

Semester Course Content Equivalencies Handbook

Graduate Schools

Quarter to Semester 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 quarter courses together with their semester course content equivalents. The quarter 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.

Quarter Course(s)	Equivalent Semester Course(s)
CHE 3300 Chemical Engineering Math (4 QH)	CHE G320 Chemical Engineering Math (4 SH, Type A)
CHE 3310 Chem Eng'g Thermodynamics 1 (4 QH)	CHE G330 Chem Engineering Thermodynamic (4 SH, Type A)
CHE 3320 Separation Processes (4 QH)	CHE G203 Separations Process (4 SH, Type A)
CHE 3330 Chemical Process Control (4 QH)	CHE G231 Chem Process Dynamic & Control (4 SH, Type A)
CHE 3340 Heterogeneous Catalysis (4 QH)	CHE G204 Hetrogeneous Catalysis (4 SH, Type A)
CHE 3350 Chemical Process Heat Transfer (4 QH)	CHE G202 Chemical Process Heat Transfer (4 SH, Type A)
CHE 3360 Process Safety & Risk Analysis (4 QH)	CHE G230 Process Safety & Risk Analysis (4 SH, Type A)
CHE 3400 Advanced Chem Eng'g Calculations (4 QH)	CHE G210 Advanced Chem Eng Calculations (4 SH, Type A)
CHE 3410 Numerical Techniques Chem Eng'g (4 QH)	CHE G205 Numeric Techniques in Chem Eng (4 SH, Type A)
CHE 3480 Distributed Systems (4 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
CHE 3500 Transport Phenomena (4 QH)	CHE G350 Transport Phenomena (4 SH, Type A)
CHE 3520 Computer Process Control (4 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
CHE 3530 Adv Mgt Tech in Chem Industry (4 QH)	CHE G250 Adv Mgt Tech in Chem Industry (4 SH, Type A)
CHE 3540 Adv Process Design Concepts (4 QH)	<i>No semester equivalent. Converts to departmental credit.</i>

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Quarter Course(s)	Equivalent Semester Course(s)
CHE 3560 Fluid Mechanics (4 QH)	CHE G201 Fluid Mechanics (4 SH, Type A)
CHE 3600 Polymer Science (4 QH)	CHE G240 Polymer Science (4 SH, Type A)
CHE 3601 Polymer Science 1 (2 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
----- <i>with</i> CHE 3602 Polymer Science 2 (2 QH)	CHE G240 Polymer Science (4 SH, Type A)
CHE 3602 Polymer Science 2 (2 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
----- <i>with</i> CHE 3601 Polymer Science 1 (2 QH)	CHE G240 Polymer Science (4 SH, Type A)
CHE 3620 Principals of Polymerization (4 QH)	CHE G241 Polymerization & Poly Process (4 SH, Type A)
CHE 3670 Special Topics in Chem Eng'g (4 QH)	CHE G260 Special Topics in Chem Engr (4 SH, Type A)
CHE 3671 Kinetics of Chemical Processes (4 QH)	CHE G340 Chemical Engineering Kinetics (4 SH, Type A)
CHE 3691 Seminar (2 QH) *	CHE G390 Seminar (0 SH, Type D)
CHE 3692 Seminar Continuation (0 QH)	CHE G390 Seminar (0 SH, Type D)
CHE 3701 Special Topics in Chem Eng'g 1 (2 QH)	CHE G261 Special Topics in Chem Engr (2 SH, Type A)
CHE 3702 Special Topics in Chem Eng'g 2 (2 QH)	CHE G261 Special Topics in Chem Engr (2 SH, Type A)
CHE 3798 Master's Continuation (0 QH)	CHE G699 Thesis Continuation (0 SH, Type F)
CHE 3799 PhD Continuation (0 QH)	CHE G899 Dissertation Continuation (0 SH, Type F)
CHE 3860 Master's Thesis (10 QH) *	CHE G684 Thesis (4 SH, Type F)
CHE 3861 Master's Thesis (4 QH)	CHE G684 Thesis (4 SH, Type F)
CHE 3862 Master's Thesis (2 QH)	CHE G682 Thesis (2 SH, Type F)
CHE 3880 PhD Thesis (0 QH)	CHE G890 Dissertation (0 SH, Type F)

CIV—Civil Engineering

CIV 3101 Applied Probability (4 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
CIV 3131 Engineering Statistics 1 (2 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
CIV 3201 Construction Management (4 QH)	CIV G220 Construction Management (4 SH, Type A)
CIV 3202 Legal Aspects of Civil Eng'g (4 QH)	CIV G230 Legal Aspects of Civil Engr (4 SH, Type A)
CIV 3203 Construction Equip & Modeling (4 QH)	CIV G240 Construction Equip & Modeling (4 SH, Type A)
CIV 3231 Construction Management 2 (2 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
----- <i>and</i> CIV 3232 Construction Management 2 (2 QH)	CIV G220 Construction Management (4 SH, Type A)
CIV 3232 Construction Management 2 (2 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
----- <i>and</i> CIV 3231 Construction Management 2 (2 QH)	CIV G220 Construction Management (4 SH, Type A)
CIV 3237 Construction Methods & Equip 1 (2 QH)	CIV G240 Construction Equip & Modeling (4 SH, Type A)
CIV 3241 Legal Aspects of Civil Eng'g 1 (2 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
----- <i>with</i> CIV 3242 Legal Aspects of Civil Eng'g 2 (2 QH)	CIV G230 Legal Aspects of Civil Engr (4 SH, Type A)
CIV 3242 Legal Aspects of Civil Eng'g 2 (2 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
----- <i>with</i> CIV 3241 Legal Aspects of Civil Eng'g 1 (2 QH)	CIV G230 Legal Aspects of Civil Engr (4 SH, Type A)
CIV 3245 Construction Seminar (2 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
CIV 3252 Construction Proj Cntrl & Organ (2 QH)	CIV G221 Construct Proj Control and Org (2 SH, Type A)
CIV 3301 Surface Water Hydrology & Contmtn (4 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
----- <i>with</i> CIV 3355 Surface Water Hydrology (2 QH) *	CIV G261 Surface Water Hydr & Qual Mod (4 SH, Type A)
CIV 3302 Groundwater Hydrology & Contmtn (4 QH)	CIV G263 Grndwater Hydr & Qual Modeling (4 SH, Type A)
CIV 3303 Groundwater Modeling (4 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
CIV 3304 Adv Wastewater Treatmt & Ind Pro (4 QH)	CIV G253 Adv Muni & Ind WW Treatment (4 SH, Type A)
CIV 3305 Solid & Hazardous Waste Mgmt (4 QH)	CIV G271 Solid & Hazardous Waste Mgmt (4 SH, Type A)
CIV 3306 Air Pollution (4 QH)	CIV G272 Air Quality Management (4 SH, Type A)
CIV 3307 Environmental Protection & Mgmt (4 QH)	CIV G270 Environmental Protection&Mgmt (4 SH, Type A)
CIV 3310 Environmental Chemistry 1 (2 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
----- <i>with</i> CIV 3311 Environmental Chemistry 2 (2 QH) <i>and</i> CIV 3325 Environmental Chemistry Lab (2 QH) *	CIV G250 Environmental Chemistry (4 SH, Type A)

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CIV 3311 Environmental Chemistry 2 (2 QH) <i>alone</i> with CIV 3310 Environmental Chemistry 1 (2 QH) and CIV 3325 Environmental Chemistry Lab (2 QH) *	<i>No semester equivalent. Converts to departmental credit.</i> CIV G250 Environmental Chemistry (4 SH, Type A)
CIV 3312 Environmental Chemistry (4 QH) <i>alone</i> with CIV 3325 Environmental Chemistry Lab (2 QH) *	<i>No semester equivalent. Converts to departmental credit.</i> CIV G250 Environmental Chemistry (4 SH, Type A)
CIV 3315 Water & Wastewater Treatment 1 (2 QH) <i>alone</i> with CIV 3316 Water & Wastewater Treatment 2 (2 QH)	<i>No semester equivalent. Converts to departmental credit.</i> CIV G252 Water & Wastewater Treatmt (4 SH, Type A)
CIV 3316 Water & Wastewater Treatment 2 (2 QH) <i>alone</i> with CIV 3315 Water & Wastewater Treatment 1 (2 QH)	<i>No semester equivalent. Converts to departmental credit.</i> CIV G252 Water & Wastewater Treatmt (4 SH, Type A)
CIV 3318 Water & Wastewater Treatment (4 QH)	CIV G252 Water & Wastewater Treatmt (4 SH, Type A)
CIV 3321 Environmental Biological Proc (4 QH) <i>alone</i> with CIV 3326 Biological Processes Lab (2 QH) *	<i>No semester equivalent. Converts to departmental credit.</i> CIV G251 Environmental Biol Process (4 SH, Type A)
CIV 3322 Environmental Biological Proc 1 (2 QH) <i>alone</i> with CIV 3323 Environmental Biological Proc 2 (2 QH) and CIV 3326 Biological Processes Lab (2 QH) *	<i>No semester equivalent. Converts to departmental credit.</i> CIV G251 Environmental Biol Process (4 SH, Type A)
CIV 3323 Environmental Biological Proc 2 (2 QH) <i>alone</i> with CIV 3322 Environmental Biological Proc 1 (2 QH) and CIV 3326 Biological Processes Lab (2 QH) *	<i>No semester equivalent. Converts to departmental credit.</i> CIV G251 Environmental Biol Process (4 SH, Type A)
CIV 3324 Hazardous Waste Management (4 QH) <i>alone</i> with CIV 3328 Integrated Solid Waste Management (4 QH) *	<i>No semester equivalent. Converts to departmental credit.</i> CIV G271 Solid & Hazardous Waste Mgmt (4 SH, Type A)
CIV 3325 Environmental Chemistry Lab (2 QH) <i>alone</i> with CIV 3310 Environmental Chemistry 1 (2 QH) and CIV 3311 Environmental Chemistry 2 (2 QH) *	<i>No semester equivalent. Converts to departmental credit.</i> CIV G250 Environmental Chemistry (4 SH, Type A)
with CIV 3312 Environmental Chemistry (4 QH) *	CIV G250 Environmental Chemistry (4 SH, Type A)
CIV 3326 Biological Processes Lab (2 QH) <i>alone</i> with CIV 3322 Environmental Biological Proc 1 (2 QH) and CIV 3323 Environmental Biological Proc 2 (2 QH) *	<i>No semester equivalent. Converts to departmental credit.</i> CIV G251 Environmental Biol Process (4 SH, Type A)
with CIV 3321 Environmental Biological Proc (4 QH) *	CIV G251 Environmental Biol Process (4 SH, Type A)
CIV 3327 Environmental Laboratory (4 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
CIV 3328 Integrated Solid Waste Management (4 QH) <i>alone</i> with CIV 3324 Hazardous Waste Management (4 QH) *	<i>No semester equivalent. Converts to departmental credit.</i> CIV G271 Solid & Hazardous Waste Mgmt (4 SH, Type A)
CIV 3332 Environmental Computer Appls (2 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
CIV 3340 Watershed Management (4 QH)	CIV G262 Watershed Management (4 SH, Type A)
CIV 3341 Industrial Waste Disposal (2 QH)	CIV G253 Adv Muni & Ind WW Treatment (4 SH, Type A)
CIV 3348 Fate & Trans of Contaminants (2 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
CIV 3355 Surface Water Hydrology (2 QH) <i>alone</i> with CIV 3301 Surface Water Hydrology & Contmn (4 QH) *	<i>No semester equivalent. Converts to departmental credit.</i> CIV G261 Surface Water Hydr & Qual Mod (4 SH, Type A)
CIV 3358 Groundwater Hydrology (2 QH) <i>alone</i> with CIV 3360 Groundwater Modeling (2 QH)	<i>No semester equivalent. Converts to departmental credit.</i> CIV G263 Grndwater Hydr & Qual Modeling (4 SH, Type A)
CIV 3360 Groundwater Modeling (2 QH) <i>alone</i> with CIV 3358 Groundwater Hydrology (2 QH)	<i>No semester equivalent. Converts to departmental credit.</i> CIV G263 Grndwater Hydr & Qual Modeling (4 SH, Type A)
CIV 3370 Air Pollution Engineering (2 QH) <i>alone</i> with CIV 3374 Air Pollution Science (2 QH)	<i>No semester equivalent. Converts to departmental credit.</i> CIV G272 Air Quality Management (4 SH, Type A)
CIV 3372 Air Sampling & Analysis (2 QH)	<i>No semester equivalent. Converts to departmental credit.</i>

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CIV 3374 Air Pollution Science (2 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with</i> CIV 3370 Air Pollution Engineering (2 QH)	CIV G272 Air Quality Management (4 SH, Type A)
CIV 3384 Solid Waste Management (2 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with</i> CIV 3386 Hazardous Waste Remediation (2 QH)	CIV G271 Solid & Hazardous Waste Mgmt (4 SH, Type A)
CIV 3386 Hazardous Waste Remediation (2 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with</i> CIV 3384 Solid Waste Management (2 QH)	CIV G271 Solid & Hazardous Waste Mgmt (4 SH, Type A)
CIV 3401 Advanced Soil Mechanics (4 QH)	CIV G301 Advanced Soil Mechanics (4 SH, Type A)
CIV 3402 Adv Foundation Engineering (4 QH)	CIV G302 Advance Foundation Engineering (4 SH, Type A)
CIV 3403 Seepage & Stability (4 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
CIV 3404 Intro Dynamics & Earthquake Eng'g (4 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
CIV 3405 Soil Dynamics (4 QH)	CIV G311 Soil and Foundation Dynamics (4 SH, Type A)
CIV 3406 Earthquake Engineering (4 QH)	CIV G312 Earthquake Engineering (4 SH, Type A)
CIV 3407 Engineering Geology (4 QH)	CIV G322 Engineering Geology (4 SH, Type A)
CIV 3408 Geoenvironmental Engineering (4 QH)	CIV G321 Geoenvironmental Engineering (4 SH, Type A)
CIV 3410 Soil Mechanics 1 (2 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with</i> CIV 3411 Soil Mechanics 2 (2 QH)	CIV G301 Advanced Soil Mechanics (4 SH, Type A)
CIV 3411 Soil Mechanics 2 (2 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with</i> CIV 3410 Soil Mechanics 1 (2 QH)	CIV G301 Advanced Soil Mechanics (4 SH, Type A)
CIV 3470 Intro Dynamics & Earthquake Eng (2 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
CIV 3471 Advanced Soil Dynamics (2 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
CIV 3485 Sel Topics in Earthquake Eng'g (2 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
CIV 3501 Advanced Structural Analysis (4 QH)	CIV G330 Advanced Structural Analysis (4 SH, Type A)
CIV 3502 Advanced Mechanics (4 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
CIV 3503 Structural Dynamics (4 QH)	CIV G331 Structural Dynamics (4 SH, Type A)
CIV 3504 Seismic Analysis (4 QH)	CIV G340 Seismic Analysis and Design (4 SH, Type A)
CIV 3505 Behavior Reinforced Conc Strct (4 QH)	CIV G350 Behavior of Concrete Structure (4 SH, Type A)
CIV 3506 Behavior of Steel Structures (4 QH)	CIV G351 Behavior of Steel Structures (4 SH, Type A)
CIV 3507 Design Prestressed Concrct Strc (4 QH) *	CIV G353 Prestressed Concrete (2 SH, Type A)
CIV 3508 Advanced Materials (4 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
CIV 3510 Structural Mechanics (2 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with</i> CIV 3536 Advanced Structural Analysis (2 QH)	CIV G330 Advanced Structural Analysis (4 SH, Type A)
CIV 3513 Structural Reliability (4 QH)	CIV G341 Structural Reliability (4 SH, Type A)
CIV 3536 Advanced Structural Analysis (2 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with</i> CIV 3510 Structural Mechanics (2 QH)	CIV G330 Advanced Structural Analysis (4 SH, Type A)
CIV 3559 Behav Reinforced Concrete Str (2 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
CIV 3561 Reinforced Concrete Slabs (2 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
CIV 3570 Advanced Steel Design (2 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
CIV 3602 Transportation Demand Models (4 QH)	CIV G381 Transportation Demand Models (4 SH, Type A)
CIV 3603 Transportation Supply Models (4 QH)	CIV G380 Transportation Performance Models (4 SH, Type A)
CIV 3607 Traffic Engineering (4 QH)	CIV G376 Traffic Eng and Control (4 SH, Type A)
CIV 3610 Urban Public Transportation (2 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
CIV 3612 Public Transportation (4 QH)	CIV G385 Public Transportation (4 SH, Type A)
CIV 3636 Transportation Engineering (4 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
CIV 3642 Transportation Planning (4 QH)	CIV G373 Trans Planning and Engineering (4 SH, Type A)
CIV 3650 Urban Transportation Analy 1 (2 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
CIV 3686 Bridge Design (4 QH) *	CIV G352 Bridge Design (2 SH, Type A)
CIV 3798 Master's Continuation (0 QH)	CIV G699 Thesis Continuation (0 SH, Type F)
CIV 3799 PhD Continuation (0 QH)	CIV G899 Dissertation Continuation (0 SH, Type F)
CIV 3830 Special Topics in Civil Eng'g (2 QH)	CIV G388 Special Topics in Civil Engr (2 SH, Type A)
CIV 3831 Special Topics in Civil Eng'g (4 QH)	CIV G389 Special Topics in Civil Engr (4 SH, Type A)
CIV 3835 Independent Study/Project (2 QH)	CIV G402 Independent Study (2 SH, Type F)
CIV 3836 Independent Study/Project (4 QH)	CIV G404 Independent Study (4 SH, Type F)

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

ECE—Electrical and Computer Engineering

ECE 3100 Intro to Circuits & Systems (4 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
ECE 3101 Introduction to Electronics (4 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
ECE 3103 Intro Digital Systems Design (4 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
ECE 3108 Intro to Signals & Systems (4 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
ECE 3109 Intro to Computer Systems (4 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
ECE 3211 Mathematical Methods in EE 1 (4 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
ECE 3212 Mathematical Methods in EE 1-A (2 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
ECE 3213 Mathematical Methods in EE 1-B (2 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
ECE 3221 Linear Systems Analysis (4 QH)	ECE G200 Linear Systems Analysis (4 SH, Type A)
ECE 3231 Mathematical Methods in EE 2 (4 QH)	ECE G203 Complex Variable & Diff Equat (4 SH, Type A)
ECE 3241 Applied Prob & Stochastic Proc (4 QH)	ECE G204 Appl Prob & Stochastic Proc (4 SH, Type A)
ECE 3242 Applied Prob & Stochastic Proc A (2 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with</i> ECE 3243 Applied Prob & Stochastic Proc B (2 QH)	ECE G204 Appl Prob & Stochastic Proc (4 SH, Type A)
ECE 3243 Applied Prob & Stochastic Proc B (2 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with</i> ECE 3242 Applied Prob & Stochastic Proc A (2 QH)	ECE G204 Appl Prob & Stochastic Proc (4 SH, Type A)
ECE 3301 Power Circuit Analysis (4 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
ECE 3304 Motion Control with DC Drives (2 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with</i> ECE 3307 Motion Control with AC Drives (2 QH)	ECE G102 Electric Drives (4 SH, Type A)
ECE 3307 Motion Control with AC Drives (2 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with</i> ECE 3304 Motion Control with DC Drives (2 QH)	ECE G102 Electric Drives (4 SH, Type A)
ECE 3310 Electrical Machinery Theory (4 QH)	ECE G104 Electrical Machines (4 SH, Type A)
ECE 3311 Software Engineering 1 (4 QH)	ECE G350 Software Engineering 1 (4 SH, Type A)
ECE 3312 Software Engineering 1-A (2 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with</i> ECE 3313 Software Engineering 1-B (2 QH)	ECE G350 Software Engineering 1 (4 SH, Type A)
ECE 3313 Software Engineering 1-B (2 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with</i> ECE 3312 Software Engineering 1-A (2 QH)	ECE G350 Software Engineering 1 (4 SH, Type A)
ECE 3314 Software Engineering 2 (2 QH)	ECE G351 Software Engineering 2 (4 SH, Type A)
ECE 3321 Digital Signal Processing (4 QH)	ECE G110 Digital Signal Processing (4 SH, Type A)
ECE 3331 Analog Integrated Circuits (4 QH)	ECE G240 Analog Integ Circuit Design (4 SH, Type A)
ECE 3341 Electromagnetic Theory 1 (4 QH)	ECE G202 Electromagnetic Theory 1 (4 SH, Type A)
ECE 3342 Electromagnetic Theory 1-A (2 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with</i> ECE 3343 Electromagnetic Theory 1-B (2 QH)	ECE G202 Electromagnetic Theory 1 (4 SH, Type A)
ECE 3343 Electromagnetic Theory 1-B (2 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with</i> ECE 3342 Electromagnetic Theory 1-A (2 QH)	ECE G202 Electromagnetic Theory 1 (4 SH, Type A)
ECE 3344 Electromagnetic Theory 2 (4 QH)	ECE G270 Electromagnetic Theory 2 (4 SH, Type A)
ECE 3347 Cmpatnl Methods in Electromag (4 QH)	ECE G271 Comp Mthds in Electromagnetics (4 SH, Type A)
ECE 3351 Digital Communications (4 QH)	ECE G336 Digital Communications (4 SH, Type A)
ECE 3361 Detection & Estimation Theory (4 QH)	ECE G335 Detection & Estimation Theory (4 SH, Type A)
ECE 3371 Linear Optimal Control Theory (4 QH)	ECE G214 Optimal and Robust Control (4 SH, Type A)
ECE 3381 Classical Control Theory (4 QH)	ECE G103 Classical Control Systems (4 SH, Type A)
ECE 3384 Solid State Devices 1 (4 QH)	ECE G201 Solid State Devices (4 SH, Type A)
ECE 3388 Solid State Devices 2 (4 QH)	ECE G241 Advanced Solid State Devices (4 SH, Type A)

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ECE 3391 Computer Architecture (4 QH)	ECE G352 Computer Architecture (4 SH, Type A)
ECE 3395 VLSI Design (4 QH)	ECE G353 VLSI Design (4 SH, Type A)
ECE 3398 VLSI Architectures (4 QH)	ECE G354 VLSI Architecture (4 SH, Type A)
ECE 3401 Dig Sys Des with Hdwr Des Lang (4 QH)	ECE G355 Dig Sys Des w/ Hrdw Des Langs (4 SH, Type A)
ECE 3407 Digsys Dsgn & Interfac w/Verilog (4 QH)	ECE G356 Dig SysDes& Interfacng Verilog (4 SH, Type A)
ECE 3417 Analysis of Equipment Failure (2 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
ECE 3423 Special Topics in Power (2 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
ECE 3429 Electric Power Transmission (4 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
ECE 3432 Power System Operation & Control (4 QH)	ECE G221 Power System Ops and Control (4 SH, Type A)
ECE 3433 Power Electronics (4 QH)	ECE G100 Power Electronics (4 SH, Type A)
ECE 3463 Robot Vision and Sensors (4 QH)	ECE G389 Robot Vision and Sensors (4 SH, Type A)
ECE 3466 Robotics & Automation Systems (4 QH)	ECE G367 Robotics and Automation System (4 SH, Type A)
ECE 3469 Fault-Tolerant Computers (4 QH)	ECE G357 Fault-Tolerant Computers (4 SH, Type A)
ECE 3473 Parallel Arch Hi Perform Compt (4 QH)	ECE G358 Parallel Arch for Hi Perf Comp (4 SH, Type A)
ECE 3477 Testing and Design for Testability (4 QH)	ECE G339 Testing&Design for Testability (4 SH, Type A)
ECE 3480 Distributed Systems (4 QH)	ECE G365 Distributed Systems (4 SH, Type A)
ECE 3483 Multiprocessor Architectures (4 QH)	ECE G359 Multiprocessor Architectures (4 SH, Type A)
ECE 3484 Combinatorial Optimization (4 QH)	ECE G360 Combinatorial Optimization (4 SH, Type A)
ECE 3485 Digital Hardware Synthesis (4 QH)	ECE G361 Digital Hardware Synthesis (4 SH, Type A)
ECE 3497 Statistical Signal Processing (4 QH)	ECE G312 Stat & Adaptive Sig Processing (4 SH, Type A)
ECE 3500 Auditory Signal Processing (4 QH)	ECE G314 Auditory Signal Processing (4 SH, Type A)
ECE 3505 Digital Image Processing (4 QH)	ECE G315 Digital Image Processing (4 SH, Type A)
ECE 3508 Modern Spectral Analysis (4 QH)	ECE G316 Modrn Spect Analy & Array Proc (4 SH, Type A)
ECE 3511 Network Comm & Performance Eng (4 QH)	ECE G331 Net Comm & Performance Engr (4 SH, Type A)
ECE 3514 Error Correcting Codes (4 QH)	ECE G332 Error Correcting Codes (4 SH, Type A)
ECE 3526 Nonlinear Systems (4 QH)	ECE G211 Nonlinear Control (4 SH, Type A)
ECE 3531 Adaptive Signal Processing (4 QH)	ECE G312 Stat & Adaptive Sig Processing (4 SH, Type A)
ECE 3534 Digital Proc of Speech Signals (4 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
ECE 3537 Multi-User Communication Sys (4 QH)	ECE G330 Multi-User Detection (4 SH, Type A)
ECE 3540 Digital Control Systems (4 QH)	ECE G210 Digital Control Systems (4 SH, Type A)
ECE 3549 Multivariable Control Systems (4 QH)	ECE G212 Multivariable Control System (4 SH, Type A)
ECE 3552 System ID & Adaptive Control (4 QH)	ECE G213 System ID & Adaptive Control (4 SH, Type A)
ECE 3553 Spread Spectrum Communictn Sys (4 QH)	ECE G333 Spread Spectrum Comm Systems (4 SH, Type A)
ECE 3554 Advanced Topics Communication (4 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
ECE 3555 Static Patterns Rec and Neural Network (4 QH)	ECE G313 Pattern Recognition (4 SH, Type A)
ECE 3556 Special Topics System Theory (4 QH)	ECE G347 Special Topics in Comm 1 (4 SH, Type A)
ECE 3557 Specl Topics in Signal Process (4 QH)	ECE G327 Special Topics in SigProces 1 (4 SH, Type A)
ECE 3558 Digital Filter Banks & Wavelets (4 QH)	ECE G317 Digital FilterBanks & Wavelets (4 SH, Type A)
ECE 3559 Wireless Communications (4 QH)	ECE G334 Wireless Communications (4 SH, Type A)
ECE 3560 Acoustics 1 (2 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
ECE 3561 Acoustics 2 (2 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
ECE 3563 Radar Systems 1 (4 QH)	ECE G272 Radar System (4 SH, Type A)
ECE 3567 Network Information Theory (4 QH)	ECE G337 Information Theory (4 SH, Type A)
ECE 3571 Fourier and Binary Optics (4 QH)	ECE G280 Fourier and Binary Optics (4 SH, Type A)
ECE 3574 Fourier Optics 2 (4 QH)	ECE G281 Fourier Optics (4 SH, Type A)
ECE 3575 Lasers (4 QH)	ECE G282 Lasers (4 SH, Type A)
ECE 3579 Optoelectronics & Fiber Optics (2 QH)	ECE G285 Optoelectronics & Fiber Optics (2 SH, Type A)
ECE 3582 Optics for Engineers (4 QH)	ECE G105 Optics for Engineers (4 SH, Type A)
ECE 3586 Optical Detection (4 QH)	ECE G287 Optical Detection (4 SH, Type A)
ECE 3593 Plasma Engineering (4 QH)	ECE G290 Plasma Engineering (4 SH, Type A)
ECE 3594 Plasma Theory (4 QH)	ECE G291 Plasma Theory (4 SH, Type A)
ECE 3597 Optical Properties of Matter (4 QH)	ECE G284 Optical Properties of Matter (4 SH, Type A)
ECE 3598 Remote Sensing (4 QH)	ECE G273 Remote Sensing (4 SH, Type A)
ECE 3599 IR Imaging (2 QH)	ECE G286 IR Imaging (2 SH, Type A)
ECE 3600 Microwave Properties of Matls (4 QH)	ECE G276 Microwave Prop of Materials (4 SH, Type A)
ECE 3603 Propgtn in Artificial Structures (4 QH)	ECE G274 Propagation in Artfical Struct (4 SH, Type A)
ECE 3609 Spcl Topics: Electromagnetics (4 QH)	ECE G398 Special Topics (4 SH, Type A)
ECE 3610 Electronic Analog Signl Proc (4 QH)	<i>No semester equivalent. Converts to departmental credit.</i>

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Quarter Course(s)	Equivalent Semester Course(s)
ECE 3613 Solid State Microwave Circuits (4 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with</i> ECE 3644 Passive Microwave Circuits (4 QH) *	ECE G245 Micro CrcDes for Wireless Comm (4 SH, Type A)
ECE 3619 Network Synthesis (4 QH)	ECE G242 Integ Circ & Analog Signal Pro (4 SH, Type A)
ECE 3626 Integrated Circts Fabrictn 1 (4 QH)	ECE G243 Integrat Circuit Fabrication (4 SH, Type A)
ECE 3629 Integrated Circts Fabrictn Pro (4 QH)	ECE G292 Plasma Processing Seminar (4 SH, Type A)
ECE 3632 Dsgn & Anlys Dgltl Interg Circ (4 QH)	ECE G246 Dsn & Anlys of Dgltl Integ Crc (4 SH, Type A)
ECE 3635 Antennas & Radiation (4 QH)	ECE G275 Antennas and Radiation (4 SH, Type A)
ECE 3638 Microwave Electron Devices (4 QH)	ECE G277 Microwave Electron Devices (4 SH, Type A)
ECE 3641 High Speed & High Freq SS Device (4 QH)	ECE G241 Advanced Solid State Devices (4 SH, Type A)
ECE 3642 Microelecmech Systems (MEMS) (4 QH)	ECE G244 Intro to MEMS (4 SH, Type A)
ECE 3644 Passive Microwave Circuits (4 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with</i> ECE 3613 Solid State Microwave Circuits (4 QH) *	ECE G245 Micro CrcDes for Wireless Comm (4 SH, Type A)
ECE 3650 LANs and Internetworking (4 QH)	ECE G338 LAN and Interworking (4 SH, Type A)
ECE 3652 Fundamentals of Computer Eng'g (4 QH)	ECE G205 Fundamentals of Computer Engr (4 SH, Type A)
ECE 3653 Interconnect Networks Multicomp (4 QH)	ECE G363 Intercon Ntwrk Multicomp (4 SH, Type A)
ECE 3654 Network Computing (4 QH)	ECE G362 Network Computing (4 SH, Type A)
ECE 3655 Speical Topics Computer Networks (4 QH)	ECE G387 Special Topics in Comp Net (4 SH, Type A)
ECE 3656 Mobile and Wireless Networking (4 QH)	ECE G364 Mobile and Wireless Networking (4 SH, Type A)
ECE 3657 Broadband Communication Network (4 QH)	ECE G340 Broadband Comm Networks (4 SH, Type A)
ECE 3680 Distributed Systems (4 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
ECE 3694 Special Topics (4 QH)	ECE G398 Special Topics (4 SH, Type A)
ECE 3797 Engineer Degree Continuation (0 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
ECE 3798 Master's Continuation (0 QH)	ECE G699 Thesis Continuation (0 SH, Type F)
ECE 3799 PhD Thesis Continuation (0 QH)	ECE G899 Dissertation Continuation (0 SH, Type F)
ECE 3860 Master's Thesis (8 QH)	ECE G688 Thesis (8 SH, Type F)
ECE 3861 Master's Thesis (4 QH)	ECE G684 Thesis (4 SH, Type F)
ECE 3862 Master's Thesis (2 QH)	ECE G682 Thesis (2 SH, Type F)
ECE 3863 Master of Science Project (4 QH)	ECE G674 Master of Science Project (4 SH, Type F)
ECE 3864 Master of Science Project Cont (0 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
ECE 3870 Engineer Degree Thesis (8 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
ECE 3871 Engineer Degree Thesis (4 QH)	ECE G684 Thesis (4 SH, Type F)
ECE 3872 Engineer Degree Thesis (2 QH)	ECE G682 Thesis (2 SH, Type F)
ECE 3875 Master's Research (4 QH)	ECE G664 Master's Research (4 SH, Type F)
ECE 3876 Master's Research (8 QH)	ECE G668 Master's Research (8 SH, Type F)
ECE 3880 Doctoral Thesis (0 QH)	ECE G890 Dissertation (0 SH, Type F)
ECE 3885 Doctoral Research (4 QH)	ECE G864 Doctoral Research (4 SH, Type F)
ECE 3886 Doctoral Research (8 QH)	ECE G868 Doctoral Research (8 SH, Type F)
ECE 3888 Master's Seminar 2 (2 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
ECE 3889 Doctoral Seminar (0 QH)	ECE G803 PhD Seminar (0 SH, Type F)
ECE 3890 Advanced Seminar (4 QH)	ECE G399 Advanced Seminar (4 SH, Type D)
ECE 3892 Doctoral Reading (0 QH)	ECE G860 PhD Reading (0 SH, Type F)
ECE 3893 Special Problems in Elec Eng'g (2 QH)	ECE G392 Spec Prob in Electrical Engr (2 SH, Type F)
ECE 3894 Engineer Degree Readings (4 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
ECE 3896 Special Problems in Elec Eng'g (4 QH)	ECE G394 Spec Prob in Electrical Engr (4 SH, Type F)

MIM—Mechanical, Industrial, and Manufacturing Engineering

MIM 3000 Math Methods for Mech Engrs (4 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with</i> MIM 3010 Numerical Methods in ME (4 QH) *	MTM G200 Math Methods for Mech Engineer (4 SH, Type A)
MIM 3005 Advanced Math Methods for ME (4 QH)	MTM G205 Advanced Methods of Mech Engr (4 SH, Type A)
MIM 3010 Numerical Methods in ME (4 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with</i> MIM 3000 Math Methods for Mech Engrs (4 QH) *	MTM G200 Math Methods for Mech Engineer (4 SH, Type A)
MIM 3030 Human Computer Interaction (4 QH)	CSE G280 Human-Computer Interaction (4 SH, Type A)
MIM 3102 Planning & Managing Info Sys Dev (4 QH)	ISY G245 Pln & Mng Info Systems Dev (4 SH, Type A)

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Quarter Course(s)	Equivalent Semester Course(s)
MIM 3103 Intro Formal Meth Software Eng'g (4 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
MIM 3104 Data Structures (4 QH)	ISY G205 Data Structures (4 SH, Type A)
MIM 3107 Operating Sys & Sys Software (4 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with MIM 3110</i> Computer Architecture (4 QH) *	ISY G220 Operating Sys & Comp Architect (4 SH, Type A)
MIM 3110 Computer Architecture (4 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with MIM 3107</i> Operating Sys & Sys Software (4 QH) *	ISY G220 Operating Sys & Comp Architect (4 SH, Type A)
MIM 3115 Intro Software Eng'g & Comp Tech (4 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with MIM 3122</i> PC Architecture & Sys Program (4 QH) *	ISY G215 Fund of Software Engr & Comp (4 SH, Type A)
MIM 3122 PC Architecture & Sys Program (4 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with MIM 3115</i> Intro Software Eng'g & Comp Tech (4 QH) *	ISY G215 Fund of Software Engr & Comp (4 SH, Type A)
MIM 3124 Software Engineering (4 QH)	CSE G230 Software Engineering (4 SH, Type A)
MIM 3126 Networks & Telecommunications (4 QH)	ISY G225 Networks, Telecom & Distr Sys (4 SH, Type A)
MIM 3128 Database Management Systems (4 QH)	ISY G210 Data Mgt and Database Design (4 SH, Type A)
MIM 3129 Expert Systems in Engineering (4 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with MIM 3315</i> Neural Networks in Manufacturing (4 QH) *	IEM G275 Expert Sys & Neural Networks (4 SH, Type A)
MIM 3130 Machine Intelligence (4 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
MIM 3132 C/UNIX for Information Systems (4 QH)	ISY G090 C/UNIX for Information Systems (4 SH, Type A)
MIM 3133 C++ & Object Oriented Design (4 QH)	ISY G240 C++ Object-Oriented Design (4 SH, Type A)
MIM 3137 Program Lang Software Eng'g (4 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
MIM 3140 Concepts Object-Oriented Design (4 QH)	CSE G200 Concepts of ObjectOriented Des (4 SH, Type A)
MIM 3141 Component Software Development (4 QH)	CSE G210 Component Software Development (4 SH, Type A)
MIM 3142 Building Virtual Environments (4 QH)	CSE G270 Building Virtual Environments (4 SH, Type A)
MIM 3143 Enterprise Software Development (4 QH)	CSE G220 Enterprise Software Dev (4 SH, Type A)
MIM 3152 Software Engineering Project 1 (4 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with MIM 3153</i> Software Eng'g Project 2 (4 QH) *	CSE G674 Software Engineering Project (4 SH, Type A)
MIM 3153 Software Eng'g Project 2 (4 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with MIM 3152</i> Software Engineering Project 1 (4 QH) *	CSE G674 Software Engineering Project (4 SH, Type A)
MIM 3204 Engineering Organization Psych (4 QH)	IEM G300 Engineering/Org Psychology (4 SH, Type A)
MIM 3207 Financial Management for Engrs (4 QH)	IEM G305 Financial Management for Engr (4 SH, Type A)
MIM 3215 Engineering Economy (4 QH)	IEM G225 Economic Decision Making (4 SH, Type A)
MIM 3217 Engineering Project Management (4 QH)	IEM G220 Engineering Project Management (4 SH, Type A)
MIM 3300 Manufacturing, Design & Computers (4 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with MIM 3375</i> Computer Aided Manufacturing (4 QH) *	CSE G260 Manufacturing Methods & Tech (4 SH, Type A)
MIM 3305 Manufacturing Methods & Process (4 QH)	IEM G255 Manufacturing Processes (4 SH, Type A)
MIM 3310 Computer Methods in Manufacturing (4 QH)	IEM G270 Intelligent Manufacturing (4 SH, Type A)
MIM 3315 Neural Networks in Manufacturing (4 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with MIM 3129</i> Expert Systems in Engineering (4 QH) *	IEM G275 Expert Sys & Neural Networks (4 SH, Type A)
MIM 3320 Advanced Production Analysis (4 QH)	IEM G210 Production Systems (4 SH, Type A)
MIM 3325 Robot Mechanics & Control (4 QH)	CSE G250 Robot Mechanics and Control (4 SH, Type A)
MIM 3350 Computer Aided Graphics & Design (4 QH)	CSE G240 CAD and Manufacturing (4 SH, Type A)
MIM 3375 Computer Aided Manufacturing (4 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with MIM 3300</i> Manufacturing, Design & Computers (4 QH) *	CSE G260 Manufacturing Methods & Tech (4 SH, Type A)
MIM 3400 Basic Probability & Statistics (4 QH)	IEM G200 Engineering Probs & Stats (4 SH, Type A)
MIM 3409 Design of Experiments (4 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with MIM 3423</i> Applied Statistics (4 QH) *	IEM G280 Stat Methods in Engineering (4 SH, Type A)
MIM 3416 Statistical Quality Control (4 QH)	IEM G285 Statistical Quality Control (4 SH, Type A)
MIM 3423 Applied Statistics (4 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with MIM 3409</i> Design of Experiments (4 QH) *	IEM G280 Stat Methods in Engineering (4 SH, Type A)

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Quarter Course(s)	Equivalent Semester Course(s)
MIM 3425 Intro Reliability Anly & Risk (4 QH)	IEM G290 Rel Anly & Risk Assessment (4 SH, Type A)
MIM 3435 Reliability Eng'g & Testing (4 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
MIM 3503 Simulation Methodology & Appl (4 QH)	IEM G215 Simulation Analysis (4 SH, Type A)
MIM 3510 Forecasting (4 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
MIM 3512 Inventory Theory (4 QH)	IEM G235 Inventory Theory (4 SH, Type A)
MIM 3513 Network Anly & Adv Linear Prog (4 QH)	IEM G245 Network Anly & Adv Lin Prog (4 SH, Type A)
MIM 3514 Logistics, Warehousing and Scheduling (4 QH)	IEM G310 Logistics, Warehouse&Schedule (4 SH, Type A)
MIM 3515 Queuing Theory (4 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with</i> MIM 3531 Operations Research 2 (4 QH) *	IEM G230 Probabilistic Operat Research (4 SH, Type A)
MIM 3524 Multi-Criteria Decision Making (4 QH)	IEM G250 Multi-Criteria Decision Making (4 SH, Type A)
MIM 3530 Operations Research 1 (4 QH)	IEM G205 Deterministics Ops Research (4 SH, Type A)
MIM 3531 Operations Research 2 (4 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with</i> MIM 3515 Queuing Theory (4 QH) *	IEM G230 Probabilistic Operat Research (4 SH, Type A)
MIM 3532 Operations Research 3 (4 QH)	IEM G240 Integer and Nonlinear Optimize (4 SH, Type A)
MIM 3600 Theory of Elasticity (4 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with</i> MIM 3680 Mechanics of Metal Forming Mfg (4 QH) *	MTM G210 Elasticity and Plasticity (4 SH, Type A)
MIM 3615 Theory of Plates and Shells (4 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with</i> MIM 3675 Advanced Mechanics of Material (4 QH) *	MTM G220 Advanced Mechanics of Material (4 SH, Type A)
MIM 3620 Mechanics of Composite Matls (4 QH)	MTM G240 Composite Materials (4 SH, Type A)
MIM 3625 Advanced Dynamics (4 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with</i> MIM 3630 Vibration Theory & Appls (4 QH) *	MTM G215 Dynamics & Mechanic Vibration (4 SH, Type A)
MIM 3630 Vibration Theory & Appls (4 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with</i> MIM 3625 Advanced Dynamics (4 QH) *	MTM G215 Dynamics & Mechanic Vibration (4 SH, Type A)
MIM 3650 Automatic Control Engineering (4 QH)	MTM G225 Control and Mechatronics (4 SH, Type A)
MIM 3665 Engineering Fracture Mechanics (4 QH)	MTM G245 Fracture Mech & Failure Anly (4 SH, Type A)
MIM 3675 Advanced Mechanics of Material (4 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with</i> MIM 3615 Theory of Plates and Shells (4 QH) *	MTM G220 Advanced Mechanics of Material (4 SH, Type A)
MIM 3680 Mechanics of Metal Forming Mfg (4 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with</i> MIM 3600 Theory of Elasticity (4 QH) *	MTM G210 Elasticity and Plasticity (4 SH, Type A)
MIM 3690 Finite Element Method (4 QH)	MTM G235 Finite Element Method (4 SH, Type A)
MIM 3700 General Thermodynamics (4 QH)	MTM G270 General Thermodynamics (4 SH, Type A)
MIM 3710 Statistical Thermodynamics (4 QH)	MTM G280 Statistical Thermodynamics (4 SH, Type A)
MIM 3720 Conductive Heat Transfer (4 QH)	MTM G285 Heat Con & Thermal Radiation (4 SH, Type A)
MIM 3725 Convective Heat Transfer (4 QH)	MTM G290 Convective Heat Transfer (4 SH, Type A)
MIM 3735 Solar Thermal Engineering 1 (4 QH)	MTM G320 Solar Thermal Engineering (4 SH, Type A)
MIM 3740 Heat Trans Proc Microelec Dev (4 QH)	MTM G315 Heat Trans Proc in MicroDevice (4 SH, Type A)
MIM 3750 Essentials of Fluid Dynamics (4 QH)	MTM G275 Essentials of Fluid Dynamics (4 SH, Type A)
MIM 3755 Two Phase Flow (4 QH)	MTM G325 Two Phase Flow (4 SH, Type A)
MIM 3760 Viscous Flow (4 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
MIM 3765 Gas Dynamics (4 QH)	MTM G295 Gas Dynamics (4 SH, Type A)
MIM 3770 Computational Fluid Dynamics (4 QH)	MTM G310 Comp Fluid Dy w/ Heat Transfer (4 SH, Type A)
MIM 3775 Turbo Machinery Design (4 QH)	MTM G340 Turbomachinery Design (4 SH, Type A)
MIM 3780 Aerosol Mechanics (4 QH)	MTM G335 Aerosol Mechanics (4 SH, Type A)
MIM 3785 Turbulent Flow (4 QH)	MTM G330 Turbulent Flow (4 SH, Type A)
MIM 3790 Macroscopic Transport Matl Pro (4 QH)	MTM G345 Macro Tran in Material Process (4 SH, Type A)
MIM 3792 Fundamentals of Combustion (4 QH)	MTM G305 Fundamentals of Combustion (4 SH, Type A)
MIM 3795 Combustion & Air Pollution (4 QH)	MTM G300 Combustion and Air Pollution (4 SH, Type A)
MIM 3800 Strengthening Mechanisms (4 QH)	MTM G350 Mech Behav & Strength Mechs (4 SH, Type A)
MIM 3805 Advanced Physical Metallurgy 2 (2 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
MIM 3806 Phase Transformations (4 QH)	MTM G360 Kinetics of Phase Transform (4 SH, Type A)
MIM 3815 Powder Metallurgy (2 QH)	<i>No semester equivalent. Converts to departmental credit.</i>

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Quarter Course(s)	Equivalent Semester Course(s)
MIM 3816 Powder Metallurgy (4 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with MIM 3869</i> Ceramics Processing (4 QH) *	MTM G380 Particulate Materials Process (4 SH, Type A)
MIM 3820 Thermodynamics of Materials (4 QH)	MTM G355 Thermodynamics of Materials (4 SH, Type A)
MIM 3825 Electronic Behavior 1 (4 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with MIM 3830</i> Electronic Behavior 2 (2 QH) *	MTM G365 Prop & Proc of Elec Materials (4 SH, Type A)
MIM 3830 Electronic Behavior 2 (2 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with MIM 3825</i> Electronic Behavior 1 (4 QH) *	MTM G365 Prop & Proc of Elec Materials (4 SH, Type A)
MIM 3835 Corrosion 1 (2 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
MIM 3839 Environmental Issues in Mfg (4 QH)	MTM G370 Envir Issues in Mfg & Prod Use (4 SH, Type A)
MIM 3840 Corrosion 2 (2 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
MIM 3841 Corrosion of Materials (4 QH)	MTM G375 Corrosion of Materials (4 SH, Type A)
MIM 3855 Intro Diffraction Meth Mat Sci (2 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
MIM 3860 Ceramics Processing 1 (2 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
MIM 3869 Ceramics Processing (4 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with MIM 3816</i> Powder Metallurgy (4 QH) *	MTM G380 Particulate Materials Process (4 SH, Type A)
MIM 3870 Struct & Prop Polymeric Matls 1 (2 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
MIM 3880 Struct & Prop Polymeric Matls (4 QH)	MTM G385 Struct, Prop & Proc Poly Mat (4 SH, Type A)
MIM 3900 Independent Study (2 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
MIM 3905 Independent Study (4 QH)	MTM G404 Independent Study (4 SH, Type G)
MIM 3910 Special Topics (2 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
MIM 3915 Special Topics (4 QH)	CSE G374 Special Topics in CSE (4 SH, Type A) or IEM G265 Mass Customization (4 SH, Type A) or IEM G374 Special Topics in IEM (4 SH, Type A) or MTM G374 Special Topics in MTM (4 SH, Type A)
MIM 3925 Master's Thesis (2 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
MIM 3930 Master's Thesis (4 QH)	MTM G684 Thesis (4 SH, Type A)
MIM 3935 Master's Thesis (8 QH)	MTM G688 Thesis (8 SH, Type A)
MIM 3940 Master's Continuation (0 QH)	MTM G699 Thesis Continuation (0 SH, Type A)
MIM 3945 Master's Degree Project (4 QH)	IEM G674 Master's Project (4 SH, Type A)
MIM 3970 Engineer Degree Continuation (0 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
MIM 3980 Doctoral Reading (2 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
MIM 3985 PhD Dissertation (0 QH)	MTM G890 Dissertation (0 SH, Type A)
MIM 3990 PhD Continuation (0 QH)	MTM G899 Dissertation Continuation (0 SH, Type A)

TSM—Telecommunication Systems Management

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

Credit hours: SH = Semester hours QH = Quarter hours * = Will result in excess semester credit
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.