

# Semester Course Content Equivalencies Handbook

## Lowell Institute School

### Quarter to Semester Course Content Equivalencies Table

**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/how2lis.pdf](http://www.registrar.neu.edu/how2lis.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)
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### CT—Computer Technology

<b>CT 4150</b> Computer Organization (4 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with CT 4374</i> Intro to CPU Hardware (4 QH) *	<b>CET E311</b> Computer Organization (4 SH, Type A)
<b>CT 4200</b> Computer Technology Fundamentals <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<b>CT 4211</b> CCNA Introduction (4 QH)	<b>CET E431</b> CCNA Introduction (4 SH, Type A)
<b>CT 4212</b> CCNA Protocols & Routing (4 QH)	<b>CET E433</b> CCNA Protocols 1/LAN (4 SH, Type A)
<b>CT 4213</b> CCNA WAN Protocols & VPNS (4 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with CT 4214</i> CCNA TCP/IP Networking (4 QH) *	<b>CET E435</b> CCNA Protocols 2/WAN (4 SH, Type A)

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<b>Quarter Course(s)</b>	<b>Equivalent Semester Course(s)</b>
<b>CT 4214</b> CCNA TCP/IP Networking (4 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with CT 4213</i> CCNA WAN Protocols & VPNS (4 QH) *	<b>CET E435</b> CCNA Protocols 2/WAN (4 SH, Type A)
<b>CT 4215</b> CCNA Cisco Routers (4 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with CT 4216</i> CCNA Protocol Configuration (4 QH) *	<b>CET E437</b> CCNA Security and VPN (4 SH, Type A)
<b>CT 4216</b> CCNA Protocol Configuration (4 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with CT 4215</i> CCNA Cisco Routers (4 QH) *	<b>CET E437</b> CCNA Security and VPN (4 SH, Type A)
<b>CT 4217</b> CCNA Network Design & Verification (4 QH)	<b>CET E439</b> CCNA Network Design & Verif (4 SH, Type A)
<b>CT 4221</b> MCSE Fundamentals (4 QH)	<b>CET E421</b> MCSE Prof Admin (4 SH, Type A)
<b>CT 4222</b> MCSE Server Administration (4 QH)	<b>CET E423</b> MCSE Server Administration (4 SH, Type A)
<b>CT 4223</b> MCSE Network Administration (4 QH)	<b>CET E425</b> MCSE Network Administration (4 SH, Type A)
<b>CT 4224</b> MCSE Directory Services Administration (4 QH)	<b>CET E427</b> MCSE Directory Services Admin (4 SH, Type A)
<b>CT 4225</b> MCSE Network Designer (4 QH)	<b>CET E429</b> MCSE Network Design (4 SH, Type A)
<b>CT 4231</b> Oracle SQL Programming (4 QH)	<b>CET E441</b> Oracle SQL Programming (4 SH, Type A)
<b>CT 4232</b> Oracle Database Fundamentals (4 QH)	<b>CET E443</b> Oracle Fundamentals 1 (4 SH, Type A)
<b>CT 4241</b> A+ Core Hardware Servicing (4 QH)	<b>CET E411</b> A+ Core Hardware Servicing (4 SH, Type A)
<b>CT 4242</b> A+ Operating Systems Tech (4 QH)	<b>CET E413</b> A+ Operating Sys Technology (4 SH, Type A)
<b>CT 4311</b> Intermediate C++ Programming (4 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with GET 4100</i> Introductory C++ Programming (4 QH) *	<b>CET E301</b> Intro to C++ Programming (4 SH, Type A)
<b>CT 4322</b> Java Programming (4 QH)	<b>CET E326</b> Java Programming (4 SH, Type A)
<b>CT 4323</b> Perl Programming (4 QH)	<b>CET E324</b> Perl Programming (4 SH, Type A)
<b>CT 4330</b> Data Structures (4 QH)	<b>CET E306</b> C++/Data Structures (4 SH, Type A)
<b>CT 4335</b> Numerical Methods (4 QH)	<b>CET E335</b> Numerical Methods (4 SH, Type A)
<b>CT 4340</b> Software Engineering Design (4 QH)	<b>CET E321</b> Software Engineering (4 SH, Type A)
<b>CT 4345</b> Assembly Language (4 QH)	<b>CET E331</b> Assembly Language (4 SH, Type A)
<b>CT 4348</b> LISP (4 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
<b>CT 4351</b> Adv Computer Organization (4 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with CT 4356</i> Complex Peripheral Hardware (4 QH) *	<b>CET E651</b> Advanced Computer Concepts (4 SH, Type A)
<b>CT 4355</b> Micro Peripheral Hardware (4 QH)	<b>CET E350</b> Embed Microcomp Syst 1 (4 SH, Type A)

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<b>Quarter Course(s)</b>	<b>Equivalent Semester Course(s)</b>
<b>CT 4356</b> Complex Peripheral Hardware (4 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with CT 4351</i> Adv Computer Organization (4 QH) *	<b>CET E651</b> Advanced Computer Concepts (4 SH, Type A)
<b>CT 4360</b> Industry Software (4 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
<b>CT 4361</b> Windows NT (4 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
<b>CT 4365</b> Industry Hardware (4 QH)	<b>CET E546</b> Industry Hardware (4 SH, Type A)
<b>CT 4366</b> Digital Circuit Computer Simulation (4 QH)	<b>CET E511</b> Digital Circuit Comp Simulatn (4 SH, Type A)
<b>CT 4369</b> Digital Electronics Design (4 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
<b>CT 4370</b> Computer Lab 1 (2 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
<b>CT 4371</b> Computer Lab 2 (2 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
<b>CT 4374</b> Intro to CPU Hardware (4 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with CT 4150</i> Computer Organization (4 QH) *	<b>CET E311</b> Computer Organization (4 SH, Type A)
<b>CT 4375</b> CPU Architecture (4 QH)	<b>CET E521</b> Computer Architecture (4 SH, Type A)
<b>CT 4377</b> Digital Integrated Circuit Design (4 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
<b>CT 4380</b> Data Communication Methods (4 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with CT 4480</i> Local Area Networks 1 (4 QH) *	<b>CET E531</b> Data Communications & Networks (4 SH, Type A)
<b>CT 4381</b> Operating Systems (4 QH)	<b>CET E551</b> Operating Systems (4 SH, Type A)
<b>CT 4383</b> Databases (4 QH)	<b>CET E383</b> Databases (4 SH, Type A)
<b>CT 4389</b> Single Chip Microprocessors (4 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
<b>CT 4390</b> Special Problems Computer Tech (4 QH) <i>with CT 4391</i> Topics in Computer Technology (4 QH) *	<b>CET E480</b> Topics in CET (4 SH, Type A)
<i>alone</i>	<b>CET E480</b> Topics in CET (4 SH, Type A)
<b>CT 4391</b> Topics in Computer Technology (4 QH) <i>with CT 4390</i> Special Problems Computer Tech (4 QH) *	<b>CET E480</b> Topics in CET (4 SH, Type A)
<i>alone</i>	<b>CET E480</b> Topics in CET (4 SH, Type A)
<b>CT 4393</b> UNIX Operating System (4 QH)	<b>CET E556</b> UNIX Operating System (4 SH, Type A)
<b>CT 4394</b> Object Oriented Programming (4 QH)	<b>CET E394</b> Object-Oriented Programming (4 SH, Type A)
<b>CT 4395</b> Computer Security (4 QH)	<b>CET E560</b> Computer Security (4 SH, Type A)
<b>CT 4397</b> Advanced UNIX Programming (4 QH)	<b>CET E558</b> Systems Level Programming (4 SH, Type A)
<b>CT 4480</b> Local Area Networks 1 (4 QH) <i>with CT 4380</i> Data Communication Methods (4 QH) *	<b>CET E531</b> Data Communications & Networks (4 SH, Type A)
<i>alone</i>	<b>CET E536</b> Advanced Networking Concepts (4 SH, Type A)
<b>CT 4481</b> Local Area Networks 2 (4 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
<b>CT 4492</b> Independent Study (4 QH) <i>alone or with CT 4493</i>	<b>CET E924</b> Directed Study (4 SH, Type F)
<b>CT 4493</b> Independent Study (4 QH) <i>alone or with CT 4492</i>	<b>CET E924</b> Directed Study (4 SH, Type F)

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Quarter Course(s)	Equivalent Semester Course(s)
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## EET—Electrical Engineering Technology

<b>EET 4124</b> Circuits Lab 1 (2 QH) <i>alone</i> with <b>EET 4151</b> Circuit Analysis 1 (4 QH) and <b>EET 4152</b> Circuit Analysis 2 (4 QH) *	<i>No semester equivalent. Converts to departmental credit.</i> <b>EET E201</b> Circuit Analysis 1 (4 SH, Type A)
<b>EET 4125</b> Circuits Lab 2 (2 QH) <i>alone</i> with <b>EET 4353</b> Circuit Analysis 3 (4 QH) and <b>EET 4354</b> Circuit Analysis 4 (4 QH) *	<i>No semester equivalent. Converts to departmental credit.</i> <b>EET E301</b> Circuit Analysis 2 (4 SH, Type A)
<b>EET 4151</b> Circuit Analysis 1 (4 QH) <i>alone</i> with <b>EET 4124</b> Circuits Lab 1 (2 QH) and <b>EET 4152</b> Circuit Analysis 2 (4 QH) *	<i>No semester equivalent. Converts to departmental credit.</i> <b>EET E201</b> Circuit Analysis 1 (4 SH, Type A)
<b>EET 4152</b> Circuit Analysis 2 (4 QH) <i>alone</i> with <b>EET 4124</b> Circuits Lab 1 (2 QH) and <b>EET 4151</b> Circuit Analysis 1 (4 QH) *	<i>No semester equivalent. Converts to departmental credit.</i> <b>EET E201</b> Circuit Analysis 1 (4 SH, Type A)
<b>EET 4310</b> Electrical Measurements (4 QH)	<b>EET E331</b> Electrical Measurements (4 SH, Type A)
<b>EET 4311</b> Digital Electronics 1 (4 QH) <i>alone</i> with <b>EET 4314</b> Digital Electronics 2 (4 QH) and <b>EET 4327</b> Advanced Electronics Lab 1 (2 QH) and <b>EET 4328</b> Advanced Electronics Lab 2 (2 QH) *	<i>No semester equivalent. Converts to departmental credit.</i> <b>EET E321</b> Digital Electronics 1 (4 SH, Type A)
<b>EET 4312</b> Analog Electronics 1 (4 QH) <i>alone</i> with <b>EET 4323</b> Electronics Lab (2 QH) *	<i>No semester equivalent. Converts to departmental credit.</i> <b>EET E311</b> Analog Electronics 1 (4 SH, Type A)
<b>EET 4313</b> Analog Electronics 2 (4 QH)	<b>EET E316</b> Analog Electronics 2 (4 SH, Type A)
<b>EET 4314</b> Digital Electronics 2 (4 QH) <i>alone</i> with <b>EET 4311</b> Digital Electronics 1 (4 QH) and <b>EET 4327</b> Advanced Electronics Lab 1 (2 QH) and <b>EET 4328</b> Advanced Electronics Lab 2 (2 QH) *	<i>No semester equivalent. Converts to departmental credit.</i> <b>EET E321</b> Digital Electronics 1 (4 SH, Type A)
<b>EET 4315</b> Digital Electronics 3 (4 QH)	<b>EET E326</b> Digital Electronics 2 (4 SH, Type A)
<b>EET 4317</b> Princ of Communication Sys 1 (4 QH) <i>alone</i> with <b>EET 4318</b> Princ of Communication Sys 2 (4 QH) *	<i>No semester equivalent. Converts to departmental credit.</i> <b>EET E551</b> Communication Systems 1 (4 SH, Type A)
<b>EET 4318</b> Princ of Communication Sys 2 (4 QH) <i>alone</i> with <b>EET 4317</b> Princ of Communication Sys 1 (4 QH) *	<i>No semester equivalent. Converts to departmental credit.</i> <b>EET E551</b> Communication Systems 1 (4 SH, Type A)
<b>EET 4319</b> Princ of Communication Sys 3 (4 QH)	<b>EET E554</b> Communication Systems 2 (4 SH, Type A)
<b>EET 4320</b> Electricity & Electronics (4 QH)	<b>EET E201</b> Circuit Analysis 1 (4 SH, Type A)
<b>EET 4323</b> Electronics Lab (2 QH) <i>alone</i> with <b>EET 4312</b> Analog Electronics 1 (4 QH) *	<i>No semester equivalent. Converts to departmental credit.</i> <b>EET E311</b> Analog Electronics 1 (4 SH, Type A)
<b>EET 4324</b> Circuits Laboratory 1 (2 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
<b>EET 4325</b> Circuits Laboratory 21 (2 QH)	<i>No semester equivalent. Converts to departmental credit.</i>

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<b>Quarter Course(s)</b>	<b>Equivalent Semester Course(s)</b>
<b>EET 4327</b> Advanced Electronics Lab 1 (2 QH) <i>alone</i> ----- with <b>EET 4311</b> Digital Electronics 1 (4 QH) and <b>EET 4314</b> Digital Electronics 2 (4 QH) and <b>EET 4328</b> Advanced Electronics Lab 2 (2 QH) *	<i>No semester equivalent. Converts to departmental credit.</i>  <b>EET E321</b> Digital Electronics 1 (4 SH, Type A)
<b>EET 4328</b> Advanced Electronics Lab 2 (2 QH) <i>alone</i> ----- with <b>EET 4311</b> Digital Electronics 1 (4 QH) and <b>EET 4314</b> Digital Electronics 2 (4 QH) and <b>EET 4327</b> Advanced Electronics Lab 1 (2 QH) *	<i>No semester equivalent. Converts to departmental credit.</i>  <b>EET E321</b> Digital Electronics 1 (4 SH, Type A)
<b>EET 4329</b> Advanced Electronics Lab 3 (2 QH) <i>alone</i> ----- with <b>EET 4337</b> Distributed Systems (4 QH) *	<i>No semester equivalent. Converts to departmental credit.</i>  <b>EET E558</b> Distributive Systems (4 SH, Type A)
<b>EET 4330</b> Energy Conversion (4 QH)	<b>EET E341</b> Energy Conversion (4 SH, Type A)
<b>EET 4337</b> Distributed Systems (4 QH) <i>alone</i> ----- with <b>EET 4329</b> Advanced Electronics Lab 3 (2 QH) *	<i>No semester equivalent. Converts to departmental credit.</i>  <b>EET E558</b> Distributive Systems (4 SH, Type A)
<b>EET 4353</b> Circuit Analysis 3 (4 QH) <i>alone</i> ----- with <b>EET 4125</b> Circuits Lab 2 (2 QH) and <b>EET 4354</b> Circuit Analysis 4 (4 QH) *	<i>No semester equivalent. Converts to departmental credit.</i>  <b>EET E301</b> Circuit Analysis 2 (4 SH, Type A)
<b>EET 4354</b> Circuit Analysis 4 (4 QH) <i>alone</i> ----- with <b>EET 4125</b> Circuits Lab 2 (2 QH) and <b>EET 4353</b> Circuit Analysis 3 (4 QH) *	<i>No semester equivalent. Converts to departmental credit.</i>  <b>EET E301</b> Circuit Analysis 2 (4 SH, Type A)
<b>EET 4362</b> Basic Power Systems 1 (4 QH) <i>alone</i> ----- with <b>EET 4363</b> Basic Power Systems 2 (4 QH) *	<i>No semester equivalent. Converts to departmental credit.</i>  <b>EET E346</b> Basic Power Systems 1 (4 SH, Type A)
<b>EET 4363</b> Basic Power Systems 2 (4 QH) <i>alone</i> ----- with <b>EET 4362</b> Basic Power Systems 1 (4 QH) *	<i>No semester equivalent. Converts to departmental credit.</i>  <b>EET E346</b> Basic Power Systems 1 (4 SH, Type A)
<b>EET 4364</b> Basic Power Systems 3 (4 QH)	<b>EET E350</b> Basic Power Systems 2 (4 SH, Type A)
<b>EET 4365</b> Basic Power Systems Relay Engineering (4 QH)	<b>EET E354</b> Relay Engineering (4 SH, Type A)
<b>EET 4366</b> Analog Circuit Computer Simulation (4 QH)	<b>EET E511</b> Analog Circuit Computer Sim (4 SH, Type A)
<b>EET 4368</b> Industrial Control Systems 1 (4 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
<b>EET 4369</b> Industrial Control Systems 2 (4 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
<b>EET 4370</b> Digital Computers 1 (4 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
<b>EET 4371</b> Digital Computers 2 (4 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
<b>EET 4377</b> Control Engineering 1 (4 QH) <i>alone</i> ----- with <b>EET 4378</b> Control Engineering 2 (4 QH) *	<i>No semester equivalent. Converts to departmental credit.</i>  <b>EET E561</b> Control Engineering (4 SH, Type A)

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<b>EET 4378</b> Control Engineering 2 (4 QH) alone ----- with <b>EET 4377</b> Control Engineering 1 (4 QH) *	No semester equivalent. Converts to departmental credit. ----- <b>EET E561</b> Control Engineering (4 SH, Type A)
<b>EET 4390</b> Optical Instrumentation (4 QH)	No semester equivalent. Converts to departmental credit.
<b>EET 4391</b> Basic Optics & Optical Syst Design (4 QH) alone ----- with <b>EET 4393</b> Applied Wave Optics (4 QH) *	No semester equivalent. Converts to departmental credit. ----- <b>EET E372</b> Optical Systems (4 SH, Type A)
<b>EET 4392</b> Applied Photonics for Engineer (4 QH)	<b>EET E370</b> Applied Photonics (4 SH, Type A)
<b>EET 4393</b> Applied Wave Optics (4 QH) alone ----- with <b>EET 4391</b> Basic Optics & Optical Syst Design (4 QH) *	No semester equivalent. Converts to departmental credit. ----- <b>EET E372</b> Optical Systems (4 SH, Type A)
<b>EET 4399</b> Special Problems - EE Tech (4 QH)	<b>EET E480</b> Topics in EET (4 SH, Type A)

## GET—General Engineering Technology

<b>GET 4100</b> Introductory C++ Programming (4 QH) alone ----- with <b>CT 4311</b> Intermediate C++ Programming (4 QH) *	No semester equivalent. Converts to departmental credit. ----- <b>CET E301</b> Intro to C++ Programming (4 SH, Type A)
<b>GET 4102</b> Eng'g Technology & Design (4 QH)	No semester equivalent. Converts to departmental credit.
<b>GET 4104</b> Introduction to Product Design (4 QH)	<b>GET E681</b> Capstone Preparation (2 SH, Type A)
<b>GET 4105</b> Computer Applications for Tech (4 QH)	<b>GET E121</b> Computer Apps for Technology (4 SH, Type A)
<b>GET 4115</b> The Complete CorelDraw (4 QH)	No semester equivalent. Converts to departmental credit.
<b>GET 4118</b> Survey of Computer Networking (4 QH)	No semester equivalent. Converts to departmental credit.
<b>GET 4145</b> AutoCAD 1 (4 QH) with <b>GET 4155</b> AutoCAD 1 (4 QH) *	<b>GET E155</b> AutoCAD 1 (4 SH, Type A)
----- alone	<b>GET E155</b> AutoCAD 1 (4 SH, Type A)
<b>GET 4146</b> AutoCAD 2 (4 QH) with <b>GET 4156</b> AutoCAD 2 (4 QH) *	<b>GET E157</b> AutoCAD 2 (4 SH, Type A)
----- alone	<b>GET E157</b> AutoCAD 2 (4 SH, Type A)
<b>GET 4155</b> AutoCAD 1 (4 QH) with <b>GET 4145</b> AutoCAD 1 (4 QH) *	<b>GET E155</b> AutoCAD 1 (4 SH, Type A)
----- alone	<b>GET E155</b> AutoCAD 1 (4 SH, Type A)
<b>GET 4156</b> AutoCAD 2 (4 QH) with <b>GET 4146</b> AutoCAD 2 (4 QH) *	<b>GET E157</b> AutoCAD 2 (4 SH, Type A)
----- alone	<b>GET E157</b> AutoCAD 2 (4 SH, Type A)
<b>GET 4170</b> Engineering Graphics 1 (4 QH)	<b>GET E131</b> Engineering Graphics 1 (4 SH, Type A)
<b>GET 4171</b> Engineering Graphics 2 (4 QH)	<b>GET E331</b> Engineering Graphics 2 (4 SH, Type A)
<b>GET 4173</b> AutoCAD for Architects & Engrs (4 QH)	<b>GET E373</b> AutoCAD for Arch & Engineers (4 SH, Type A)
<b>GET 4174</b> AutoCAD Solids Modeling (4 QH)	<b>GET E375</b> AutoCAD Solids Modeling (4 SH, Type A)
<b>GET 4176</b> Geometric Dimensioning & Tolerance (4 QH)	<b>GET E336</b> Geo Dimensioning & Tolerancing (4 SH, Type A)

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<b>GET 4200</b> Visual Basic Programming (4 QH)	<b>CET E201</b> Visual Basic Programming (4 SH, Type A)
<b>GET 4201</b> Adv Visual Basic Programming (4 QH)	<b>CET E401</b> Adv Visual Basic Programming (4 SH, Type A)
<b>GET 4306</b> Technical Communications (3 QH)	<b>GET E341</b> Technical Communications (3 SH, Type A)
<b>GET 4356</b> Engineering Economy (4 QH)	<b>GET E114</b> Engineering Economy (4 SH, Type A)
<b>GET 4364</b> Kinematics (4 QH)	<b>MET E364</b> Kinematics (4 SH, Type A)

## MET—Mechanical Engineering Technology

<b>MET 4301</b> Mechanics A (4 QH) alone	<i>No semester equivalent. Converts to departmental credit.</i>
with <b>MET 4302</b> Mechanics B (4 QH) *	<b>MET E201</b> Statics (4 SH, Type A)
<b>MET 4302</b> Mechanics B (4 QH) alone	<i>No semester equivalent. Converts to departmental credit.</i>
with <b>MET 4301</b> Mechanics A (4 QH) *	<b>MET E201</b> Statics (4 SH, Type A)
<b>MET 4303</b> Mechanics C (4 QH)	<b>MET E301</b> Dynamics (4 SH, Type A)
<b>MET 4314</b> Stress Analysis A (4 QH) alone	<i>No semester equivalent. Converts to departmental credit.</i>
with <b>MET 4315</b> Stress Analysis B (4 QH) and <b>MET 4391</b> Mechanics Lab (2 QH) *	<b>MET E311</b> Stress Analysis (4 SH, Type A)
<b>MET 4315</b> Stress Analysis B (4 QH) alone	<i>No semester equivalent. Converts to departmental credit.</i>
with <b>MET 4314</b> Stress Analysis A (4 QH) and <b>MET 4391</b> Mechanics Lab (2 QH) *	<b>MET E311</b> Stress Analysis (4 SH, Type A)
<b>MET 4319</b> Mechanics (4 QH)	<b>MET E201</b> Statics (4 SH, Type A)
<b>MET 4330</b> Mechanical Design A (4 QH) alone	<i>No semester equivalent. Converts to departmental credit.</i>
with <b>MET 4331</b> Mechanical Design B (4 QH) and <b>MET 4333</b> Design Laboratory (2 QH) *	<b>MET E651</b> Mechanical Design (4 SH, Type A)
with <b>MET 4331</b> Mechanical Design B (4 QH) and <b>MET 4395</b> Mechanical Projects Lab (2 QH) *	<b>MET E651</b> Mechanical Design (4 SH, Type A)
<b>MET 4331</b> Mechanical Design B (4 QH) alone	<i>No semester equivalent. Converts to departmental credit.</i>
with <b>MET 4330</b> Mechanical Design A (4 QH) and <b>MET 4333</b> Design Laboratory (2 QH) *	<b>MET E651</b> Mechanical Design (4 SH, Type A)
with <b>MET 4330</b> Mechanical Design A (4 QH) and <b>MET 4395</b> Mechanical Projects Lab (2 QH) *	<b>MET E651</b> Mechanical Design (4 SH, Type A)
<b>MET 4333</b> Design Laboratory (2 QH) alone	<i>No semester equivalent. Converts to departmental credit.</i>
with <b>MET 4330</b> Mechanical Design A (4 QH) and <b>MET 4331</b> Mechanical Design B (4 QH) *	<b>MET E651</b> Mechanical Design (4 SH, Type A)
<b>MET 4340</b> Thermodynamics A (4 QH) alone	<i>No semester equivalent. Converts to departmental credit.</i>
with <b>MET 4341</b> Thermodynamics B (4 QH) and <b>MET 4393</b> Thermal Analysis Lab (2 QH) *	<b>MET E321</b> Thermodynamics (4 SH, Type A)
<b>MET 4341</b> Thermodynamics B (4 QH) alone	<i>No semester equivalent. Converts to departmental credit.</i>
with <b>MET 4340</b> Thermodynamics A (4 QH) and <b>MET 4393</b> Thermal Analysis Lab (2 QH) *	<b>MET E321</b> Thermodynamics (4 SH, Type A)
<b>MET 4342</b> Refrigeration & Air Condition (4 QH)	<b>MET E526</b> Heating, Ventilation and AC (4 SH, Type A)

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<b>Quarter Course(s)</b>	<b>Equivalent Semester Course(s)</b>
<b>MET 4343</b> Heat Transfer (4 QH)	<b>MET E521</b> Heat Transfer (4 SH, Type A)
<b>MET 4370</b> Fluid Mechanics A (4 QH)	No semester equivalent. Converts to departmental credit.
<b>MET 4371</b> Fluid Mechanics B (4 QH)	No semester equivalent. Converts to departmental credit.
<b>MET 4373</b> Fluid Mechanics (4 QH) <i>alone</i>	No semester equivalent. Converts to departmental credit.
----- with <b>MET 4392</b> Fluid Mechanics Lab (2 QH) *	<b>MET E531</b> Fluid Mechanics (4 SH, Type A)
<b>MET 4380</b> Materials A (4 QH) <i>alone</i>	No semester equivalent. Converts to departmental credit.
----- with <b>MET 4481</b> Materials B (4 QH) *	<b>MET E341</b> Materials (4 SH, Type A)
<b>MET 4385</b> Pro/Engineer (4 QH)	No semester equivalent. Converts to departmental credit.
<b>MET 4388</b> Measurements & Analysis (5 QH)	<b>MET E351</b> Measurement & Analysis (4 SH, Type A)
<b>MET 4390</b> Measurement & Analysis Lab (2 QH)	No semester equivalent. Converts to departmental credit.
<b>MET 4391</b> Mechanics Lab (2 QH) <i>alone</i>	No semester equivalent. Converts to departmental credit.
----- with <b>MET 4314</b> Stress Analysis A (4 QH) and <b>MET 4315</b> Stress Analysis B (4 QH) *	<b>MET E311</b> Stress Analysis (4 SH, Type A)
<b>MET 4392</b> Fluid Mechanics Lab (2 QH) <i>alone</i>	No semester equivalent. Converts to departmental credit.
----- with <b>MET 4373</b> Fluid Mechanics (4 QH) *	<b>MET E531</b> Fluid Mechanics (4 SH, Type A)
<b>MET 4393</b> Thermal Analysis Lab (2 QH) <i>alone</i>	No semester equivalent. Converts to departmental credit.
----- with <b>MET 4340</b> Thermodynamics A (4 QH) and <b>MET 4341</b> Thermodynamics B (4 QH) *	<b>MET E321</b> Thermodynamics (4 SH, Type A)
<b>MET 4394</b> Technology Lab D (2 QH)	No semester equivalent. Converts to departmental credit.
<b>MET 4395</b> Mechanical Projects Lab (2 QH) <i>alone</i>	No semester equivalent. Converts to departmental credit.
----- with <b>MET 4330</b> Mechanical Design A (4 QH) and <b>MET 4331</b> Mechanical Design B (4 QH) *	<b>MET E651</b> Mechanical Design (4 SH, Type A)
<b>MET 4414</b> Mechanical Vibrations (4 QH)	<b>MET E414</b> Mechanical Vibrations (4 SH, Type A)
<b>MET 4444</b> Power Generation (4 QH)	<b>MET E444</b> Power Generation (4 SH, Type A)
<b>MET 4481</b> Materials B (4 QH) <i>alone</i>	No semester equivalent. Converts to departmental credit.
----- with <b>MET 4380</b> Materials A (4 QH) *	<b>MET E341</b> Materials (4 SH, Type A)
<b>MET 4482</b> Applied Metallurgy (4 QH)	<b>MET E482</b> Applied Metallurgy (4 SH, Type A)
<b>MET 4499</b> Special Problems - ME Tech (4 QH)	<b>MET E480</b> Topics in MET (4 SH, Type A)

## MFG—Manufacturing Engineering Technology

<b>MFG 4312</b> Mfg Materials & Processes 2 (4 QH)	No semester equivalent. Converts to departmental credit.
<b>MFG 4321</b> Computer-Aided Manufacturing 1 (4 QH) <i>alone</i>	No semester equivalent. Converts to departmental credit.
----- with <b>MFG 4322</b> Computer-Aided Manufacturing 2 (4 QH) *	<b>MFG E311</b> Computer-Aided Manufacturing (4 SH, Type A)
<b>MFG 4322</b> Computer-Aided Manufacturing 2 (4 QH) <i>alone</i>	No semester equivalent. Converts to departmental credit.
----- with <b>MFG 4321</b> Computer-Aided Manufacturing 1 (4 QH) *	<b>MFG E311</b> Computer-Aided Manufacturing (4 SH, Type A)
<b>MFG 4331</b> Computer Methods - Mfg Design 1 (4 QH) <i>alone</i>	No semester equivalent. Converts to departmental credit.
----- with <b>MFG 4332</b> Computer Methods - Mfg Design 2 (4 QH) *	<b>MFG E321</b> Comp Meth in Manuf Design (4 SH, Type A)

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Quarter Course(s)	Equivalent Semester Course(s)
<b>MFG 4332</b> Computer Methods - Mfg Design 2 (4 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with</i> <b>MFG 4331</b> Computer Methods - Mfg Design 1 (4 QH) *	<b>MFG E321</b> Comp Meth in Manuf Design (4 SH, Type A)
<b>MFG 4341</b> Computer Aided Design (4 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
<b>MFG 4351</b> Assembly Automation (4 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
<b>MFG 4361</b> Numerical Controlled Machines (4 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
<b>MFG 4371</b> Robotics (4 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
<b>MFG 4381</b> Plant Layout & Design (4 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
<b>MFG 4385</b> TQM: ISO - 9000 & Quality Mgmt (4 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
<b>MFG 4390</b> Special Topics in Manufacturing Technology (4 QH)	<b>MFG E480</b> Topics in Manufacturing Tech (4 SH, Type A)
<b>MFG 4391</b> Independent Study in Mfg Tech (4 QH)	<b>MFG E582</b> IS in Manufacturing Technology (4 SH, Type A)

## MTH—Mathematics

<b>MTH 4006</b> Technical Mathematics (4 QH)	<i>No semester equivalent. Converts to departmental credit.</i>
<b>MTH 4107</b> College Algebra (4 QH)	<b>MTH E110</b> College Algebra (4 SH, Type A)
<b>MTH 4108</b> Pre-Calculus (4 QH)	<b>MTH E121</b> Pre-Calculus (4 SH, Type A)
<b>MTH 4120</b> Calculus 1 (4 QH)	<b>MTH E241</b> Calculus 1 (4 SH, Type A)
<b>MTH 4121</b> Calculus 2 (4 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with</i> <b>MTH 4122</b> Calculus 3 (4 QH) *	<b>MTH E243</b> Calculus 2 (4 SH, Type A)
<b>MTH 4122</b> Calculus 3 (4 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with</i> <b>MTH 4121</b> Calculus 2 (4 QH) *	<b>MTH E243</b> Calculus 2 (4 SH, Type A)
<b>MTH 4123</b> Differential Equations (4 QH)	<b>EET E336</b> Engineering Analysis (4 SH, Type A)
<b>MTH 4196</b> Intro Stats/Diffrentl Equations (4 QH)	<i>No semester equivalent. Converts to departmental credit.</i>

## PHY—Physics

<b>PHY 4101</b> College Physics 1 (4 QH)	<b>PHY E101</b> College Physics 1 (4 SH, Type A)
<b>PHY 4102</b> College Physics 2 (4 QH)	<b>PHY E102</b> College Physics 2 (4 SH, Type A)
<b>PHY 4117</b> Physics 1 (4 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with</i> <b>PHY 4196</b> Physics Laboratory 1 (1 QH)	<b>PHY E141</b> Physics 1 (4 SH, Type A)
<b>PHY 4118</b> Physics 2 (4 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with</i> <b>PHY 4119</b> Physics 3 (4 QH) <i>and</i> <b>PHY 4197</b> Physics Laboratory 2 (1 QH) <i>and</i> <b>PHY 4198</b> Physics Laboratory 3 (1 QH) *	<b>PHY E143</b> Physics 2 (4 SH, Type A)
<b>PHY 4119</b> Physics 3 (4 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with</i> <b>PHY 4118</b> Physics 2 (4 QH) <i>and</i> <b>PHY 4197</b> Physics Laboratory 2 (1 QH) <i>and</i> <b>PHY 4198</b> Physics Laboratory 3 (1 QH) *	<b>PHY E143</b> Physics 2 (4 SH, Type A)
<b>PHY 4196</b> Physics Laboratory 1 (1 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with</i> <b>PHY 4117</b> Physics 1 (4 QH)	<b>PHY E141</b> Physics 1 (4 SH, Type A)
<b>PHY 4197</b> Physics Laboratory 2 (1 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with</i> <b>PHY 4118</b> Physics 2 (4 QH) <i>and</i> <b>PHY 4119</b> Physics 3 (4 QH) <i>and</i> <b>PHY 4198</b> Physics Laboratory 3 (1 QH) *	<b>PHY E143</b> Physics 2 (4 SH, Type A)
<b>PHY 4198</b> Physics Laboratory 3 (1 QH) <i>alone</i>	<i>No semester equivalent. Converts to departmental credit.</i>
<i>with</i> <b>PHY 4118</b> Physics 2 (4 QH) <i>and</i> <b>PHY 4119</b> Physics 3 (4 QH) <i>and</i> <b>PHY 4197</b> Physics Laboratory 2 (1 QH) *	<b>PHY E143</b> Physics 2 (4 SH, Type A)
<b>PHY 4199</b> Physics Laboratory Combo (3 QH)	<i>No semester equivalent. Converts to departmental credit.</i>

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