January 01, 2004

Semester to Quarter Course Content Equivalencies Table : Graduate School of Computer and Information Science

Northeastern University

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Semester Course Content Equivalencies Handbook
Graduate Schools

Semester to Quarter Course Content Equivalencies Table:
Graduate School of Computer and Information Science

Note: Changes made since initial posting are indicated in <mark>red highlighted</mark> **text.**

About This Section
This section of the handbook lists semester courses together with their quarter course content equivalents. The semester courses are arranged alphabetically according to the two- or three-letter department code found in the course number (for example, "ECN" for "Economics").

How to Use This Section
For a detailed explanation of how to use this and other sections of the handbook, please see "How to Use This Handbook" at www.registrar.neu.edu/how2grad.pdf.

See Your Academic Adviser!
All students must have a complete transition plan made with and approved by an academic adviser. This handbook is designed to be used by students *in conjunction with an academic adviser* to plan completion of degree programs/majors under semesters. The handbook is not intended to replace academic advising but rather to supplement it. Similarly, the equivalency relationships in the handbook are not intended to replace transition plans made with an academic adviser.

Semester Course(s)	Equivalent Quarter Course(s)

CS—Computer Science

Semester Course(s)	Equivalent Quarter Course(s)
CS G100 Data Structures (4 SH, Type A)	**COM 3150** Algorithms & Data Structures (4 QH)
CS G102 Database Management (4 SH, Type A)	**COM 3301** Database Systems (4 QH)
CS G104 Computer Networks (4 SH, Type A)	**COM 3501** Computer Communication Network (4 QH)
CS G106 Lisp Lab (1 SH, Type A)	**COM 3112** <mark>Lisp</mark> Lab (2 QH) ∗
CS G110 Managing Software Development (4 SH, Type A)	**COM 3205** Fundamentals of Software Eng'g (4 QH)
CS G111 Principles of Programming Lang (4 SH, Type A)	**COM 3351** Princ of Programming Languages (4 QH)
CS G112 Computer Systems (4 SH, Type A)	**COM 3336** Operating Systems 1 (4 QH)
CS G113 Algorithms (4 SH, Type A)	**COM 3390** Analysis of Algorithms (4 QH)
CS G120 Fndtns Artificial Intelligence (4 SH, Type A)	**COM 3410** Artfcl Intell Problem Solving (4 QH) *and* **COM 3411** Knowledge Based Systems (4 QH) ∗
CS G130 Intro to Database Systems (4 SH, Type A)	**COM 3315** Principles of Database Systems (4 QH)
CS G131 Impl of Database Mgmt Systems (4 SH, Type A)	**COM 3316** Transaction Processing Systems (4 QH)
CS G140 Computer Graphics (4 SH, Type A)	**COM 3370** Computer Graphics (4 QH)
CS G142 Digital Image Processing (4 SH, Type A)	**COM 3371** Digital Image Processing (4 QH)

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See your academic adviser for transition planning.
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Semester Course(s)	Equivalent Quarter Course(s)
CS G144 Pattern Recogn & Comput Vision (4 SH, Type A)	**COM 3450** Intelligent Pattern Recogniton (4 QH) *and* **COM 3470** Computer Vision (4 QH) ✶
CS G150 Fundamentals - Computer Netwkg (4 SH, Type A)	**COM 3510** Comp Networks: Thry, Model & Anlys (4 QH)
CS G151 Principles of Internetworking (4 SH, Type A)	**COM 3515** Internetworkg Princ Protcls & Apps (4 QH)
CS G170 Computer/Human Interaction (4 SH, Type A)	**COM 3375** Human/Computer Interaction (4 QH)
CS G180 Computer Architecture (4 SH, Type A)	**COM 3200** Computer Architecture (4 QH)
CS G199 Individual Study (2 SH, Type F)	*New course. No quarter equivalent.*
CS G220 Machine Learning (4 SH, Type A)	**COM 3480** Machine Learn & Neural Networks (4 QH) *and* **COM 3411** Knowledge Based Systems (4 QH) ✶
CS G222 Knowledge Based Systems (4 SH, Type A)	**COM 3420** Knowledge Representation (4 QH)
CS G224 Natural Language Processing (4 SH, Type A)	**COM 3440** Natural Language Processing (4 QH)
CS G250 Wireless Network (4 SH, Type A)	**COM 3525** Wireless Network (4 QH)
CS G252 Cryptography & Comm Security (4 SH, Type A)	**COM 3520** Cryptography & Computer Security (4 QH)
CS G254 Network Security (4 SH, Type A)	**COM 3522** Network Security (4 QH)
CS G260 Advanced Software Development (4 SH, Type A)	**COM 3360** Adaptive OO Software Develop (4 QH) *and* **COM 3362** Advanced Object-Oriented Systm (4 QH) ✶
CS G262 Compilers (4 SH, Type A)	**COM 3355** Compiler Design (4 QH)
CS G264 Semantics of Programming Lang (4 SH, Type A)	**COM 3357** Semantics of Programming Langs (4 QH)
CS G270 Methods of Software Developmnt (4 SH, Type A)	**COM 3230** Object Oriented Design (4 QH) *and* **COM 3240** Component-Based Programming (4 QH) ✶ - - - - - - - - - - - - - - - - - *or* - **COM 3230** Object Oriented Design (4 QH) *and* **COM 3360** Adaptive OO Software Develop (4 QH) ✶
CS G272 Analysis of Software Artifacts (4 SH, Type A)	**COM 3230** Object Oriented Design (4 QH)
CS G274 Found/Formal Methd SW Analysis (4 SH, Type A)	**COM 3220** Software Testing, Varifctn & Vald (4 QH)
CS G280 Parallel Computing (4 SH, Type A)	**COM 3620** Parallel Arch & Algorithims (4 QH) *or* **COM 3640** Parallel Algorithms (4 QH) ✶
CS G290 Distributed Algorithms (4 SH, Type A)	**COM 3395** Distributed Algorithms (4 QH)
CS G329 Spec Topics-Artif Intelligence (4 SH, Type A)	*New course. No quarter equivalent.*
CS G339 Spec Topics in Database Mgmt (4 SH, Type A)	*New course. No quarter equivalent.*
CS G349 Spec Topic Graphics/Image Proc (4 SH, Type A)	*New course. No quarter equivalent.*
CS G359 Spec Topics Networks (4 SH, Type A)	*New course. No quarter equivalent.*
CS G369 Spec Topics Programming Lang (4 SH, Type A)	*New course. No quarter equivalent.*
CS G379 Special Topics Software Engr (4 SH, Type A)	*New course. No quarter equivalent.*
CS G389 Spec Topics Computer Systems (4 SH, Type A)	*New course. No quarter equivalent.*
CS G399 Spec Topic Theory of Comp Sci (4 SH, Type A)	*New course. No quarter equivalent.*
CS G664 Readings/Research (4 SH, Type F)	**COM 3800** Readings in Computer Science (4 QH)
CS G674 Master's Project (4 SH, Type F)	**COM 3830** Computer Science Master's Proj (4 QH)
CS G684 Thesis (4 SH, Type F)	**COM 3820** Master's Thesis (4 QH)
CS G699 Thesis Continuation (0 SH, Type F)	**COM 3821** Master's Continuation (4 QH) ✶
CS G711 Int Principle Programming Lang (4 SH, Type A)	**COM 3352** Intensive Princ Program Lang (4 QH)
CS G712 Intensive Computer Systems (4 SH, Type A)	**COM 3338** Intensive Operating Systems (4 QH) *or* **COM 3337** Distributed Operating Systems (4 QH)
CS G713 Advanced Algorithms (4 SH, Type A)	**COM 3392** Intensive Analysis Algorithms (4 QH)
CS G714 Theory of Computation (4 SH, Type A)	**COM 3350** Theory of Computation (4 QH) *and* **COM 3710** Automata & Formal Languages (4 QH) ✶
CS G719 Research Overview of Comp Sci (1 SH, Type D)	**COM 3841** PhD Seminar (1 QH)
CS G720 Seminar-Artificl Intelligence (2 SH, Type D)	*New course. No quarter equivalent.*
CS G730 Seminar in Database Systems (2 SH, Type D)	*New course. No quarter equivalent.*
CS G740 Seminar-Graphics/Image Process (2 SH, Type D)	*New course. No quarter equivalent.*
CS G750 Seminar in Computer Networks (2 SH, Type D)	*New course. No quarter equivalent.*
CS G752 Seminar in Computer Security (2 SH, Type D)	*New course. No quarter equivalent.*
CS G760 Seminar in Programming Lang (2 SH, Type D)	*New course. No quarter equivalent.*
CS G762 Seminar in Software Developmnt (2 SH, Type D)	*New course. No quarter equivalent.*
CS G770 Seminar in Software Engineer (2 SH, Type D)	*New course. No quarter equivalent.*
CS G780 Seminar in Computer Systems (2 SH, Type D)	*New course. No quarter equivalent.*
CS G790 Seminar-Theor Computer Science (2 SH, Type D)	*New course. No quarter equivalent.*
CS G864 Readings/Research (4 SH, Type F)	**COM 3850** Advanced Readings in Comp Sci (4 QH)
CS G894 Dissertation (4 SH, Type A)	**COM 3890** PhD Dissertation (0 QH)
CS G899 Dissertation Continuation (0 SH, Type A)	**COM 3891** PhD Continuation (0 QH)

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