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 red highlighted 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.

<table>
<thead>
<tr>
<th>Semester Course(s)</th>
<th>Equivalent Quarter Course(s)</th>
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<tbody>
<tr>
<td>CS G100 Data Structures (4 SH, Type A)</td>
<td>COM 3150 Algorithms &amp; Data Structures (4 QH)</td>
</tr>
<tr>
<td>CS G102 Database Management (4 SH, Type A)</td>
<td>COM 3301 Database Systems (4 QH)</td>
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<tr>
<td>CS G104 Computer Networks (4 SH, Type A)</td>
<td>COM 3501 Computer Communication Network (4 QH)</td>
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<tr>
<td>CS G106 Lisp Lab (1 SH, Type A)</td>
<td>COM 3112 Lisp Lab (2 QH) *</td>
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<tr>
<td>CS G110 Managing Software Development (4 SH, Type A)</td>
<td>COM 3205 Fundamentals of Software Eng’g (4 QH)</td>
</tr>
<tr>
<td>CS G111 Principles of Programming Lang (4 SH, Type A)</td>
<td>COM 3351 Princ of Programming Languages (4 QH)</td>
</tr>
<tr>
<td>CS G112 Computer Systems (4 SH, Type A)</td>
<td>COM 3336 Operating Systems 1 (4 QH)</td>
</tr>
<tr>
<td>CS G113 Algorithms (4 SH, Type A)</td>
<td>COM 3390 Analysis of Algorithms (4 QH)</td>
</tr>
<tr>
<td>CS G120 Fndtns Artificial Intelligence (4 SH, Type A)</td>
<td>COM 3410 Artif Intell Problem Solving (4 QH) and COM 3411 Knowledge Based Systems (4 QH) *</td>
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<tr>
<td>CS G130 Intro to Database Systems (4 SH, Type A)</td>
<td>COM 3315 Principles of Database Systems (4 QH)</td>
</tr>
<tr>
<td>CS G131 Impl of Database Mgmt Systems (4 SH, Type A)</td>
<td>COM 3316 Transaction Processing Systems (4 QH)</td>
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<td>CS G140 Computer Graphics (4 SH, Type A)</td>
<td>COM 3370 Computer Graphics (4 QH)</td>
</tr>
<tr>
<td>CS G142 Digital Image Processing (4 SH, Type A)</td>
<td>COM 3371 Digital Image Processing (4 QH)</td>
</tr>
</tbody>
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Course types:  A = Lecture (only)  B = Lab (only)  C = Lecture with lab or coreq  D = Seminar  E = Studio  F = Individualized instruction  G = Off-campus  H = Off-campus with coreq lecture  I = Case/lecture

See your academic adviser for transition planning.
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<th>Semester Course(s)</th>
<th>Equivalent Quarter Course(s)</th>
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| CS G144 Pattern Recog & Comput Vision (4 SH, Type A) | COM 3450 Intelligent Pattern Recognition (4 QH)  
and COM 3470 Computer Vision (4 QH) * |
| CS G150 Fundamentals - Computer Networking (4 SH, Type A) | COM 3510 Comp Networks: Thy, Model & ANlys (4 QH)  
and COM 3515 Internet Protocols & Apps (4 QH) |
| CS G151 Principles of Internetworking (4 SH, Type A) | COM 3375 Human/Computer Interaction (4 QH)  
and COM 3200 Computer Architecture (4 QH) |
| CS G170 Computer/Human Interaction (4 SH, Type A) | New course. No quarter equivalent. |
| CS G180 Computer Architecture (4 SH, Type A) |  
and COM 3480 Machine Learning & Neural Networks (4 QH)  
and COM 3411 Knowledge Based Systems (4 QH) * |
| CS G199 Individual Study (2 SH, Type F) | COM 3555 Compiler Design (4 QH)  
and COM 3357 Semantics of Programming Languages (4 QH) |
| CS G220 Machine Learning (4 SH, Type A) |  
and COM 3355 Semantics of Programming Languages (4 QH) |
| CS G222 Knowledge Based Systems (4 SH, Type A) | COM 3230 Knowledge Representation (4 QH)  
and COM 3230 Object-Oriented Design (4 QH)  
and COM 3360 Adaptive OO Software Develop (4 QH) |
| CS G224 Natural Language Processing (4 SH, Type A) | COM 3360 Adaptive OO Software Develop (4 QH)  
and COM 3360 Advanced Object-Oriented System (4 QH) * |
| CS G250 Wireless Networking (4 SH, Type A) | COM 3360 Adaptive OO Software Develop (4 QH)  
and COM 3360 Advanced Object-Oriented System (4 QH) * |
| CS G252 Cryptography & Comp Security (4 SH, Type A) | COM 3230 Object-Oriented Design (4 QH)  
and COM 3360 Adaptive OO Software Develop (4 QH) |
| CS G254 Network Security (4 SH, Type A) |  
and COM 3360 Adaptive Object-Oriented System (4 QH) * |
| CS G260 Advanced Software Development (4 SH, Type A) | COM 3290 Object-Oriented Design (4 QH)  
and COM 3360 Adaptive OO Software Develop (4 QH) * |
| CS G262 Compilers (4 SH, Type A) | COM 3620 Parallel Algorithms (4 QH)  
and COM 3620 Parallel Algorithms (4 QH) * |
| CS G264 Semantics of Programming Lang (4 SH, Type A) | COM 3220 Software Testing, Verification & Validation (4 QH)  
and COM 3220 Software Testing, Verification & Validation (4 QH) |
| CS G270 Methods of Software Development (4 SH, Type A) | COM 3220 Software Testing, Verification & Validation (4 QH)  
and COM 3220 Software Testing, Verification & Validation (4 QH) |
| CS G272 Analysis of Software Artifacts (4 SH, Type A) |  
and COM 3220 Software Testing, Verification & Validation (4 QH)  
and COM 3220 Software Testing, Verification & Validation (4 QH) |
| CS G274 Found/Formal Meth SW Analysis (4 SH, Type A) | COM 3220 Software Testing, Verification & Validation (4 QH)  
and COM 3220 Software Testing, Verification & Validation (4 QH) |
| CS G280 Parallel Computing (4 SH, Type A) | COM 3399 Theory of Computing (4 SH, Type A)  
and COM 3399 Theory of Computing (4 SH, Type A) |
| CS G290 Distributed Algorithms (4 SH, Type A) | COM 3399 Theory of Computing (4 SH, Type A)  
and COM 3399 Theory of Computing (4 SH, Type A) |
| CS G329 Spec Topics-Artif Intelligence (4 SH, Type A) | COM 3399 Theory of Computing (4 SH, Type A)  
and COM 3399 Theory of Computing (4 SH, Type A) |
| CS G339 Spec Topics in Database Management (4 SH, Type A) | COM 3399 Theory of Computing (4 SH, Type A)  
and COM 3399 Theory of Computing (4 SH, Type A) |
| CS G349 Spec Topics Graphics/Image Proc (4 SH, Type A) | COM 3399 Theory of Computing (4 SH, Type A)  
and COM 3399 Theory of Computing (4 SH, Type A) |
| CS G359 Spec Topics Networks (4 SH, Type A) | COM 3399 Theory of Computing (4 SH, Type A)  
and COM 3399 Theory of Computing (4 SH, Type A) |
| CS G369 Spec Topics Programming Lang (4 SH, Type A) | COM 3399 Theory of Computing (4 SH, Type A)  
and COM 3399 Theory of Computing (4 SH, Type A) |
| CS G379 Spec Topics Software Engineering (4 SH, Type A) | COM 3399 Theory of Computing (4 SH, Type A)  
and COM 3399 Theory of Computing (4 SH, Type A) |
| CS G389 Spec Topics Computer Systems (4 SH, Type A) | COM 3399 Theory of Computing (4 SH, Type A)  
and COM 3399 Theory of Computing (4 SH, Type A) |
| CS G399 Spec Topic Theory of Comp Sci (4 SH, Type A) | COM 3399 Theory of Computing (4 SH, Type A)  
and COM 3399 Theory of Computing (4 SH, Type A) |
| CS G664 Readings/Research (4 SH, Type F) | COM 3800 Readings in Computer Science (4 QH)  
and COM 3800 Readings in Computer Science (4 QH) |
| CS G674 Master's Project (4 SH, Type F) | COM 3830 Computer Science Master's Project (4 QH)  
and COM 3830 Computer Science Master's Project (4 QH) |
| CS G684 Thesis (4 SH, Type F) | COM 3820 Master's Thesis (4 QH)  
and COM 3820 Master's Thesis (4 QH) |
| CS G699 Thesis Continuation (0 SH, Type F) | COM 3821 Master's Continuation (4 QH)  
and COM 3821 Master's Continuation (4 QH) |
| CS G711 Int Principle Programming Lang (4 SH, Type A) | COM 3352 Intensive Principles of Programming Languages (4 QH)  
and COM 3352 Intensive Principles of Programming Languages (4 QH) |
and COM 3338 Intensive Operating Systems (4 QH) |
| CS G713 Advanced Algorithms (4 SH, Type A) | COM 3338 Intensive Operating Systems (4 QH)  
and COM 3338 Intensive Operating Systems (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)  
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)  
and COM 3841 PhD Seminar (1 QH) |
| CS G720 Seminar-Artificial Intelligence (2 SH, Type D) | COM 3841 PhD Seminar (1 QH)  
and COM 3841 PhD Seminar (1 QH) |
| CS G730 Seminar in Database Systems (2 SH, Type D) | New course. No quarter equivalent.  
and New course. No quarter equivalent. |
| CS G740 Seminar-Graphics/Image Processing (2 SH, Type D) | New course. No quarter equivalent.  
and New course. No quarter equivalent. |
| CS G750 Seminar in Computer Networks (2 SH, Type D) | New course. No quarter equivalent.  
and New course. No quarter equivalent. |
| CS G752 Seminar in Computer Security (2 SH, Type D) | New course. No quarter equivalent.  
and New course. No quarter equivalent. |
| CS G760 Seminar in Programming Languages (2 SH, Type D) | New course. No quarter equivalent.  
and New course. No quarter equivalent. |
| CS G762 Seminar in Software Development (2 SH, Type D) | New course. No quarter equivalent.  
and New course. No quarter equivalent. |
| CS G770 Seminar in Software Engineering (2 SH, Type D) | New course. No quarter equivalent.  
and New course. No quarter equivalent. |
| CS G780 Seminar in Computer Systems (2 SH, Type D) | New course. No quarter equivalent.  
and New course. No quarter equivalent. |
| CS G790 Seminar-Theoretic Computer Science (2 SH, Type D) | New course. No quarter equivalent.  
and New course. No quarter equivalent. |
| CS G864 Readings/Research (4 SH, Type F) | COM 3850 Advanced Readings in Computer Science (4 QH)  
and COM 3850 Advanced Readings in Computer Science (4 QH) |
| CS G894 Dissertation (4 SH, Type A) | COM 3890 PhD Dissertation (0 QH)  
and COM 3890 PhD Dissertation (0 QH) |
| CS G899 Dissertation Continuation (0 SH, Type A) | COM 3891 PhD Continuation (0 QH)  
and COM 3891 PhD Continuation (0 QH) |

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