

Semester Course Content Equivalencies Handbook

Graduate Schools

Semester to Quarter Course Content Equivalencies Table: Graduate School of Engineering

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.

Semester Course(s)	Equivalent Quarter Course(s)
CHE—Chemical Engineering	
CHE G201 Fluid Mechanics (4 SH, Type A)	CHE 3560 Fluid Mechanics (4 QH)
CHE G202 Chemical Process Heat Transfer (4 SH, Type A)	CHE 3350 Chemical Process Heat Transfer (4 QH)
CHE G203 Separations Process (4 SH, Type A)	CHE 3320 Separation Processes (4 QH)
CHE G204 Heterogeneous Catalysis (4 SH, Type A)	CHE 3340 Heterogeneous Catalysis (4 QH)
CHE G205 Numeric Techniques in Chem Eng (4 SH, Type A)	CHE 3410 Numerical Techniques Chem Eng'g (4 QH)
CHE G210 Advanced Chem Eng Calculations (4 SH, Type A)	CHE 3400 Advanced Chem Eng'g Calculations (4 QH)
CHE G220 Electronic Materials, Thin Films, & Nanostructures (4 SH, Type A)	<i>New course. No quarter equivalent.</i>
CHE G221 Thin Film Technology (4 SH, Type A)	<i>New course. No quarter equivalent.</i>
CHE G222 Principles of Membrane Process (4 SH, Type A)	<i>New course. No quarter equivalent.</i>
CHE G223 Biochemical Engineering (4 SH, Type A)	<i>New course. No quarter equivalent.</i>
CHE G230 Process Safety & Risk Analysis (4 SH, Type A)	CHE 3360 Process Safety & Risk Analysis (4 QH)
CHE G231 Chem Process Dynamic & Control (4 SH, Type A)	CHE 3330 Chemical Process Control (4 QH)
CHE G232 Proc Pollution Prevent&Control (4 SH, Type A)	<i>New course. No quarter equivalent.</i>

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CHE G240 Polymer Science (4 SH, Type A)	CHE 3600 Polymer Science (4 QH) ----- CHE 3601 Polymer Science 1 (2 QH) and CHE 3602 Polymer Science 2 (2 QH)
CHE G241 Polymerization & Poly Process (4 SH, Type A)	CHE 3620 Principals of Polymerization (4 QH)
CHE G250 Adv Mgt Tech in Chem Industry (4 SH, Type A)	CHE 3530 Adv Mgt Tech in Chem Industry (4 QH)
CHE G260 Special Topics in Chem Engr (4 SH, Type A)	CHE 3670 Special Topics in Chem Eng'g (4 QH)
CHE G261 Special Topics in Chem Engr (2 SH, Type A)	CHE 3701 Special Topics in Chem Eng'g 1 (2 QH) or CHE 3702 Special Topics in Chem Eng'g 2 (2 QH)
CHE G320 Chemical Engineering Math (4 SH, Type A)	CHE 3300 Chemical Engineering Math (4 QH)
CHE G330 Chem Engineering Thermodynamic (4 SH, Type A)	CHE 3310 Chem Eng'g Thermodynamics 1 (4 QH)
CHE G340 Chemical Engineering Kinetics (4 SH, Type A)	CHE 3671 Kinetics of Chemical Processes (4 QH)
CHE G350 Transport Phenomena (4 SH, Type A)	CHE 3500 Transport Phenomena (4 QH)
CHE G390 Seminar (0 SH, Type D)	CHE 3691 Seminar (2 QH) * ----- CHE 3692 Seminar Continuation (0 QH)
CHE G401 Independent Study (1 SH, Type F)	<i>New course. No quarter equivalent.</i>
CHE G402 Independent Study (2 SH, Type F)	<i>New course. No quarter equivalent.</i>
CHE G403 Independent Study (3 SH, Type F)	<i>New course. No quarter equivalent.</i>
CHE G404 Independent Study (4 SH, Type F)	<i>New course. No quarter equivalent.</i>
CHE G682 Thesis (2 SH, Type F)	CHE 3862 Master's Thesis (2 QH)
CHE G684 Thesis (4 SH, Type F)	CHE 3861 Master's Thesis (4 QH) ----- CHE 3860 Master's Thesis (10 QH) *
CHE G699 Thesis Continuation (0 SH, Type F)	CHE 3798 Master's Continuation (0 QH)
CHE G890 Dissertation (0 SH, Type F)	CHE 3880 PhD Thesis (0 QH)
CHE G899 Dissertation Continuation (0 SH, Type F)	CHE 3799 PhD Continuation (0 QH)

CIV—Civil Engineering

CIV G220 Construction Management (4 SH, Type A)	CIV 3231 Construction Management 1(2 QH) and CIV 3232 Construction Management 2 (2 QH) ----- CIV3201 Construction Management (4 QH)
CIV G221 Construct Proj Control and Org (2 SH, Type A)	CIV 3252 Construction Proj Cntrl & Organ (2 QH)
CIV G230 Legal Aspects of Civil Engr (4 SH, Type A)	CIV 3202 Legal Aspects of Civil Eng'g (4 QH) ----- CIV 3241 Legal Aspects of Civil Eng'g 1 (2 QH) and CIV 3242 Legal Aspects of Civil Eng'g 2 (2 QH)
CIV G231 Design/Build Proj Delivery Sys (2 SH, Type A)	<i>New course. No quarter equivalent.</i>
CIV G240 Construction Equip & Modeling (4 SH, Type A)	CIV 3203 Construction Equip & Modeling (4 QH) or CIV 3237 Construction Methods & Equip 1 (2 QH)
CIV G250 Environmental Chemistry (4 SH, Type A)	CIV 3310 Environmental Chemistry 1 (2 QH) and CIV 3311 Environmental Chemistry 2 (2 QH) and CIV 3325 Environmental Chemistry Lab (2 QH) * ----- CIV 3312 Environmental Chemistry (4 QH) and CIV 3325 Environmental Chemistry Lab (2 QH) *
CIV G251 Environmental Biol Process (4 SH, Type A)	CIV 3322 Environmental Biological Proc 1 (2 QH) and CIV 3323 Environmental Biological Proc 2 (2 QH) and CIV 3326 Biological Processes Lab (2 QH) * ----- CIV 3321 Environmental Biological Proc (4 QH) and CIV 3326 Biological Processes Lab (2 QH) *
CIV G252 Water & Wastewater Treatmt (4 SH, Type A)	CIV 3318 Water & Wastewater Treatment (4 QH) ----- CIV 3315 Water & Wastewater Treatment 1 (2 QH) and CIV 3316 Water & Wastewater Treatment 2 (2 QH)
CIV G253 Adv Muni & Ind WW Treatment (4 SH, Type A)	CIV 3304 Adv Wastewater Treatmt & Ind Pro (4 QH) or CIV 3341 Industrial Waste Disposal (2 QH)
CIV G260 Hydrology (4 SH, Type C)	<i>New course. No quarter equivalent.</i>
CIV G261 Surface Water Hydr & Qual Mod (4 SH, Type A)	CIV 3301 Surface Water Hydrology & Contmn (4 QH) and CIV 3355 Surface Water Hydrology (2 QH) *

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CIV G262 Watershed Management (4 SH, Type A)	CIV 3340 Watershed Management (4 QH)
CIV G263 Grndwater Hydr & Qual Modeling (4 SH, Type A)	CIV 3302 Groundwater Hydrology & Contmnt (4 QH) ----- or CIV 3358 Groundwater Hydrology (2 QH) and CIV 3360 Groundwater Modeling (2 QH)
CIV G270 Environmental Protection&Mgmt (4 SH, Type A)	CIV 3307 Environmental Protection & Mgmt (4 QH)
CIV G271 Solid & Hazardous Waste Mgmt (4 SH, Type A)	CIV 3305 Solid & Hazardous Waste Mgmt (4 QH) ----- or CIV 3324 Hazardous Waste Management (4 QH) and CIV 3328 Integrated Solid Waste Management (4 QH) * ----- or CIV 3384 Solid Waste Management (2 QH) and CIV 3386 Hazardous Waste Remediation (2 QH)
CIV G272 Air Quality Management (4 SH, Type A)	CIV 3306 Air Pollution (4 QH) ----- or CIV 3370 Air Pollution Engineering (2 QH) and CIV 3374 Air Pollution Science (2 QH)
CIV G301 Advanced Soil Mechanics (4 SH, Type A)	CIV 3401 Advanced Soil Mechanics (4 QH) ----- or CIV 3410 Soil Mechanics 1 (2 QH) and CIV 3411 Soil Mechanics 2 (2 QH)
CIV G302 Advance Foundation Engineering (4 SH, Type A)	CIV 3402 Adv Foundation Engineering (4 QH)
CIV G303 Geotechnical Instrumentation (4 SH, Type A)	<i>New course. No quarter equivalent.</i>
CIV G311 Soil and Foundation Dynamics (4 SH, Type A)	CIV 3405 Soil Dynamics (4 QH)
CIV G312 Earthquake Engineering (4 SH, Type A)	CIV 3406 Earthquake Engineering (4 QH)
CIV G321 Geoenvironmental Engineering (4 SH, Type A)	CIV 3408 Geoenvironmental Engineering (4 QH)
CIV G322 Engineering Geology (4 SH, Type A)	CIV 3407 Engineering Geology (4 QH)
CIV G330 Advanced Structural Analysis (4 SH, Type A)	CIV 3501 Advanced Structural Analysis (4 QH) ----- or CIV 3510 Structural Mechanics (2 QH) and CIV 3536 Advanced Structural Analysis (2 QH)
CIV G331 Structural Dynamics (4 SH, Type A)	CIV 3503 Structural Dynamics (4 QH)
CIV G340 Seismic Analysis and Design (4 SH, Type A)	CIV 3504 Seismic Analysis (4 QH)
CIV G341 Structural Reliability (4 SH, Type A)	CIV 3513 Structural Reliability (4 QH)
CIV G342 System Identification (4 SH, Type A)	<i>New course. No quarter equivalent.</i>
CIV G350 Behavior of Concrete Structure (4 SH, Type A)	CIV 3505 Behavior Reinforced Conc Strct (4 QH)
CIV G351 Behavior of Steel Structures (4 SH, Type A)	CIV 3506 Behavior of Steel Structures (4 QH)
CIV G352 Bridge Design (2 SH, Type A)	CIV 3686 Bridge Design (4 QH) *
CIV G353 Prestressed Concrete (2 SH, Type A)	CIV 3507 Design Prestressed Concrct Strc (4 QH) *
CIV G373 Trans Planning and Engineering (4 SH, Type A)	CIV 3642 Transportation Planning (4 QH)
CIV G376 Traffic Eng and Control (4 SH, Type A)	CIV 3607 Traffic Engineering (4 QH)
CIV G380 Transportation Performance Models (4 SH, Type A)	CIV 3603 Transportation Supply Models (4 QH)
CIV G381 Transportation Demand Models (4 SH, Type A)	CIV 3602 Transportation Demand Models (4 QH)
CIV G385 Public Transportation (4 SH, Type A)	CIV 3612 Public Transportation (4 QH)
CIV G388 Special Topics in Civil Engr (2 SH, Type A)	CIV 3830 Special Topics in Civil Eng'g (2 QH)
CIV G389 Special Topics in Civil Engr (4 SH, Type A)	CIV 3831 Special Topics in Civil Eng'g (4 QH)
CIV G390 Special Topics in CnstrMgtEngr (2 SH, Type A)	<i>New course. No quarter equivalent.</i>
CIV G391 Special Topics in CnstrMgtEngr (4 SH, Type A)	<i>New course. No quarter equivalent.</i>
CIV G392 Special Topics in Envir Engr (2 SH, Type A)	<i>New course. No quarter equivalent.</i>
CIV G393 Special Topics in Envir Engr (4 SH, Type A)	<i>New course. No quarter equivalent.</i>
CIV G394 Special Topics in Geo Engr (2 SH, Type A)	<i>New course. No quarter equivalent.</i>
CIV G395 Special Topics in Geo Engr (4 SH, Type A)	<i>New course. No quarter equivalent.</i>
CIV G396 Special Topics in Strct Engr (2 SH, Type A)	<i>New course. No quarter equivalent.</i>
CIV G397 Special Topics in Strct Engr (4 SH, Type A)	<i>New course. No quarter equivalent.</i>
CIV G398 Special Topics in Trans Engr (2 SH, Type A)	<i>New course. No quarter equivalent.</i>
CIV G399 Special Topics in Trans Engr (4 SH, Type A)	<i>New course. No quarter equivalent.</i>
CIV G401 Independent Study (1 SH, Type F)	<i>New course. No quarter equivalent.</i>
CIV G402 Independent Study (2 SH, Type F)	CIV 3835 Independent Study/Project (2 QH)
CIV G403 Independent Study (3 SH, Type F)	<i>New course. No quarter equivalent.</i>
CIV G404 Independent Study (4 SH, Type F)	CIV 3836 Independent Study/Project (4 QH)

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Semester Course(s)	Equivalent Quarter Course(s)
CIV G672 Master's Report (2 SH, Type F)	CIV 3851 Master's Report (2 QH)
CIV G674 Master's Report (4 SH, Type F)	CIV 3850 Master's Report (4 QH)
CIV G682 Thesis (2 SH, Type F)	CIV 3862 Master's Thesis (2 QH)
CIV G684 Thesis (4 SH, Type F)	CIV 3861 Master's Thesis (4 QH)
CIV G688 Thesis (8 SH, Type F)	CIV 3860 Master's Thesis (8 QH)
CIV G699 Thesis Continuation (0 SH, Type F)	CIV 3798 Master's Continuation (0 QH)
CIV G890 Dissertation (0 SH, Type F)	CIV 3880 PhD Thesis (0 QH)
CIV G899 Dissertation Continuation (0 SH, Type F)	CIV 3799 PhD Continuation (0 QH)

CSE—Computer Systems Engineering

CSE G200 Concepts of ObjectOriented Des (4 SH, Type A)	MIM 3140 Concepts Object-Oriented Design (4 QH)
CSE G210 Component Software Development (4 SH, Type A)	MIM 3141 Component Software Development (4 QH)
CSE G220 Enterprise Software Dev (4 SH, Type A)	MIM 3143 Enterprise Software Development (4 QH)
CSE G230 Software Engineering (4 SH, Type A)	MIM 3124 Software Engineering (4 QH)
CSE G240 CAD and Manufacturing (4 SH, Type A)	MIM 3350 Computer Aided Graphics & Design (4 QH)
CSE G250 Robot Mechanics and Control (4 SH, Type A)	MIM 3325 Robot Mechanics & Control (4 QH)
CSE G260 Manufacturing Methods & Tech (4 SH, Type A)	MIM 3300 Manufacturing, Design & Computers (4 QH) and MIM 3375 Computer Aided Manufacturing (4 QH) *
CSE G270 Building Virtual Environments (4 SH, Type A)	MIM 3142 Building Virtual Environments (4 QH)
CSE G280 Human-Computer Interaction (4 SH, Type A)	MIM 3030 Human Computer Interaction (4 QH)
CSE G374 Special Topics in CSE (4 SH, Type A)	MIM 3915 Special Topics (4 QH)
CSE G401 Independent Study (1 SH, Type F)	<i>New course. No quarter equivalent.</i>
CSE G402 Independent Study (2 SH, Type F)	<i>New course. No quarter equivalent.</i>
CSE G403 Independent Study (3 SH, Type F)	<i>New course. No quarter equivalent.</i>
CSE G404 Independent Study (4 SH, Type F)	<i>New course. No quarter equivalent.</i>
CSE G674 Software Engineering Project (4 SH, Type A)	MIM 3152 Software Engineering Project 1 (4 QH) and MIM 3153 Software Eng'g Project 2 (4 QH) *
CSE G684 Thesis (4 SH, Type F)	<i>New course. No quarter equivalent.</i>
CSE G688 Thesis (8 SH, Type F)	<i>New course. No quarter equivalent.</i>
CSE G699 Thesis Continuation (0 SH, Type F)	<i>New course. No quarter equivalent.</i>

ECE—Electrical and Computer Engineering

ECE G100 Power Electronics (4 SH, Type A)	ECE 3433 Power Electronics (4 QH)
ECE G101 Power Systems Analysis 1 (4 SH, Type A)	<i>New course. No quarter equivalent.</i>
ECE G102 Electric Drives (4 SH, Type A)	ECE 3304 Motion Control with DC Drives (2 QH) and ECE 3307 Motion Control with AC Drives (2 QH)
ECE G103 Classical Control Systems (4 SH, Type A)	ECE 3381 Classical Control Theory (4 QH)
ECE G104 Electrical Machines (4 SH, Type A)	ECE 3310 Electrical Machinery Theory (4 QH)
ECE G105 Optics for Engineers (4 SH, Type A)	ECE 3582 Optics for Engineers (4 QH)
ECE G110 Digital Signal Processing (4 SH, Type A)	ECE 3321 Digital Signal Processing (4 QH)
ECE G200 Linear Systems Analysis (4 SH, Type A)	ECE 3221 Linear Systems Analysis (4 QH)
ECE G201 Solid State Devices (4 SH, Type A)	ECE 3384 Solid State Devices 1 (4 QH)
ECE G202 Electromagnetic Theory 1 (4 SH, Type A)	ECE 3341 Electromagnetic Theory 1 (4 QH) ----- or ----- ECE 3342 Electromagnetic Theory 1-A (2 QH) and ECE 3343 Electromagnetic Theory 1-B (2 QH)
ECE G203 Complex Variable & Diff Equat (4 SH, Type A)	ECE 3231 Mathematical Methods in EE 2 (4 QH)
ECE G204 Appl Prob & Stochasitic Proc (4 SH, Type A)	ECE 3241 Applied Prob & Stochastic Proc (4 QH) ----- or ----- ECE 3242 Applied Prob & Stochastic Proc A (2 QH) and ECE 3243 Applied Prob & Stochastic Proc B (2 QH)
ECE G205 Fundamentals of Computer Engr (4 SH, Type A)	ECE 3652 Fundamentals of Computer Eng'g (4 QH)
ECE G210 Digital Control Systems (4 SH, Type A)	ECE 3540 Digital Control Systems (4 QH)
ECE G211 Nonlinear Control (4 SH, Type A)	ECE 3526 Nonlinear Systems (4 QH)
ECE G212 Multivariable Control Systems (4 SH, Type A)	ECE 3549 Multivariable Control Systems (4 QH)
ECE G213 System ID & Adaptive Control (4 SH, Type A)	ECE 3552 System ID & Adaptive Control (4 QH)
ECE G214 Optimal and Robust Control (4 SH, Type A)	ECE 3371 Linear Optimal Control Theory (4 QH)
ECE G220 Power System Analysis 2 (4 SH, Type A)	<i>New course. No quarter equivalent.</i>
ECE G221 Power System Ops and Control (4 SH, Type A)	ECE 3432 Power System Operation & Control (4 QH)

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ECE G236 Special Topics in Control (4 SH, Type A)	<i>New course. No quarter equivalent.</i>
ECE G237 Special Topics in Power Elec (4 SH, Type A)	<i>New course. No quarter equivalent.</i>
ECE G238 Special Topics in Elec Drives (4 SH, Type A)	<i>New course. No quarter equivalent.</i>
ECE G239 Special Topics in Pwr Systems (4 SH, Type A)	<i>New course. No quarter equivalent.</i>
ECE G240 Analog Integ Circuit Design (4 SH, Type A)	ECE 3331 Analog Integrated Circuits (4 QH)
ECE G241 Advanced Solid State Devices (4 SH, Type A)	ECE 3388 Solid State Devices 2 (4 QH) or ECE 3641 High Speed & High Freq Ss Device (4 QH)
ECE G242 Integ Circ & Analog Signal Pro (4 SH, Type A)	ECE 3619 Network Synthesis (4 QH)
ECE G243 Integrat Circuit Fabrication (4 SH, Type A)	ECE 3626 Integrated Circts Fabrictn 1 (4 QH)
ECE G244 Intro to MEMS (4 SH, Type A)	ECE 3642 Microelectmech Systems (MEMS) (4 QH)
ECE G245 Micro CrcDes for Wireless Comm (4 SH, Type A)	ECE 3613 Solid State Microwave Circuits (4 QH) and ECE 3644 Passive Microwave Circuits (4 QH) *
ECE G246 Dsn & Anlys of Dgtl Integ Crc (4 SH, Type A)	ECE 3632 Dsgn & Anlys Digtl Interg Crc (4 QH)
ECE G269 Top: Elec, Semicond, Microfab (4 SH, Type A)	<i>New course. No quarter equivalent.</i>
ECE G270 Electromagnetic Theory 2 (4 SH, Type A)	ECE 3344 Electromagnetic Theory 2 (4 QH)
ECE G271 Comp Mthds in Electromagnetics (4 SH, Type A)	ECE 3347 Cmptatnl Methods in Electromag (4 QH)
ECE G272 Radar System (4 SH, Type A)	ECE 3563 Radar Systems 1 (4 QH)
ECE G273 Remote Sensing (4 SH, Type A)	ECE 3598 Remote Sensing (4 QH)
ECE G274 Propagation in Artficial Struct (4 SH, Type A)	ECE 3603 Propgtn in Artificial Structures (4 QH)
ECE G275 Antennas and Radiation (4 SH, Type A)	ECE 3635 Antennas & Radiation (4 QH)
ECE G276 Microwave Prop of Materials (4 SH, Type A)	ECE 3600 Microwave Properties of Matls (4 QH)
ECE G277 Microwave Electron Devices (4 SH, Type A)	ECE 3638 Microwave Electron Devices (4 QH)
ECE G280 Fourier and Binary Optics (4 SH, Type A)	ECE 3571 Fourier and Binary Optics (4 QH)
ECE G281 Fourier Optics (4 SH, Type A)	ECE 3574 Fourier Optics 2 (4 QH)
ECE G282 Lasers (4 SH, Type A)	ECE 3575 Lasers (4 QH)
ECE G284 Optical Properties of Matter (4 SH, Type A)	ECE 3597 Optical Properties of Matter (4 QH)
ECE G285 Optoelectronics & Fiber Optics (2 SH, Type A)	ECE 3579 Optoelectronics & Fiber Optics (2 QH)
ECE G286 IR Imaging (2 SH, Type A)	ECE 3599 IR Imaging (2 QH)
ECE G287 Optical Detection (4 SH, Type A)	ECE 3586 Optical Detection (4 QH)
ECE G290 Plasma Engineering (4 SH, Type A)	ECE 3593 Plasma Engineering (4 QH)
ECE G291 Plasma Theory (4 SH, Type A)	ECE 3594 Plasma Theory (4 QH)
ECE G292 Plasma Processing Seminar (4 SH, Type A)	ECE 3629 Integrated Circts Fabrictn Pro (4 QH)
ECE G309 Special Top: Emag, Plasma, Opt (4 SH, Type A)	<i>New course. No quarter equivalent.</i>
ECE G310 Modern Signal Processing (4 SH, Type A)	<i>New course. No quarter equivalent.</i>
ECE G311 2D Signal and Image Processing (4 SH, Type A)	<i>New course. No quarter equivalent.</i>
ECE G312 Stat & Adaptive Sig Processing (4 SH, Type A)	ECE 3497 Statistical Signal Processing (4 QH) or ECE 3531 Adaptive Signal Processing (4 QH)
ECE G313 Pattern Recognition (4 SH, Type A)	ECE 3555 Static Patterns Rec and Neural Network (4 QH)
ECE G314 Auditory Signal Processing (4 SH, Type A)	ECE 3500 Auditory Signal Processing (4 QH)
ECE G315 Digital Image Processing (4 SH, Type A)	ECE 3505 Digital Image Processing (4 QH)
ECE G316 Modrn Spect Anly & Array Proc (4 SH, Type A)	ECE 3508 Modern Spectral Analysis (4 QH)
ECE G317 Digital FilterBanks & Wavelets (4 SH, Type A)	ECE 3558 Digital Filter Banks & Wavelets (4 QH)
ECE G327 Special Topics in SigProces 1 (4 SH, Type A)	ECE 3557 Specl Topics in Signal Process (4 QH)
ECE G328 Special Topics in SigProces 2 (4 SH, Type A)	<i>New course. No quarter equivalent.</i>
ECE G329 Special Topics in SigProces 3 (4 SH, Type A)	<i>New course. No quarter equivalent.</i>
ECE G330 Multi-User Detection (4 SH, Type A)	ECE 3537 Multi-User Communication Sys (4 QH)
ECE G331 Net Comm & Performance Engr (4 SH, Type A)	ECE 3511 Network Comm & Performance Eng (4 QH)
ECE G332 Error Correcting Codes (4 SH, Type A)	ECE 3514 Error Correcting Codes (4 QH)
ECE G333 Spread Spectrum Comm Systems (4 SH, Type A)	ECE 3553 Spread Spectrum Communictn Sys (4 QH)
ECE G334 Wireless Communications (4 SH, Type A)	ECE 3559 Wireless Communications (4 QH)
ECE G335 Detection & Estimation Theory (4 SH, Type A)	ECE 3361 Detection & Estimation Theory (4 QH)
ECE G336 Digital Communications (4 SH, Type A)	ECE 3351 Digital Communications (4 QH)
ECE G337 Information Theory (4 SH, Type A)	ECE 3567 Network Information Theory (4 QH)
ECE G338 LAN and Interworking (4 SH, Type A)	ECE 3650 LANs and Internetworking (4 QH)
ECE G339 Testing&Design for Testability (4 SH, Type A)	ECE 3477 Testing and Design for Testability (4 QH)
ECE G340 Broadband Comm Networks (4 SH, Type A)	ECE 3657 Broadband Communication Network (4 QH)

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ECE G347 Special Topics in Comm 1 (4 SH, Type A)	ECE 3556 Special Topics System Theory (4 QH)
ECE G348 Special Topics in Comm 2 (4 SH, Type A)	<i>New course. No quarter equivalent.</i>
ECE G349 Special Topics in Comm 3 (4 SH, Type A)	<i>New course. No quarter equivalent.</i>
ECE G350 Software Engineering 1 (4 SH, Type A)	ECE 3311 Software Engineering 1 (4 QH) ----- or ECE 3312 Software Engineering 1-A (2 QH) and ECE 3313 Software Engineering 1-B (2 QH)
ECE G351 Software Engineering 2 (4 SH, Type A)	ECE 3314 Software Engineering 2 (2 QH)
ECE G352 Computer Architecture (4 SH, Type A)	ECE 3391 Computer Architecture (4 QH)
ECE G353 VLSI Design (4 SH, Type A)	ECE 3395 VLSI Design (4 QH)
ECE G354 VLSI Architecture (4 SH, Type A)	ECE 3398 VLSI Architectures (4 QH)
ECE G355 Dig Sys Des w/ Hrdw Des Langs (4 SH, Type A)	ECE 3401 Dig Sys Des with Hdwr Des Lang (4 QH)
ECE G356 Dig SysDes& Interfacng Verilog (4 SH, Type A)	ECE 3407 Digsys Dsgn & Interfac w/Verilog (4 QH)
ECE G357 Fault-Tolerant Computers (4 SH, Type A)	ECE 3469 Fault-Tolerant Computers (4 QH)
ECE G358 Parallel Arch for Hi Perf Comp (4 SH, Type A)	ECE 3473 Parallel Arch Hi Perform Compt (4 QH)
ECE G359 Multiprocessor Architectures (4 SH, Type A)	ECE 3483 Multiprocessor Architectures (4 QH)
ECE G360 Combinatorial Optimization (4 SH, Type A)	ECE 3484 Combinatorial Optimization (4 QH)
ECE G361 Digital Hardware Synthesis (4 SH, Type A)	ECE 3485 Digital Hardware Synthesis (4 QH)
ECE G362 Network Computing (4 SH, Type A)	ECE 3654 Network Computing (4 QH)
ECE G363 Intercon Ntwrk Multicomp (4 SH, Type A)	ECE 3653 Interconnect Networks Multicomp (4 QH)
ECE G364 Mobile and Wireless Networking (4 SH, Type A)	ECE 3656 Mobile and Wireless Networking (4 QH)
ECE G365 Distributed Systems (4 SH, Type A)	ECE 3480 Distributed Systems (4 QH)
ECE G366 Special Topics in Comp Engr 1 (4 SH, Type A)	<i>New course. No quarter equivalent.</i>
ECE G367 Robotics and Automation System (4 SH, Type A)	ECE 3466 Robotics & Automation Systems (4 QH)
ECE G387 Special Topics in Comp Net (4 SH, Type A)	ECE 3655 Speical Topics Computer Networks (4 QH)
ECE G388 Special Topics in Comp Engr 2 (4 SH, Type A)	<i>New course. No quarter equivalent.</i>
ECE G389 Robot Vision and Sensors (4 SH, Type A)	ECE 3463 Robot Vision and Sensors (4 QH)
ECE G391 Spec Prob in Electrical Engr (1 SH, Type F)	<i>New course. No quarter equivalent.</i>
ECE G392 Spec Prob in Electrical Engr (2 SH, Type F)	ECE 3893 Special Problems in Elec Eng'g (2 QH)
ECE G393 Spec Prob in Electrical Engr (3 SH, Type F)	<i>New course. No quarter equivalent.</i>
ECE G394 Spec Prob in Electrical Engr (4 SH, Type F)	ECE 3896 Special Problems in Elec Eng'g (4 QH)
ECE G398 Special Topics (4 SH, Type A)	ECE 3609 Spcl Topics: Electromagnetics (4 QH) or ECE 3694 Special Topics (4 QH)
ECE G399 Advanced Seminar (4 SH, Type D)	ECE 3890 Advanced Seminar (4 QH)
ECE G664 Master's Research (4 SH, Type F)	ECE 3875 Master's Research (4 QH)
ECE G668 Master's Research (8 SH, Type F)	ECE 3876 Master's Research (8 QH)
ECE G674 Master of Science Project (4 SH, Type F)	ECE 3863 Master of Science Project (4 QH)
ECE G681 Thesis (1 SH, Type F)	<i>New course. No quarter equivalent.</i>
ECE G682 Thesis (2 SH, Type F)	ECE 3862 Master's Thesis (2 QH) or ECE 3872 Engineer Degree Thesis (2 QH)
ECE G684 Thesis (4 SH, Type F)	ECE 3861 Master's Thesis (4 QH) or ECE 3871 Engineer Degree Thesis (4 QH)
ECE G688 Thesis (8 SH, Type F)	ECE 3860 Master's Thesis (8 QH)
ECE G699 Thesis Continuation (0 SH, Type F)	ECE 3798 Master's Continuation (0 QH)
ECE G803 PhD Seminar (0 SH, Type F)	ECE 3889 Doctoral Seminar (0 QH)
ECE G860 PhD Reading (0 SH, Type F)	ECE 3892 Doctoral Reading (0 QH)
ECE G864 Doctoral Research (4 SH, Type F)	ECE 3885 Doctoral Research (4 QH)
ECE G868 Doctoral Research (8 SH, Type F)	ECE 3886 Doctoral Research (8 QH)
ECE G890 Dissertation (0 SH, Type F)	ECE 3880 Doctoral Thesis (0 QH)
ECE G899 Dissertation Continuation (0 SH, Type F)	ECE 3799 PhD Thesis Continuation (0 QH)

IEM—Industrial Engineering and Engineering Management

IEM G200 Engineering Probs & Stats (4 SH, Type A)	MIM 3400 Basic Probability & Statistics (4 QH)
IEM G205 Deterministics Ops Research (4 SH, Type A)	MIM 3530 Operations Research 1 (4 QH)
IEM G210 Production Systems (4 SH, Type A)	MIM 3320 Advanced Production Analysis (4 QH)
IEM G215 Simulation Analysis (4 SH, Type A)	MIM 3503 Simulation Methodology & Appl (4 QH)
IEM G220 Engineering Project Management (4 SH, Type A)	MIM 3217 Engineering Project Management (4 QH)
IEM G225 Economic Decision Making (4 SH, Type A)	MIM 3215 Engineering Economy (4 QH)

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Semester Course(s)	Equivalent Quarter Course(s)
IEM G230 Probabilistic Operat Research (4 SH, Type A)	MIM 3531 Operations Research 2 (4 QH) and MIM 3515 Queuing Theory (4 QH) *
IEM G235 Inventory Theory (4 SH, Type A)	MIM 3512 Inventory Theory (4 QH)
IEM G240 Integer and Nonlinear Optimize (4 SH, Type A)	MIM 3532 Operations Research 3 (4 QH)
IEM G245 Network Analy & Adv Lin Prog (4 SH, Type A)	MIM 3513 Network Analy & Adv Linear Prog (4 QH)
IEM G250 Multi-Criteria Decision Making (4 SH, Type A)	MIM 3524 Multi-Criteria Decision Making (4 QH)
IEM G255 Manufacturing Processes (4 SH, Type A)	MIM 3305 Manufacturing Methods & Process (4 QH)
IEM G265 Mass Customization (4 SH, Type A)	MIM 3915 Special Topics (4 QH)
IEM G270 Intelligent Manufacturing (4 SH, Type A)	MIM 3310 Computer Methods in Manufacturing (4 QH)
IEM G275 Expert Sys & Neural Networks (4 SH, Type A)	MIM 3315 Neural Networks in Manufacturing (4 QH) and MIM 3129 Expert Systems in Engineering (4 QH) *
IEM G280 Stat Methods in Engineering (4 SH, Type A)	MIM 3423 Applied Statistics (4 QH) and MIM 3409 Design of Experiments (4 QH) *
IEM G285 Statistical Quality Control (4 SH, Type A)	MIM 3416 Statistical Quality Control (4 QH)
IEM G290 Rel Analy & Risk Assessment (4 SH, Type A)	MIM 3425 Intro Reliability Anly & Risk (4 QH)
IEM G300 Engineering/Org Psychology (4 SH, Type A)	MIM 3204 Engineering Organization Psych (4 QH)
IEM G305 Financial Management for Engr (4 SH, Type A)	MIM 3207 Financial Management for Engrs (4 QH)
IEM G310 Logistics, Warehouse&Schedule (4 SH, Type A)	MIM 3514 Logistics, Warehouseing and Scheduling (4 QH)
IEM G374 Special Topics in IEM (4 SH, Type A)	MIM 3915 Special Topics (4 QH)
IEM G401 Independent Study (1 SH, Type F)	<i>New course. No quarter equivalent.</i>
IEM G402 Independent Study (2 SH, Type F)	<i>New course. No quarter equivalent.</i>
IEM G403 Independent Study (3 SH, Type F)	<i>New course. No quarter equivalent.</i>
IEM G404 Independent Study (4 SH, Type F)	<i>New course. No quarter equivalent.</i>
IEM G674 Master's Project (4 SH, Type A)	MIM 3945 Master's Degree Project (4 QH)
IEM G684 Thesis (4 SH, Type A)	<i>New course. No quarter equivalent.</i>
IEM G688 Thesis (8 SH, Type A)	<i>New course. No quarter equivalent.</i>
IEM G699 Thesis Continuation (0 SH, Type A)	<i>New course. No quarter equivalent.</i>
IEM G890 Dissertation (0 SH, Type A)	<i>New course. No quarter equivalent.</i>
IEM G899 Dissertation Continuation (0 SH, Type A)	<i>New course. No quarter equivalent.</i>

ISY—Information Systems

ISY G090 C/UNIX for Information Systems (4 SH, Type A)	MIM 3132 C/UNIX for Information Systems (4 QH)
ISY G095 Probs & Stats for Info Systems (2 SH, Type A)	<i>New course. No quarter equivalent.</i>
ISY G205 Data Structures (4 SH, Type A)	MIM 3104 Data Structures (4 QH)
ISY G210 Data Mgt and Database Design (4 SH, Type A)	MIM 3128 Database Management Systems (4 QH)
ISY G215 Fund of Software Engr & Comp (4 SH, Type A)	MIM 3115 Intro Software Eng'g & Comp Tech (4 QH) and MIM 3122 PC Architecture & Sys Program (4 QH) *
ISY G220 Operating Sys & Comp Architect (4 SH, Type A)	MIM 3107 Operating Sys & Sys Software (4 QH) and MIM 3110 Computer Architecture (4 QH) *
ISY G225 Networks, Telecom & Distr Sys (4 SH, Type A)	MIM 3126 Networks & Telecommunications (4 QH)
ISY G240 C++ Object-Oriented Design (4 SH, Type A)	MIM 3133 C++ & Object Oriented Design (4 QH)
ISY G245 Pln & Mng Info Systems Dev (4 SH, Type A)	MIM 3102 Planning & Managing Info Sys Dev (4 QH)
ISY G250 E-Business Infrastructure Dev (4 SH, Type A)	<i>New course. No quarter equivalent.</i>
ISY G255 Softwr Mng & Quality Assurance (4 SH, Type A)	<i>New course. No quarter equivalent.</i>
ISY G260 Prac Lab on E-BusinessInfastr (4 SH, Type A)	<i>New course. No quarter equivalent.</i>
ISY G265 Advanced C/Unix (4 SH, Type A)	<i>New course. No quarter equivalent.</i>
ISY G270 PERL Programming (4 SH, Type A)	<i>New course. No quarter equivalent.</i>
ISY G275 Advanced Database Mgt Sys (4 SH, Type A)	<i>New course. No quarter equivalent.</i>
ISY G280 Aprch to Component Soft System (4 SH, Type A)	<i>New course. No quarter equivalent.</i>
ISY G285 Organizational Change and IT (4 SH, Type A)	<i>New course. No quarter equivalent.</i>
ISY G290 Data W/ouse & Bus Intellegence (4 SH, Type A)	<i>New course. No quarter equivalent.</i>
ISY G371 Special Topics (1 SH, Type A)	<i>New course. No quarter equivalent.</i>
ISY G372 Special Topics (2 SH, Type A)	<i>New course. No quarter equivalent.</i>
ISY G373 Special Topics (3 SH, Type A)	<i>New course. No quarter equivalent.</i>
ISY G374 Special Topics (4 SH, Type A)	<i>New course. No quarter equivalent.</i>

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Semester Course(s)	Equivalent Quarter Course(s)
ISY G401 Independent Study (1 SH, Type F)	<i>New course. No quarter equivalent.</i>
ISY G402 Independent Study (2 SH, Type F)	<i>New course. No quarter equivalent.</i>
ISY G403 Independent Study (3 SH, Type F)	<i>New course. No quarter equivalent.</i>
ISY G404 Independent Study (4 SH, Type F)	<i>New course. No quarter equivalent.</i>
ISY G684 Thesis (4 SH, Type F)	<i>New course. No quarter equivalent.</i>
ISY G688 Thesis (8 SH, Type F)	<i>New course. No quarter equivalent.</i>
ISY G699 Thesis Continuation (0 SH, Type F)	<i>New course. No quarter equivalent.</i>

MTM—Mechanics, Thermofluids, and Materials Engineering

MTM G200 Math Methods for Mech Engineer (4 SH, Type A)	MIM 3000 Math Methods for Mech Engrs (4 QH) and MIM 3010 Numerical Methods in ME (4 QH) *
MTM G205 Advanced Methods of Mech Engr (4 SH, Type A)	MIM 3005 Advanced Math Methods for ME (4 QH)
MTM G210 Elasticity and Plasticity (4 SH, Type A)	MIM 3600 Theory of Elasticity (4 QH) and MIM 3680 Mechanics of Metal Forming Manufacturing (4 QH) *
MTM G215 Dynamics & Mechanic Vibration (4 SH, Type A)	MIM 3625 Advanced Dynamics (4 QH) and MIM 3630 Vibration Theory & Appls (4 QH) *
MTM G220 Advanced Mechanics of Material (4 SH, Type A)	MIM 3675 Advanced Mechanics of Material (4 QH) and MIM 3615 Theory of Plates and Shells (4 QH) *
MTM G225 Control and Mechatronics (4 SH, Type A)	MIM 3650 Automatic Control Engineering (4 QH)
MTM G230 Mech of Contact & Lubrication (4 SH, Type A)	<i>New course. No quarter equivalent.</i>
MTM G235 Finite Element Method (4 SH, Type A)	MIM 3690 Finite Element Method (4 QH)
MTM G240 Composite Materials (4 SH, Type A)	MIM 3620 Mechanics of Composite Matls (4 QH)
MTM G245 Fracture Mech & Failure Analy (4 SH, Type A)	MIM 3665 Engineering Fracture Mechanics (4 QH)
MTM G250 Advanced Topics in Vibration (4 SH, Type A)	<i>New course. No quarter equivalent.</i>
MTM G255 Continuum Mechanics (4 SH, Type A)	<i>New course. No quarter equivalent.</i>
MTM G260 Microelectromechanical Sys (4 SH, Type A)	<i>New course. No quarter equivalent.</i>
MTM G270 General Thermodynamics (4 SH, Type A)	MIM 3700 General Thermodynamics (4 QH)
MTM G275 Essentials of Fluid Dynamics (4 SH, Type A)	MIM 3750 Essentials of Fluid Dynamics (4 QH)
MTM G280 Statistical Thermodynamics (4 SH, Type A)	MIM 3710 Statistical Thermodynamics (4 QH)
MTM G285 Heat Con & Thermal Radiation (4 SH, Type A)	MIM 3720 Conductive Heat Transfer (4 QH)
MTM G290 Convective Heat Transfer (4 SH, Type A)	MIM 3725 Convective Heat Transfer (4 QH)
MTM G295 Gas Dynamics (4 SH, Type A)	MIM 3765 Gas Dynamics (4 QH)
MTM G300 Combustion and Air Pollution (4 SH, Type A)	MIM 3795 Combustion & Air Pollution (4 QH)
MTM G305 Fundamentals of Combustion (4 SH, Type A)	MIM 3792 Fundamentals of Combustion (4 QH)
MTM G310 Comp Fluid Dy w/ Heat Transfer (4 SH, Type A)	MIM 3770 Computational Fluid Dynamics (4 QH)
MTM G315 Heat Trans Proc in MicroDevice (4 SH, Type A)	MIM 3740 Heat Trans Proc Microelec Dev (4 QH)
MTM G320 Solar Thermal Engineering (4 SH, Type A)	MIM 3735 Solar Thermal Engineering 1 (4 QH)
MTM G325 Two Phase Flow (4 SH, Type A)	MIM 3755 Two Phase Flow (4 QH)
MTM G330 Turbulent Flow (4 SH, Type A)	MIM 3785 Turbulent Flow (4 QH)
MTM G335 Aerosol Mechanics (4 SH, Type A)	MIM 3780 Aerosol Mechanics (4 QH)
MTM G340 Turbomachinery Design (4 SH, Type A)	MIM 3775 Turbo Machinery Design (4 QH)
MTM G345 Macro Tran in Material Process (4 SH, Type A)	MIM 3790 Macroscopic Transport Matl Pro (4 QH)
MTM G350 Mech Behav & Strength Mechs (4 SH, Type A)	MIM 3800 Strengthening Mechanisms (4 QH)
MTM G355 Thermodynamics of Materials (4 SH, Type A)	MIM 3820 Thermodynamics of Materials (4 QH)
MTM G360 Kinetics of Phase Transformat (4 SH, Type A)	MIM 3806 Phase Transformations (4 QH)
MTM G365 Prop & Proc of Elec Materials (4 SH, Type A)	MIM 3825 Electronic Behavior 1 (4 QH) and MIM 3830 Electronic Behavior 2 (2 QH) *
MTM G370 Envir Issues in Mfg & Prod Use (4 SH, Type A)	MIM 3839 Environmental Issues in Mfg (4 QH)
MTM G374 Special Topics in MTM (4 SH, Type A)	MIM 3915 Special Topics (4 QH)
MTM G375 Corrosion of Materials (4 SH, Type A)	MIM 3841 Corrosion of Materials (4 QH)
MTM G380 Particulate Materials Process (4 SH, Type A)	MIM 3816 Powder Metallurgy (4 QH) and MIM 3869 Ceramics Processing (4 QH) *
MTM G385 Struct, Prop & Proc Poly Mat (4 SH, Type A)	MIM 3880 Struct & Prop Polymeric Matls (4 QH)
MTM G390 Advanced Materials Processing (4 SH, Type A)	<i>New course. No quarter equivalent.</i>
MTM G401 Independent Study (1 SH, Type G)	<i>New course. No quarter equivalent.</i>
MTM G402 Independent Study (2 SH, Type G)	<i>New course. No quarter equivalent.</i>
MTM G403 Independent Study (3 SH, Type G)	<i>New course. No quarter equivalent.</i>
MTM G404 Independent Study (4 SH, Type G)	MIM 3905 Independent Study (4 QH)

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Semester Course(s)	Equivalent Quarter Course(s)
MTM G684 Thesis (4 SH, Type A)	MIM 3930 Master's Thesis (4 QH)
MTM G688 Thesis (8 SH, Type A)	MIM 3935 Master's Thesis (8 QH)
MTM G699 Thesis Continuation (0 SH, Type A)	MIM 3940 Master's Continuation (0 QH)
MTM G890 Dissertation (0 SH, Type A)	MIM 3985 PhD Dissertation (0 QH)
MTM G899 Dissertation Continuation (0 SH, Type A)	MIM 3990 PhD Continuation (0 QH)

TSM—Telecommunication Systems Management

TSM G310 Fundamentals of Comm Systems (4 SH, Type A)	TSM 3100 Fundamentals of Communication Systems (4 QH)
TSM G320 Telecom Arch and Systems (4 SH, Type A)	TSM 3200 Telecommunications Architecture & Systems (4 QH)
TSM G330 Data Networking (4 SH, Type A)	TSM 3300 Data Networking (4 QH)
TSM G340 Telecom Public Policy/Bus Mgt (4 SH, Type A)	TSM 3400 Telecom Public Policy/Bus Mgt (4 QH)
TSM G350 IP Telephony (4 SH, Type A)	TSM 3500 IP Telephony (4 QH)

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