



OFFICE OF THE
UNIVERSITY REGISTRAR

Lowell Institute School Quarter Course Conversion, 2005

ETC: Engineering Technology—Computer

New Quarter Course	Semester Course	Old Quarter Course(s)
ETC 4201 Visual Basic Programming (5 QH)	CET E201 Visual Basic Programming (4 SH)	GET 4200 Visual Basic Programming (4 QH)
ETC 4202 Lab for ETC 4201 (1 QH)		
ETC 4301 Intro to C++ Programming (5 QH)	CET E301 Intro to C++ Programming (4 SH)	GET 4100 Introductory C++ Programming (4 QH) and CT 4311 Intermediate C++ Programming (4 QH)
ETC 4302 Lab for ETC 4301 (1 QH)		
ETC 4306 C++ Data Structures (5 QH)	CET E306 C++/Data Structures (4 SH)	CT 4330 Data Structures (4 QH)
ETC 4307 Lab for ETC 4306 (1 QH)	CET E307 Lab for CET E306 (1 SH)	
ETC 4311 Computer Organization (5 QH)	CET E311 Computer Organization (4 SH)	CT 4150 Computer Organization (4 QH) and CT 4374 Intro to CPU Hardware (4 QH)
ETC 4312 Lab for ETC 4311 (1 QH)		
ETC 4321 Software Engineering (5 QH)	CET E321 Software Engineering (4 SH)	CT 4340 Software Engineering Design (4 QH)
ETC 4324 Perl Programming (5 QH)	CET E324 Perl Programming (4 SH)	CT 4323 Perl Programming (4 QH)
ETC 4326 Java Programming (5 QH)	CET E326 Java Programming (4 SH)	CT 4322 Java Programming (4 QH)
ETC 4327 Lab for ETC 4326 (1 QH)		
ETC 4331 Assembly Language (5 QH)	CET E331 Assembly Language (4 SH)	CT 4345 Assembly Language (4 QH)
ETC 4332 Lab for ETC 4331 (1 QH)		
ETC 4335 Numerical Methods (5 QH)	CET E335 Numerical Methods (4 SH)	CT 4335 Numerical Methods (4 QH)
ETC 4350 Embed Microcomp Syst 1 (5 QH)	CET E350 Embed Microcomp Syst 1 (4 SH)	CT 4355 Micro Peripheral Hardware (4 QH)
ETC 4352 Embed Microcomp Syst 2 (5 QH)	CET E352 Embed Microcomp Syst 2 (4 SH)	

New Quarter Course	Semester Course	Old Quarter Course(s)
ETC 4383 Databases (5 QH)	CET E383 Databases (4 SH)	CT 4383 Databases (4 QH)
ETC 4394 Object-Oriented Programming (5 QH)	CET E394 Object-Oriented Programming (4 SH)	CT 4394 Object Oriented Programming (4 QH)
ETC 4401 Adv Visual Basic Programming (5 QH)	CET E401 Adv Visual Basic Programming (4 SH)	GET 4201 Adv Visual Basic Programming (4 QH)
ETC 4402 Lab for ETC 4401 (1 QH)		
ETC 4411 A+ Core Hardware Servicing (5 QH)	CET E411 A+ Core Hardware Servicing (4 SH)	CT 4241 A+ Core Hardware Servicing (4 QH)
ETC 4412 Lab for ETC 4411 (1 QH)		
ETC 4413 A+ Operating Sys Technology (5 QH)	CET E413 A+ Operating Sys Technology (4 SH)	CT 4242 A+ Operating Systems Tech (4 QH)
ETC 4414 Lab for ETC 4413 (1 QH)		
ETC 4421 MCSE Professional Admin (5 QH)	CET E421 MCSE Prof Admin (4 SH)	CT 4221 MCSE Fundamentals (4 QH)
ETC 4422 Lab for ETC 4421 (1 QH)		
ETC 4423 MCSE Server Administration (5 QH)	CET E423 MCSE Server Administration (4 SH)	CT 4222 MCSE Server Administration (4 QH)
ETC 4424 Lab for ETC 4423 (1 QH)		
ETC 4425 MCSE Network Administration (5 QH)	CET E425 MCSE Network Administration (4 SH)	CT 4223 MCSE Network Administration (4 QH)
ETC 4426 Lab for ETC 4425 (1 QH)		
ETC 4427 MCSE Directory Services Admin (5 QH)	CET E427 MCSE Directory Services Admin (4 SH)	CT 4224 MCSE Directory Services Admin (4 QH)
ETC 4428 Lab for ETC 4427 (1 QH)		
ETC 4429 MCSE Network Design (5 QH)	CET E429 MCSE Network Design (4 SH)	CT 4225 MCSE Network Design (4 QH)
ETC 4430 Lab for ETC 4429 (1 QH)		
ETC 4431 CCNA Introduction (5 QH)	CET E431 CCNA Introduction (4 SH)	CT 4211 CCNA Introduction (4 QH)
ETC 4432 Lab for ETC 4431 (1 QH)		
ETC 4433 CCNA Protocols 1/LAN (5 QH)	CET E433 CCNA Protocols 1/LAN (4 SH)	CT 4212 CCNA Protocols & Routing (4 QH)
ETC 4434 Lab for ETC 4433 (1 QH)		
ETC 4435 CCNA Protocols 2/WAN (5 QH)	CET E435 CCNA Protocols 2/WAN (4 SH)	CT 4213 CCNA Wan Protocols & VPNs (4 QH) and CT 4214 CCNA TCP/IP Networking (4 QH)
ETC 4436 Lab for ETC 4435 (1 QH)		
ETC 4437 CCNA Security and VPN (5 QH)	CET E437 CCNA Security and VPN (4 SH)	CT 4215 CCNA Cisco Routers (4 QH) and CT 4216 CCNA Protocol Configuration (4 QH)
ETC 4438 Lab for ETC 4437 (1 QH)		
ETC 4439 CCNA Network Design & Verif (5 QH)	CET E439 CCNA Network Design & Verif (4 SH)	CT 4217 CCNA Network Dsgn & Verification (4 QH)
ETC 4440 Lab for ETC 4439 (1 QH)		
ETC 4441 Oracle SQL Programming (5 QH)	CET E441 Oracle SQL Programming (4 SH)	CT 4231 Oracle SQL Programming (4 QH)
ETC 4442 Lab for ETC 4441 (1 QH)		
ETC 4443 Oracle Fundamentals 1 (5 QH)	CET E443 Oracle Fundamentals 1 (4 SH)	CT 4232 Oracle Database Fundamentals 1 (4 QH)
ETC 4444 Lab for ETC 4443 (1 QH)		
ETC 4445 Oracle Fundamentals 2 (5 QH)	CET E445 Oracle Fundamentals 2 (4 SH)	
ETC 4446 Lab for ETC 4445 (1 QH)		
ETC 4447 Oracle Performance Tuning (5 QH)	CET E447 Oracle Performance Tuning (4 SH)	
ETC 4448 Lab for ETC 4447 (1 QH)		

New Quarter Course	Semester Course	Old Quarter Course(s)
ETC 4480 Topics in Computer Engr Tech (5 QH)	CET E480 Topics in CET (4 SH)	CT 4390 Special Problems Computer Tech (4 QH) ----- <i>or</i> ----- CT 4391 Topics in Computer Technology (4 QH)
ETC 4511 Digital Circuit Comp Simulatn (5 QH)	CET E511 Digital Circuit Comp Simulatn (4 SH)	CT 4366 Digtl Circuit Computr Simulatn (4 QH)
ETC 4521 Computer Architecture (5 QH)	CET E521 Computer Architecture (4 SH)	CT 4375 CPU Architecture (4 QH)
ETC 4531 Data Communications & Networks (5 QH)	CET E531 Data Communications & Networks (4 SH)	CT 4380 Data Communication Methods (4 QH) <i>and</i> CT 4480 Local Area Networks 1 (4 QH)
ETC 4532 Lab for ETC 4531 (1 QH)		
ETC 4536 Advanced Networking Concepts (5 QH)	CET E536 Advanced Networking Concepts (4 SH)	CT 4480 Local Area Networks 1 (4 QH)
ETC 4537 Lab for ETC 4536 (1 QH)		
ETC 4546 Industry Hardware (5 QH)	CET E546 Industry Hardware (4 SH)	CT 4365 Industry Hardware (4 QH)
ETC 4551 Operating Systems (5 QH)	CET E551 Operating Systems (4 SH)	CT 4381 Operating Systems (4 QH)
ETC 4556 UNIX Operating System (5 QH)	CET E556 UNIX Operating System (4 SH)	CT 4393 UNIX Operating System (4 QH)
ETC 4557 Lab for ETC 4556 (1 QH)		
ETC 4558 Systems Level Programming (5 QH)	CET E558 Systems Level Programming (4 SH)	CT 4397 Advanced UNIX Programming (4 QH)
ETC 4560 Computer Security (5 QH)	CET E560 Computer Security (4 SH)	CT 4395 Computer Security (4 QH)
ETC 4651 Advanced Computer Concepts (5 QH)	CET E651 Advanced Computer Concepts (4 SH)	CT 4351 Adv Computer Organization (4 QH) <i>and</i> CT 4356 Complex Peripheral Hardware (4 QH)
ETC 4924 Directed Study (5 QH)	CET E924 Directed Study (4 SH)	CT 4492 Independent Study (4 QH) ----- <i>or</i> ----- CT 4493 Independent Study (4 QH)

ETE: Engineering Technology—Electrical

New Quarter Course	Semester Course	Old Quarter Course(s)
ETE 4201 Circuit Analysis 1 (5 QH)	EET E201 Circuit Analysis 1 (4 SH)	EET 4151 Circuit Analysis 1 (4 QH) <i>and</i> EET 4152 Circuit Analysis 2 (4 QH) ----- <i>or</i> ----- EET 4320 Electricity & Electronics (4 QH)
ETE 4202 Lab for ETE 4201 (1 QH)	EET E202 Lab for EET E201 (1 SH)	EET 4124 Circuits Lab 1 (2 QH)
ETE 4301 Circuit Analysis 2 (5 QH)	EET E301 Circuit Analysis 2 (4 SH)	EET 4353 Circuit Analysis 3 (4 QH) <i>and</i> EET 4354 Circuit Analysis 4 (4 QH)
ETE 4302 Lab for ETE 4301 (1 QH)	EET E302 Lab for EET E301 (1 SH)	EET 4125 Circuits Lab 2 (2 QH)
ETE 4311 Analog Electronics 1 (5 QH)	EET E311 Analog Electronics 1 (4 SH)	EET 4312 Analog Electronics 1 (4 QH)
ETE 4312 Lab for ETE 4311 (1 QH)	EET E312 Lab for EET E311 (1 SH)	EET 4323 Electronics Lab (2 QH)
ETE 4316 Analog Electronics 2 (5 QH)	EET E316 Analog Electronics 2 (4 SH)	EET 4313 Analog Electronics 2 (4 QH)

New Quarter Course	Semester Course	Old Quarter Course(s)
ETE 4317 Lab for ETE 4316 (1 QH)	EET E317 Lab for EET E316 (1 SH)	
ETE 4321 Digital Electronics 1 (5 QH)	EET E321 Digital Electronics 1 (4 SH)	EET 4311 Digital Electronics 1 (4 QH) and EET 4314 Digital Electronics 2 (4 QH)
ETE 4322 Lab for ETE 4321 (1 QH)	EET E322 Lab for EET E321 (1 SH)	EET 4327 Advanced Electronics Lab 1 (2 QH) and EET 4328 Advanced Electronics Lab 2 (2 QH)
ETE 4326 Digital Electronics 2 (5 QH)	EET E326 Digital Electronics 2 (4 SH)	EET 4315 Digital Electronics 3 (4 QH)
ETE 4327 Lab for ETE 4326 (1 QH)	EET E327 Lab for EET E326 (1 SH)	
ETE 4331 Electrical Measurements (5 QH)	EET E331 Electrical Measurements (4 SH)	EET 4310 Electrical Measurements (4 QH)
ETE 4332 Lab for ETE 4331 (1 QH)	EET E332 Lab for EET E331 (1 SH)	
ETE 4336 Engineering Analysis (5 QH)	EET E336 Engineering Analysis (4 SH)	MTH 4123 Differential Equations (4 QH)
ETE 4341 Energy Conversion (5 QH)	EET E341 Energy Conversion (4 SH)	EET 4330 Energy Conversion (4 QH)
ETE 4346 Basic Power Systems 1 (5 QH)	EET E346 Basic Power Systems 1 (4 SH)	EET 4362 Basic Power Systems 1 (4 QH) and EET 4363 Basic Power Systems 2 (4 QH)
ETE 4350 Basic Power Systems 2 (5 QH)	EET E350 Basic Power Systems 2 (4 SH)	EET 4364 Basic Power Systems 3 (4 QH)
ETE 4354 Relay Engineering (5 QH)	EET E354 Relay Engineering (4 SH)	EET 4365 Basic Power Systems Relay Engr (4 QH)
ETE 4370 Applied Photonics (5 QH)	EET E370 Applied Photonics (4 SH)	EET 4392 Applied Photonics for Engineer (4 QH)
ETE 4372 Optical Systems (5 QH)	EET E372 Optical Systems (4 SH)	EET 4391 Basic Optics & Optical Syst Dsgn (4 QH) and EET 4393 Applied Wave Optics (4 QH)
ETE 4480 Topics in Electrical Engr Tech (5 QH)	EET E480 Topics in EET (4 SH)	EET 4399 Special Problems-E Engr Tech (4 QH)
ETE 4511 Analog Circuit Computer Sim (5 QH)	EET E511 Analog Circuit Computer Sim (4 SH)	EET 4366 Analog Circuit Computer Simltn (4 QH)
ETE 4551 Communication Systems 1 (5 QH)	EET E551 Communication Systems 1 (4 SH)	EET 4317 Princ of Communication Sys 1 (4 QH) and EET 4318 Princ of Communication Sys 2 (4 QH)
ETE 4554 Communication Systems 2 (5 QH)	EET E554 Communication Systems 2 (4 SH)	EET 4319 Princ of Communication Sys 3 (4 QH)
ETE 4558 Distributive Systems (5 QH)	EET E558 Distributive Systems (4 SH)	EET 4337 Distributed Systems (4 QH)
ETE 4559 Lab for ETE 4558 (1 QH)	EET E559 Lab for EET E558 (1 SH)	EET 4329 Advanced Electronics Lab 3 (2 QH)
ETE 4561 Control Engineering (5 QH)	EET E561 Control Engineering (4 SH)	EET 4377 Control Engineering 1 (4 QH) and EET 4378 Control Engineering 2 (4 QH)
ETE 4566 Industrial Control Systems 1 (5 QH)	EET E566 Industrial Control Systems 1 (4 SH)	
ETE 4570 Industrial Control Systems 2 (5 QH)	EET E570 Industrial Control Systems 2 (4 SH)	
ETE 4924 Directed Study (5 QH)	EET E924 Directed Study (4 SH)	

ETF: Engineering Technology—Manufacturing

New Quarter Course	Semester Course	Old Quarter Course(s)
ETF 4311 Computer-Aided Manufacturing 1 (5 QH)	MFG E311 Computer-Aided Manufacturing (4 SH)	MFG 4321 Computer-Aided Manufacturing 1 (4 QH) and MFG 4322 Computer-Aided Manufacturing 2 (4 QH)
ETF 4316 Computer-Aided Manufacturing 2 (5 QH)		
ETF 4321 Computer Mthds in Mfg Design (5 QH)	MFG E321 Comp Meth in Manuf Design (4 SH)	MFG 4331 Computer Methods-Mfg Design 1 (4 QH) and MFG 4332 Computer Methods-Mfg Design 2 (4 QH)
ETF 4361 Numerical Controlled Mach 1 (5 QH)	MFG E361 Numerical Controlled Mach 1 (4 SH)	MFG 4361 Numerical Controlled Machines (4 QH)
ETF 4480 Topics in Manufact Engr Tech (5 QH)	MFG E480 Topics in Manufacturing Tech (4 SH)	MFG 4390 Special Topics in Mfg Tech (4 QH)
ETF 4582 Independent Study in Mfg Tech (5 QH)	MFG E582 IS in Manufacturing Technology (4 SH)	MFG 4391 Independent Study in Mfg Tech (4 QH)

ETG: Engineering Technology—General

New Quarter Course	Semester Course	Old Quarter Course(s)
ETG 4114 Engineering Economy (5 QH)	GET E114 Engineering Economy (4 SH)	GET 4356 Engineering Economy (4 QH)
ETG 4121 Computer Apps for Technology (5 QH)	GET E121 Computer Apps for Technology (4 SH)	GET 4105 Computer Applications for Tech (4 QH)
ETG 4131 Engineering Graphics 1 (5 QH)	GET E131 Engineering Graphics 1 (4 SH)	GET 4170 Engineering Graphics 1 (4 QH)
ETG 4155 AutoCAD 1 (5 QH)	GET E155 AutoCAD 1 (4 SH)	GET 4155 AutoCAD 1 (4 QH)
ETG 4157 AutoCAD 2 (5 QH)	GET E157 AutoCAD 2 (4 SH)	GET 4156 AutoCAD 2 (4 QH)
ETG 4331 Engineering Graphics 2 (5 QH)	GET E331 Engineering Graphics 2 (4 SH)	GET 4171 Engineering Graphics 2 (4 QH)
ETG 4336 Geo Dimensioning & Tolerancing (5 QH)	GET E336 Geo Dimensioning & Tolerancing (4 SH)	GET 4176 Geometric Dimensioning & Tolerancing (4 QH)
ETG 4341 Technical Communications (4 QH)	GET E341 Technical Communications (3 SH)	GET 4306 Technical Communications (3 QH)
ETG 4373 Autocad for Arch & Engineers (5 QH)	GET E373 AutoCAD for Arch & Engineers (4 SH)	GET 4173 Autocad for Architects & Engrs (4 QH)
ETG 4375 Autocad Solids Modeling (5 QH)	GET E375 AutoCAD Solids Modeling (4 SH)	GET 4174 Autocad Solids Modeling (4 QH)
ETG 4681 Capstone Preparation (3 QH)	GET E681 Capstone Preparation (2 SH)	GET 4104 Introduction to Product Design (4 QH)
ETG 4683 Capstone Design Project (5 QH)	GET E683 Capstone Design Project (4 SH)	
ETG 4924 Directed Study (5 QH)	GET E924 Directed Study (4 SH)	

ETM: Engineering Technology—Mechanical

New Quarter Course	Semester Course	Old Quarter Course(s)
ETM 4201 Statics (5 QH)	MET E201 Statics (4 SH)	MET 4301 Mechanics A (4 QH) and MET 4302 Mechanics B (4 QH) ----- or ----- MET 4319 Mechanics (4 QH)
ETM 4301 Dynamics (5 QH)	MET E301 Dynamics (4 SH)	MET 4303 Mechanics C (4 QH)
ETM 4311 Stress Analysis (5 QH)	MET E311 Stress Analysis (4 SH)	MET 4314 Stress Analysis A (4 QH) and MET 4315 Stress Analysis B (4 QH)
ETM 4312 Lab for ETM 4311 (1 QH)	MET E312 Lab for MET E311 (1 SH)	MET 4391 Mechanics Lab (2 QH)
ETM 4321 Thermodynamics (5 QH)	MET E321 Thermodynamics (4 SH)	MET 4340 Thermodynamics A (4 QH) and MET 4341 Thermodynamics B (4 QH)
ETM 4322 Lab for ETM 4321 (1 QH)	MET E322 Lab for MET E321 (1 SH)	MET 4393 Thermal Analysis Lab (2 QH)
ETM 4341 Materials (5 QH)	MET E341 Materials (4 SH)	MET 4380 Materials A (4 QH) and MET 4481 Materials B (4 QH)
ETM 4351 Measurement & Analysis (5 QH)	MET E351 Measurement & Analysis (4 SH)	MET 4388 Measurements & Analysis (5 QH)
ETM 4352 Lab for ETM 4351 (1 QH)	MET E352 Lab for MET E351 (1 SH)	
ETM 4364 Kinematics (5 QH)	MET E364 Kinematics (4 SH)	GET 4364 Kinematics (4 QH)
ETM 4385 Pro/ENGINEER (5 QH)	MET E385 Pro/ENGINEER (4 SH)	
ETM 4414 Mechanical Vibrations (5 QH)	MET E414 Mechanical Vibrations (4 SH)	MET 4414 Mechanical Vibrations (4 QH)
ETM 4444 Power Generation (5 QH)	MET E444 Power Generation (4 SH)	MET 4444 Power Generation (4 QH)
ETM 4480 Topics in Mechanical Engr Tech (5 QH)	MET E480 Topics in MET (4 SH)	MET 4499 Special Problems-M Engr Tech (4 QH)
ETM 4482 Applied Metallurgy (5 QH)	MET E482 Applied Metallurgy (4 SH)	MET 4482 Applied Metallurgy (4 QH)
ETM 4521 Heat Transfer (5 QH)	MET E521 Heat Transfer (4 SH)	MET 4343 Heat Transfer (4 QH)
ETM 4522 Lab for ETM 4521 (1 QH)	MET E522 Lab for MET E521 (1 SH)	
ETM 4526 Heating, Ventilation and AC (5 QH)	MET E526 Heating, Ventilation and AC (4 SH)	MET 4342 Refrigeration & Air Condition (4 QH)
ETM 4531 Fluid Mechanics (5 QH)	MET E531 Fluid Mechanics (4 SH)	MET 4373 Fluid Mechanics (4 QH)
ETM 4532 Lab for ETM 4531 (1 QH)	MET E532 Lab for MET E531 (1 SH)	MET 4392 Fluid Mechanics Lab (2 QH)
ETM 4541 Roark & Young Stress Analysis (5 QH)	MET E541 Roark & Young Stress Analysis (4 SH)	
ETM 4543 Renewable Energy Power (5 QH)	MET E543 Renewable Energy Power (4 SH)	
ETM 4545 Heat Exchanger & Pump Engr (5 QH)	MET E545 HT Exchanger & Pump Engineering (4 SH)	
ETM 4556 Fuel Cells: Principles & Tech (5 QH)	MET E556 Fuel Cells: Principles/Tech (4 SH)	

New Quarter Course	Semester Course	Old Quarter Course(s)
ETM 4631 Hybrid Vehicles Tech & Design (5 QH)	MET E631 Hybrid Vehicles Tech & Design (4 SH)	
ETM 4633 Vehicle Engineering & Design (5 QH)	MET E633 Vehicle Art Design and Eng (4 SH)	
ETM 4651 Mechanical Design (5 QH)	MET E651 Mechanical Design (4 SH)	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)
ETM 4924 Directed Study (5 QH)	MET E924 Directed Study (4 SH)	

MTH: Mathematics

New Quarter Course	Semester Course	Old Quarter Course(s)
MTH 4210 College Algebra (5 QH)	MTH E110 College Algebra (4 SH)	MTH 4107 College Algebra (4 QH)
MTH 4221 Precalculus (5 QH)	MTH E121 Pre-Calculus (4 SH)	MTH 4108 Pre-Calculus (4 QH)
MTH 4241 Calculus 1 (5 QH)	MTH E241 Calculus 1 (4 SH)	MTH 4120 Calculus 1 (4 QH)
MTH 4243 Calculus 2 (5 QH)	MTH E243 Calculus 2 (4 SH)	MTH 4121 Calculus 2 (4 QH) and MTH 4122 Calculus 3 (4 QH)
MTH 4350 Differential Equations (5 QH)	MTH E350 Differential Equations (4 SH)	MTH 4123 Differential Equations (4 QH)

PHY: Physics

New Quarter Course	Semester Course	Old Quarter Course(s)
PHY 4141 Physics 1 (5 QH)	PHY E141 Physics 1 (4 SH)	PHY 4117 Physics 1 (4 QH)
PHY 4142 Lab for PHY 4141 (1 QH)	PHY E142 Lab for PHY E141 (1 SH)	PHY 4196 Physics Laboratory 1 (1 QH)
PHY 4143 Physics 2 (5 QH)	PHY E143 Physics 2 (4 SH)	PHY 4118 Physics 2 (4 QH) and PHY 4119 Physics 3 (4 QH)
PHY 4144 Lab for PHY 4143 (1 QH)	PHY E144 Lab for PHY E143 (1 SH)	PHY 4197 Physics Laboratory 2 (1 QH) and PHY 4198 Physics Laboratory 3 (1 QH)