systems
- 5095 Ubiquitous Computing
- 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.
- 5095 Biomedical Informatics
- 5095 Adv. Methods in Bio Data Mining
- 5101 Advanced Software Engineering
- 5102 Advanced Programming Languages
- 5103 Software Performance Engr
- 5105 Software Reliability Engineering
- 5107 Distributed Component Systems
- 5095 Computing Issues in Soc NWs

Classifications for special topics courses taught since Fall, 2010 appear on the following page.
# 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
- CSE 5095  **Biological/Biomedical Data Mining**  Area III
- CSE 5095  **Algorithms in Bioinformatics**  Area I
- CSE 5095  **Computational Medical Informatics**  Area I
- CSE 5095  **Computing Issues in Soc Networkin**  Area III
- CSE 5095  **Ubiquitous Computing**  Area II

## Fall 2012
- CSE 5095  **Computational Biomedical Informatics**  Area I
- CSE 5095  **Reliability of Distributed Systems**  Area II

## Spring 2013
- CSE 5095  **String Algorithms and Apps in BioInformatics**  Area I
- CSE 5095  **Knot Art Analysis and Algorithms**  Area I
- CSE 5095  **Machine Learning Biomedical Informatics**  Area I
- CSE 5095  **Computational Genomics**  Area I
- CSE 5095  **Sensing and Ubiquitous Computing**  Area II
- CSE 5095  **Compute Architecture/Organization**  Area II
- CSE 5095  **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
- CSE 5095  **Data Visualization**  Area I
- CSE 5095  **Network Embedded Systems**  Area II
- CSE 5095  **Hardware Security**  Area I

## Spring 2015
- CSE 5095  **Big Data Analytics**  Area III
- CSE 5095  **Computer Organization & Architecture**  Area II

## Fall 2015
- CSE 5095  **High-Throughput Genomics Data Analytics**  ?
- CSE 5095  **Computational Foundations Systems Biology**  Area I
- CSE 5095  **Data Mining in Open Source Software**  Area II
CSE Graduate Breadth Requirement Completion Form

Student: ___________________________________  PeopleSoftID: ________________________
Major Advisor: ________________________________

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<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Term</th>
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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.