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Semester Course Content Equivalencies Handbook

Office of the University Registrar

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Semester to Quarter Course Content Equivalencies Table : Lowell Institute School

Northeastern University

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Semester to Quarter 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 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/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.

Semester Course(s)	Equivalent Quarter Course(s)

CET—Computer Engineering Technology

CET E201 Visual Basic Programming (4 SH, Type A)	**GET 4200** Visual Basic Programming (4 QH)
CET E301 Intro to C++ Programming (4 SH, Type A)	**GET 4100** Introductory C++ Programming (4 QH) *and* **CT 4311** Intermediate C++ Programming (4 QH) ✻
CET E306 C++/Data Structures (4 SH, Type A)	**CT 4330** Data Structures (4 QH)
CET E311 Computer Organization (4 SH, Type A)	**CT 4150** Computer Organization (4 QH) *and* **CT 4374** Intro to CPU Hardware (4 QH) ✻
CET E321 Software Engineering (4 SH, Type A)	**CT 4340** Software Engineering Design (4 QH)
CET E324 Perl Programming (4 SH, Type A)	**CT 4323** Perl Programming (4 QH)
CET E326 Java Programming (4 SH, Type A)	**CT 4322** Java Programming (4 QH)

Credit hours: SH = Semester hours QH = Quarter hours ✻ = Will result in excess semester credit
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Semester Course(s)	Equivalent Quarter Course(s)
CET E331 Assembly Language (4 SH, Type A)	**CT 4345** Assembly Language (4 QH)
CET E335 Numerical Methods (4 SH, Type A)	**CT 4335** Numerical Methods (4 QH)
CET E350 Embed Microcomp Syst 1 (4 SH, Type A)	**CT 4355** Micro Peripheral Hardware (4 QH)
CET E352 Embed Microcomp Syst 2 (4 SH, Type A)	*New course. No quarter equivalent.*
CET E383 Databases (4 SH, Type A)	**CT 4383** Databases (4 QH)
CET E394 Object-Oriented Programming (4 SH, Type A)	**CT 4394** Object Oriented Programming (4 QH)
CET E401 Adv Visual Basic Programming (4 SH, Type A)	**GET 4201** Adv Visual Basic Programming (4 QH)
CET E411 A+ Core Hardware Servicing (4 SH, Type A)	**CT 4241** A+ Core Hardware Servicing (4 QH)
CET E413 A+ Operating Sys Technology (4 SH, Type A)	**CT 4242** A+ Operating Systems Tech (4 QH)
CET E421 MCSE Prof Admin (4 SH, Type A)	**CT 4221** MCSE Fundamentals (4 QH)
CET E423 MCSE Server Administration (4 SH, Type A)	**CT 4222** MCSE Server Administration (4 QH)
CET E425 MCSE Network Administration (4 SH, Type A)	**CT 4223** MCSE Network Administration (4 QH)
CET E427 MCSE Directory Services Admin (4 SH, Type A)	**CT 4224** MCSE Directory Services Administration (4 QH)
CET E429 MCSE Network Design (4 SH, Type A)	**CT 4225** MCSE Network Designer (4 QH)
CET E431 CCNA Introduction (4 SH, Type A)	**CT 4211** CCNA Introduction (4 QH)
CET E433 CCNA Protocols 1/LAN (4 SH, Type A)	**CT 4212** CCNA Protocols & Routing (4 QH)
CET E435 CCNA Protocols 2/WAN (4 SH, Type A)	**CT 4213** CCNA WAN Protocols & VPNS (4 QH) *and* **CT 4214** CCNA TCP/IP Networking (4 QH) ✻
CET E437 CCNA Security and VPN (4 SH, Type A)	**CT 4215** CCNA Cisco Routers (4 QH) *and* **CT 4216** CCNA Protocol Configuration (4 QH) ✻
CET E439 CCNA Network Design & Verif (4 SH, Type A)	**CT 4217** CCNA Network Design & Verification (4 QH)
CET E441 Oracle SQL Programming (4 SH, Type A)	**CT 4231** Oracle SQL Programming (4 QH)
CET E443 Oracle Fundamentals 1 (4 SH, Type A)	**CT 4232** Oracle Database Fundamentals (4 QH)
CET E445 Oracle Fundamentals 2 (4 SH, Type A)	*New course. No quarter equivalent.*
CET E447 Oracle Performance Tuning (4 SH, Type A)	*New course. No quarter equivalent.*
CET E480 Topics in CET (4 SH, Type A)	**CT 4390** Special Problems Computer Tech (4 QH) *and* **CT 4391** Topics in Computer Technology (4 QH) ✻ - - - - - - - - - - - - - - - - - - **or** - **CT 4390** Special Problems Computer Tech (4 QH) - - - - - - - - - - - - - - - - - - **or** - **CT 4391** Topics in Computer Technology (4 QH)
CET E511 Digital Circuit Comp Simulatn (4 SH, Type A)	**CT 4366** Digital Circuit Computer Simulation (4 QH)
CET E521 Computer Architecture (4 SH, Type A)	**CT 4375** CPU Architecture (4 QH)
CET E531 Data Communications & Networks (4 SH, Type A)	**CT 4380** Data Communication Methods (4 QH) *and* **CT 4480** Local Area Networks 1 (4 QH) ✻

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Semester Course(s)	Equivalent Quarter Course(s)
CET E536 Advanced Networking Concepts (4 SH, Type A)	**CT 4480** Local Area Networks 1 (4 QH)
CET E546 Industry Hardware (4 SH, Type A)	**CT 4365** Industry Hardware (4 QH)
CET E551 Operating Systems (4 SH, Type A)	**CT 4381** Operating Systems (4 QH)
CET E556 UNIX Operating System (4 SH, Type A)	**CT 4393** UNIX Operating System (4 QH)
CET E558 Systems Level Programming (4 SH, Type A)	**CT 4397** Advanced UNIX Programming (4 QH)
CET E560 Computer Security (4 SH, Type A)	**CT 4395** Computer Security (4 QH)
CET E651 Advanced Computer Concepts (4 SH, Type A)	**CT 4351** Adv Computer Organization (4 QH) *and* **CT 4356** Complex Peripheral Hardware (4 QH) ✻
CET E921 Directed Study (1 SH, Type F)	*New course. No quarter equivalent.*
CET E922 Directed Study (2 SH, Type F)	*New course. No quarter equivalent.*
CET E923 Directed Study (3 SH, Type F)	*New course. No quarter equivalent.*
CET E924 Directed Study (4 SH, Type F)	**CT 4492** Independent Study (4 QH) *And/or* **CT 4493** Independent Study (4 QH)

EET—Electrical Engineering Technology

EET E201 Circuit Analysis 1 (4 SH, Type A)	**EET 4124** Circuits Lab 1 (2 QH) *and* **EET 4151** Circuit Analysis 1 (4 QH) *and* **EET 4152** Circuit Analysis 2 (4 QH) ✻ - **or** - **EET 4320** Electricity & Electronics (4 QH)
EET E224 Circuits Laboratory 1 (1 SH, Type B)	*New course. No quarter equivalent.*
EET E301 Circuit Analysis 2 (4 SH, Type A)	**EET 4125** Circuits Lab 2 (2 QH) *and* **EET 4353** Circuit Analysis 3 (4 QH) *and* **EET 4354** Circuit Analysis 4 (4 QH) ✻
EET E311 Analog Electronics 1 (4 SH, Type A)	**EET 4312** Analog Electronics 1 (4 QH) *and* **EET 4323** Electronics Lab (2 QH) ✻
EET E316 Analog Electronics 2 (4 SH, Type A)	**EET 4313** Analog Electronics 2 (4 QH)
EET E321 Digital Electronics 1 (4 SH, Type A)	**EET 4311** Digital Electronics 1 (4 QH) *and* **EET 4314** Digital Electronics 2 (4 QH) *and* **EET 4327** Advanced Electronics Lab 1 (2 QH) *and* **EET 4328** Advanced Electronics Lab 2 (2 QH) ✻
EET E323 Electronics Laboratory (1 SH, Type B)	*New course. No quarter equivalent.*
EET E324 Circuits Laboratory 2 (1 SH, Type B)	*New course. No quarter equivalent.*
EET E326 Digital Electronics 2 (4 SH, Type A)	**EET 4315** Digital Electronics 3 (4 QH)
EET E328 Advanced Electronics Lab 1 (1 SH, Type B)	*New course. No quarter equivalent.*
EET E329 Advanced Electronics Lab 2 (1 SH, Type B)	*New course. No quarter equivalent.*
EET E330 Advanced Electronics Lab 3 (1 SH, Type B)	*New course. No quarter equivalent.*
EET E331 Electrical Measurements (4 SH, Type A)	**EET 4310** Electrical Measurements (4 QH)
EET E336 Engineering Analysis (4 SH, Type A)	**MTH 4123** Differential Equations (4 QH)
EET E341 Energy Conversion (4 SH, Type A)	**EET 4330** Energy Conversion (4 QH)
EET E346 Basic Power Systems 1 (4 SH, Type A)	**EET 4362** Basic Power Systems 1 (4 QH) *and* **EET 4363** Basic Power Systems 2 (4 QH) ✻
EET E350 Basic Power Systems 2 (4 SH, Type A)	**EET 4364** Basic Power Systems 3 (4 QH)
EET E354 Relay Engineering (4 SH, Type A)	**EET 4365** Basic Power Systems Relay Engineering (4 QH)
EET E370 Applied Photonics (4 SH, Type A)	**EET 4392** Applied Photonics for Engineer (4 QH)
EET E372 Optical Systems (4 SH, Type A)	**EET 4391** Basic Optics & Optical Syst Design (4 QH) *and* **EET 4393** Applied Wave Optics (4 QH) ✻
EET E480 Topics in EET (4 SH, Type A)	**EET 4399** Special Problems - EE Tech (4 QH)

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Semester Course(s)	Equivalent Quarter Course(s)
EET E511 Analog Circuit Computer Sim (4 SH, Type A)	**EET 4366** Analog Circuit Computer Simulation (4 QH)
EET E551 Communication Systems 1 (4 SH, Type A)	**EET 4317** Princ of Communication Sys 1 (4 QH) *and* **EET 4318** Princ of Communication Sys 2 (4 QH) ✻
EET E554 Communication Systems 2 (4 SH, Type A)	**EET 4319** Princ of Communication Sys 3 (4 QH)
EET E558 Distributive Systems (4 SH, Type A)	**EET 4329** Advanced Electronics Lab 3 (2 QH) *and* **EET 4337** Distributed Systems (4 QH) ✻
EET E561 Control Engineering (4 SH, Type A)	**EET 4377** Control Engineering 1 (4 QH) *and* **EET 4378** Control Engineering 2 (4 QH) ✻
EET E566 Industrial Control Systems 1 (4 SH, Type A)	*New course. No quarter equivalent.*
EET E570 Industrial Control Systems 2 (4 SH, Type A)	*New course. No quarter equivalent.*
EET E921 Directed Study (1 SH, Type F)	*New course. No quarter equivalent.*
EET E922 Directed Study (2 SH, Type F)	*New course. No quarter equivalent.*
EET E923 Directed Study (3 SH, Type F)	*New course. No quarter equivalent.*
EET E924 Directed Study (4 SH, Type F)	*New course. No quarter equivalent.*

GET—General Engineering Technology

GET E114 Engineering Economy (4 SH, Type A)	**GET 4356** Engineering Economy (4 QH)
GET E121 Computer Apps for Technology (4 SH, Type A)	**GET 4105** Computer Applications for Tech (4 QH)
GET E131 Engineering Graphics 1 (4 SH, Type A)	**GET 4170** Engineering Graphics 1 (4 QH)
GET E155 AutoCAD 1 (4 SH, Type A)	**GET 4155** AutoCAD 1 (4 QH) *and* **GET 4145** AutoCAD 1 (4 QH) ✻ - - - - - - - - - - - - - - - - - - **or** - **GET 4155** AutoCAD 1 (4 QH) - - - - - - - - - - - - - - - - - - **or** - **GET 4145** AutoCAD 1 (4 QH)
GET E157 AutoCAD 2 (4 SH, Type A)	**GET 4156** AutoCAD 2 (4 QH) *and* **GET 4146** AutoCAD 2 (4 QH) ✻ - - - - - - - - - - - - - - - - - - **or** - **GET 4156** AutoCAD 2 (4 QH) - - - - - - - - - - - - - - - - - - **or** - **GET 4146** AutoCAD 2 (4 QH)
GET E331 Engineering Graphics 2 (4 SH, Type A)	**GET 4171** Engineering Graphics 2 (4 QH)
GET E336 Geo Dimensioning & Tolerancing (4 SH, Type A)	**GET 4176** Geometric Dimensiong & Tolerance (4 QH)
GET E341 Technical Communications (3 SH, Type A)	**GET 4306** Technical Communications (3 QH)
GET E373 AutoCAD for Arch & Engineers (4 SH, Type A)	**GET 4173** AutoCAD for Architects & Engrs (4 QH)
GET E375 AutoCAD Solids Modeling (4 SH, Type A)	**GET 4174** AutoCAD Solids Modeling (4 QH)
GET E681 Capstone Preparation (2 SH, Type A)	**GET 4104** Introduction to Product Design (4 QH)
GET E683 Capstone Design Project (4 SH, Type A)	*New course. No quarter equivalent.*
GET E921 Directed Study (1 SH, Type F)	*New course. No quarter equivalent.*
GET E922 Directed Study (2 SH, Type F)	*New course. No quarter equivalent.*
GET E923 Directed Study (3 SH, Type F)	*New course. No quarter equivalent.*
GET E924 Directed Study (4 SH, Type F)	*New course. No quarter equivalent.*

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Semester Course(s)	Equivalent Quarter Course(s)

MET—Mechanical Engineering Technology

MET E201 Statics (4 SH, Type A)	**MET 4301** Mechanics A (4 QH) *and* **MET 4302** Mechanics B (4 QH) ✻ - - - - - - - - - - - - - - - - - - **or** - **MET 4319** Mechanics (4 QH)
MET E301 Dynamics (4 SH, Type A)	**MET 4303** Mechanics C (4 QH)
MET E311 Stress Analysis (4 SH, Type A)	**MET 4314** Stress Analysis A (4 QH) *and* **MET 4315** Stress Analysis B (4 QH) *and* **MET 4391** Mechanics Lab (2 QH) ✻
MET E321 Thermodynamics (4 SH, Type A)	**MET 4340** Thermodynamics A (4 QH) *and* **MET 4341** Thermodynamics B (4 QH) *and* **MET 4393** Thermal Analysis Lab (2 QH) ✻
MET E341 Materials (4 SH, Type A)	**MET 4380** Materials A (4 QH) *and* **MET 4481** Materials B (4 QH) ✻
MET E351 Measurement & Analysis (4 SH, Type A)	**MET 4388** Measurements & Analysis (5 QH)
MET E364 Kinematics (4 SH, Type A)	**GET 4364** Kinematics (4 QH)
MET E385 Pro/ENGINEER (4 SH, Type A)	*New course. No quarter equivalent.*
MET E391 Mechanics Laboratory (1 SH, Type B)	*New course. No quarter equivalent.*
MET E392 Fluid Mechanics Laboratory (1 SH, Type B)	*New course. No quarter equivalent.*
MET E393 Thermal Analysis Laboratory (1 SH, Type B)	*New course. No quarter equivalent.*
MET E395 Mechanical Projects Laboratory (1 SH, Type B)	*New course. No quarter equivalent.*
MET E414 Mechanical Vibrations (4 SH, Type A)	**MET 4414** Mechanical Vibrations (4 QH)
MET E444 Power Generation (4 SH, Type A)	**MET 4444** Power Generation (4 QH)
MET E480 Topics in MET (4 SH, Type A)	**MET 4499** Special Problems - ME Tech (4 QH)
MET E482 Applied Metallurgy (4 SH, Type A)	**MET 4482** Applied Metallurgy (4 QH)
MET E521 Heat Transfer (4 SH, Type A)	**MET 4343** Heat Transfer (4 QH)
MET E526 Heating, Ventilation and AC (4 SH, Type A)	**MET 4342** Refrigeration & Air Condition (4 QH)
MET E531 Fluid Mechanics (4 SH, Type A)	**MET 4373** Fluid Mechanics (4 QH) *and* **MET 4392** Fluid Mechanics Lab (2 QH) ✻
MET E545 Heat Exchanger and Pump Engineering (4 SH, Type A)	*New course. No quarter equivalent.*
MET E556 Fuel Cells: Principles/Tech (4 SH, Type A)	*New course. No quarter equivalent.*
MET E631 Hybrid Vehicles Tech & Design (4 SH, Type A)	*New course. No quarter equivalent.*
MET E633 Vehicle Art Design and Eng (4 SH, Type A)	*New course. No quarter equivalent.*
MET E651 Mechanical Design (4 SH, Type A)	**MET 4330** Mechanical Design A (4 QH) *and* **MET 4331** Mechanical Design B (4 QH) *and* **MET 4333** Design Laboratory (2 QH) ✻ - - - - - - - - - - - - - - - - - - **or** - **MET 4330** Mechanical Design A (4 QH) *and* **MET 4331** Mechanical Design B (4 QH) *and* **MET 4395** Mechanical Projects Lab (2 QH) ✻
MET E921 Directed Study (1 SH, Type F)	*New course. No quarter equivalent.*
MET E922 Directed Study (2 SH, Type F)	*New course. No quarter equivalent.*
MET E923 Directed Study (3 SH, Type F)	*New course. No quarter equivalent.*
MET E924 Directed Study (4 SH, Type F)	*New course. No quarter equivalent.*

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MFG—Manufacturing Engineering Technology

MFG E311 Computer-Aided Manufacturing (4 SH, Type A)	**MFG 4321** Computer-Aided Manufacturing 1 (4 QH) *and* **MFG 4322** Computer-Aided Manufacturing 2 (4 QH) ✻
MFG E321 Comp Meth in Manuf Design (4 SH, Type A)	**MFG 4331** Computer Methods - Mfg Design 1 (4 QH) *and* **MFG 4332** Computer Methods - Mfg Design 2 (4 QH) ✻
MFG E480 Topics in Manufacturing Tech (4 SH, Type A)	**MFG 4390** Special Topics in Manufacturing Technology (4 QH)
MFG E582 IS in Manufacturing Technology (4 SH, Type A)	**MFG 4391** Independent Study in Mfg Tech (4 QH)

MTH—Mathematics

MTH E110 College Algebra (4 SH, Type A)	**MTH 4107** College Algebra (4 QH)
MTH E121 Pre-Calculus (4 SH, Type A)	**MTH 4108** Pre-Calculus (4 QH)
MTH E241 Calculus 1 (4 SH, Type A)	**MTH 4120** Calculus 1 (4 QH)
MTH E243 Calculus 2 (4 SH, Type A)	**MTH 4121** Calculus 2 (4 QH) *and* **MTH 4122** Calculus 3 (4 QH) ✻

PHY—Physics

PHY E101 College Physics 1 (4 SH, Type A)	**PHY 4101** College Physics 1 (4 QH)
PHY E102 College Physics 2 (4 SH, Type A)	**PHY 4102** College Physics 2 (4 QH)
PHY E141 Physics 1 (4 SH, Type A)	**PHY 4117** Physics 1 (4 QH) *and* **PHY 4196** Physics Laboratory 1 (1 QH)
PHY E143 Physics 2 (4 SH, Type A)	**PHY 4118** Physics 2 (4 QH) *and* **PHY 4119** Physics 3 (4 QH) *and* **PHY 4197** Physics Laboratory 2 (1 QH) *and* **PHY 4198** Physics Laboratory 3 (1 QH) ✻

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