General Information

The Associate in Science degree in Architectural Building Engineering Technology is offered through the Department of Design + Architectural Building Technology.

The Architectural Building Engineering Technology Program is based upon the premise that buildings are designed and built using a team concept. As an integral member of that team, the architectural engineer must have the ability to create and construct buildings that will answer the economic, safety, technical, sustainability, and aesthetic requirements of a project. The associate degree program allows students to develop these necessary abilities by emphasizing the fundamentals of architectural design, structural engineering, environmental systems, sustainability, and construction technology. The program is also designed to instill within students a sense of professionalism and a desire to serve and contribute to society.

In the associate degree program, students also develop basic skills in drafting, graphic communications, three-dimensional theory, computer-aided drafting (CAD), construction documents, construction techniques, green technology, and building materials. Upon successful completion of the associate degree program, students can continue into either the NEIT Bachelor of Science in Architectural Building Engineering Technology degree program or the Bachelor of Science in Construction Management degree program.

Program Mission, Goals and Outcomes

Program Mission

The Architectural Building Engineering Technology programs, both associate and bachelor, prepare the student to be proficient in the art, engineering, and technology of designing the built environment relative to the users' social, psychological, and aesthetic needs.

Program Goals

The Program Goals of the ABT Associate Degree are:

1. To educate students in the fundamentals of building design and sciences through a seamless and comprehensive study combining the theoretical and practical concepts of design, building systems, components, engineering, and construction.
2. To develop our students' observational skills and critical thinking abilities.
3. To instill within each student an awareness of their responsibility to the profession and society through their ethical and professional behavior.

Program Outcomes

The ABT graduate will be able to:

1. Function as a support member in a design and production team environment.
2. Evaluate and analyze fundamental design problems relative to the built environment and participate with the design team in the development of appropriate solutions.
3. Evaluate and analyze fundamental engineering problems relative to construction and develop appropriate solutions.
4. Demonstrate a historical appreciation relative to the building industry.
5. Demonstrate effective communication skills.
6. Generate construction documents using both electronic and non-electronic media.
7. Demonstrate a commitment to produce accurate and quality work.
8. Apply fundamental technology used in the building industry.
9. Develop an appreciation for sustainable design principles.

Curriculum

Term I					
Course No.		*Course Title*	*C*	*L*	*T*
ABT	111	Introduction to Building Science	1	0	1
ABT	112	Technical Drafting and Graphic Communications	2	2	3
ABT	114	Introduction to Computer-Aided Drafting (CAD)	2	4	4
ABT	115	Introduction to Structures	2	0	2
		CHOOSE ONE *(depending upon Math placement)*			
MA	*105*	*Basic College Math with Lab (MA/SCI Core)*	*4*	*2*	*5*
MA	*110*	*Introduction to College Math (MA/SCI Core)*	4	0	4
ELECTIVE		*100-200 Level Math/Science, Humanities, Social Sciences, or Arts/Foreign Language Core*			
			11	6/8	14/ 15
Term II					
Course No.		*Course Title*	*C*	*L*	*T*
ABT	122	Two- and Three-Dimensional Design Theory	3	0	3
ABT	124	Construction Methods & Materials	3	0	3
ABT	125	Building Design & Technology I	2	4	4
MA	*125*	*Technical Math I (MA/SCI Core)*	4	0	4
EN	*100*	*Introduction to College Writing (COM Core)*	*4*	*0*	*4*
			16	4	18
Term III					
Course No.		*Course Title*	*C*	*L*	*T*
ABT	135	Building Design & Technology II	2	8	6
ABT	137	Introduction to Environmental Systems	3	0	3
ABT	138	Surveying & Civil Technology	1	2	2
MA	*210*	*Technical Math II (MA/SCI Core)*	4	0	4
EN	*200*	*Workplace Communications (COM Core)*	*4*	*0*	*4*
			14	10	19

Term IV					
Course No.		*Course Title*	*C*	*L*	*T*
ABT	126	Presentation Techniques	2	2	3
ABT	218	Building Information Modeling I (BIM I)	2	4	4
ABT	236	Building Codes	2	0	2
ID	212	Programming	2	0	2
HI	*235*	*Architectural History (SS Core)*	4	0	4
			12	6	15

Term V					
Course No.		*Course Title*	*C*	*L*	*T*
ABT	221	Visualization Studies I	2	2	3
ABT	223	Structures I	3	0	3
ABT	225	Building Design & Technology III	4	6	7
ELECTIVE		*100-200 Level Humanities (or Arts/Foreign Language) Core*	4	0	4
			13	8	17

Term VI					
Course No.		*Course Title*	*C*	*L*	*T*
ABT	127	Introduction to Construction Estimating	3	0	3
ABT	232	Structures II	3	0	3
PHY	*200*	*Physics I & Lab (MA/SCI Core)*	3	2	4
		CHOOSE (depending on BS degree choice)			
ABT	235	Building Design & Technology IV (for ABT-BS)	4	6	7
		Or both below			
ENG	263	Commercial Utilization of Drones (for CMT-BS)	3	2	4
CET	231	Surveying II (for CMT-BS)	2	2	3
			13	8	17
Total Quarter Credit Hours = 100/101					

Legend

C = Number of lecture hours per week
L = Number of laboratory hours per week
T = Total Quarter Hours where each lecture hour per week is one credit, every 2-4 laboratory hours are one credit depending on the expected amount of pre- or post-lab work.

PLEASE NOTE: All liberal arts core courses are listed in italics.

All associate degree students are required to take 32 credits of liberal arts and math/science courses as selected from the liberal arts core. See the course descriptions section of this catalog for a list of the core area courses. Students who place out of MA 105/110 must still take 32 credits of core courses.

Subject to change.

Liberal Arts Core Electives

All programs must meet certain minimum requirements in both the technical major and in the liberal arts. Course requirements for each program are listed in each curriculum along with liberal arts selections. Courses listed as "Core Electives" in a curriculum can be chosen by students from one of the several core areas listed below. Each core area provides a variety of courses for student choice. Students must take a minimum of 32 credits in core electives for the associate degree and an additional minimum of 28 credits for the (2 + 2) bachelor's degree. Individual majors have specific requirements and may require more than the minimum number of liberal arts credits or may specify certain courses in a particular core area. All liberal arts core elective courses are 4 credits. Please refer to the curriculum of the major for specific requirements.

Associate Degree Liberal Arts Core Areas[1]

You must choose the following during your degree program:

2 Courses from the Communications Core (minimum)
2 Courses from the Math/Science Core (minimum)
1-2 Courses from the Humanities Core OR
1 Course from the Humanities Core AND/OR
1 Course from the Arts/Foreign Language Core
1-2 Courses from the Social Sciences Core
For a minimum of 8 courses (32 credits)

Communications Core Electives (Minimum 8 Credits)
EN 100 Introduction to College Writing
EN 106 Service Industry Communications
EN 110 Healthcare Communications
EN 200 Workplace Communications
EN 211 Oral Communications
HU 208 Rap/Rock and Poetry

Math/Science Core Electives (Minimum 8 Credits)
CHM 101 Life Science Chemistry
MA 100 Introduction to College Math with Lab
MA 105 Basic College Math with Lab
MA 106 Computations and Applications
MA 109 Math for Life Science
MA 110 Introduction to College Math
MA 121 Business Math
MA 125 Technical Math I
MA 200 Applied Math for Business
MA 210 Technical Math II
PHY 126 Applied Physics & Lab
PHY 200 Physics I and Lab
SCI 110 Environmental Science

Arts/Foreign Language Core Electives (Maximum of 4 Credits in Place of a Humanities Course)
AR 203 Introduction to Drawing
AR 206 3D Sculpture: An Adventure in the Third Dimension
AR 207 Introduction to Applied Music
AR 209 The Art of Collage

JP 201 Introduction to Japanese
SP 201 Introduction to Spanish
SP 203 Spanish for Healthcare Workers

Humanities Core Electives (Minimum 4 Credits)
HU 208 Rap/Rock and Poetry
HU 211 Introduction to Film
HU 212 Documentary Film
HU 215 Popular Culture
HU 216 Music and the Media
HU 240 Graphic Design in the 20th Century
HU 242 The Automobile and American Culture
HU 244 Science Fiction
HU 289 Racing Through Film
HU 291 Critical Thinking and Chess

Social Sciences Core Electives (Minimum 8 Credits)
BU 236 Small Business and the Law
EC 203 Principles of Economics
HI 231 Contemporary History
HI 235 Architectural History
HI 280 The Holocaust
PS 140 Life-Span Development
PS 201 Introduction to Psychology
PS 202 Psychology of Healthcare
PS 203 Psychology of Happiness
PS 210 Human Relations in the Workplace
SO 203 Social Problems
SO 220 Internet and Society
SO 231 Crime and Deviance
SS 140 Criminal Investigations
SS 201 American Government in Action
SS 203 Terrorism & National Security
SS 204 Juvenile Justice System in America
SS 221 Technology and American Life
SS 222 Mindful Living

1. Subject to Change.

NEW ENGLAND TECH

Architectural Building Engineering Technology
Associate in Science Degree
(For students entering their technology October 2018 – 201910 or later)

Degree Progress Checklist

Check off each completed course.

Program Requirements

T1	ABT	111	_____
	ABT	112	_____
	ABT	114	_____
	ABT	115	_____
T2	ABT	122	_____
	ABT	124	_____
	ABT	125	_____
T3	ABT	135	_____
	ABT	137	_____
	ABT	138	_____
T4	ABT	126	_____
	ABT	218	_____
	ABT	236	_____
	ID	212	_____
T5	ABT	221	_____
	ABT	223	_____
	ABT	225	_____
T6	ABT	127	_____
	ABT	232	_____
	Choose (depending on BS degree choice)		
	ABT	235	_____
	Or both below		
	ENG	263	_____
	CET	231	_____

Students are advised to take courses in the order and in the term in which they appear on this checklist. Any deviation may result in an extended time required to complete your degree as well as additional tuition and fees. Please contact your Student Advisor prior to making any changes to the course sequence.

Liberal Arts Core Requirements
8 Required Courses
Each course = 4 credits (total of 32 credits)

	Communications Core		
#1	EN 100	T2	_____
#2	EN 200	T3	_____

	Math/Science Core		
#3	MA 105 or 110*	T1	_____
#4	MA 125	T2	_____
#5	MA 210	T3	_____
#6	PHY 200	T6	_____
	or		
	If you placed out of MA 100/110 take:		
#3	*100-200 level MA/SCI, SS, HU or AR/FL*	T1	_____
#4	MA 125	T2	_____
#5	MA 210	T3	_____
#6	PHY 200	T6	_____

*If you placed into MA 044, take MA 105 instead of MA 110.

	Humanities Core*		
#7	100-200 level HU elective	T4,5, or 6	_____

*You may use one Arts/Foreign Language Core Elective to fulfill your Humanities Core.

	Social Sciences Core		
#8	HI 235	T4	_____

Subject to change.
Please see your advisor for any questions.

Course Descriptions

ABT 111 Introduction to Building Science
1 Class Hour 1 Quarter Credit Hour
This is a survey course which introduces students to Building Science. Primary topics will include the many professional disciplines and career paths available to graduates. Additional topics will also include the skills and attitudes necessary to the disciplines, professional ethics, relationships with other trades and professions, construction documentation, and LEED.

ABT 112 Technical Drafting and Graphic Communications
2 Class Hours 2 Lab Hours 3 Quarter Credit Hours
This course is designed to give students the basic understanding of Technical Drafting and Graphic Communications through the exploration and use of drafting materials and methods using both two- and three-dimensional exercises. The emphasis will be on wood frame construction. Architectural lettering, line work, and standard abbreviations will be covered, as well as the proper use of architectural and civil engineering scales. Basic concepts are introduced including ordering principles, proportion, human scale and the basic elements of architecture and interior design. Students develop their own powers of observation throughout the course as they gain new levels of awareness, understanding, and ability related to design.

ABT 114 Introduction to Computer-Aided Drafting (CAD)
2 Class Hours 4 Lab Hours 4 Quarter Credit Hours
This course will provide students with the basics in architectural drafting using the applications of computer-aided design. Students will become familiar with keyboard and mouse functions as they apply to architectural drawings. The emphasis will be on wood frame construction. Topics will include use of the CAD system, the role of drawings in the construction process, and the relationship between the drawings.

ABT 115 Introduction to Structures
2 Class Hours 2 Quarter Credit Hours
This course is a study of basic concepts and terminology used in the design of a building's structural system. The emphasis will be on residential and light commercial construction. Topics covered will include types of loads, load and area calculations, materials, theory of equilibrium, elementary statics, structural components, stair design, foundation design, roof pitches, and the use of span charts found in the Rhode Island State Building Code.

ABT 122 Two- & Three-Dimensional Design Theory
3 Class Hours 3 Quarter Credit Hours
Prerequisite: ABT 112
In this course, students will explore and develop an understanding of abstraction and conceptualization of two- and three-dimensional design relevant to architecture and interiors. Through a series of assigned studio exercises, students will study ordering principles, color theory, and basic elements and organization of space and form.

ABT 124 Construction Methods & Materials
3 Class Hours 3 Quarter Credit Hours
This course is an introduction to building science relative to the assembly of systems, both structural and non-structural, and to the extensive technical terminology used in the building industry. The main focus of the course will be on commercial construction. Topics will include explanations of major building systems and their assembly, the identification of their components, and the limitations of the systems.

ABT 125 Building Design & Technology I
2 Class Hours 4 Lab Hours 4 Quarter Credit Hours
Prerequisites: ABT 112, ABT 114, ABT 115
This course will introduce students to the design process and provide additional knowledge about the preparation of residential design development and construction drawings. Based upon a supplied program and site plan, students will design and execute documents for a single-family residence. Standard techniques of wood frame construction will also be discussed. Topics covered will include design theory, site planning, sequencing of drawings, wood frame terminology, components and their proper assembly, and the content of typical drawings necessary for the construction of a wood framed residence. Also included is an explanation of relevant sections of the building code, the importance of their proper use, and their relationship to wood frame construction.

ABT 126 Presentation Techniques
2 Class Hours 2 Lab Hours 3 Quarter Credit Hours
This course is an introduction to effective graphic communication and layout techniques, both manual and computerized, which are utilized by design professionals. Students will also be introduced to the software commonly used in the industry. Through lectures, demonstrations, critiques and assignments, students will learn the basic concepts of perspective drawing and software application.

ABT 127 Introduction to Construction Estimating
3 Class Hours 3 Quarter Credit Hours
Prerequisites: ABT 112, MA 100/110 (or MA 105)
In this course, students study the estimating procedures and principles used to determine detailed cost estimates in the construction bidding process. The emphasis will be on residential and light commercial construction. Topics covered will include the organization, classification, and quantity surveys of materials and labor costs, subcontracted work, overhead and profit.

ABT 135 Building Design & Technology II
2 Class Hours 8 Lab Hours 6 Quarter Credit Hours
Prerequisites: ABT 124, ABT 125
This course will introduce students to commercial design, the integration of the design to building systems, and the documentation necessary to construct them. Based upon a supplied program and predetermined column configuration, students will design and develop drawings and construction documents for a low rise, steel-framed commercial building. Topics will include design theory, enclosure systems, structural systems and their components, circulation, vertical transportation systems, building code requirements and ADA requirements, and the sequencing of and relationships between the documents.

ABT 137 Introduction to Environmental Systems
3 Class Hours 3 Quarter Credit Hours
Prerequisite: ABT 124 or CR 122 or ID 124
An introduction and qualitative study of typical plumbing, heating, air conditioning, lighting, and electrical systems in buildings. The emphasis will be on light commercial construction.

ABT 138 Surveying & Civil Technology
1 Class Hour 2 Lab Hours 2 Quarter Credit Hours
Prerequisite: MA 125
This course introduces and familiarizes students with the science of surveying, applications, equipment, and methods. Topics covered include equipment operation and handling, terminology, leveling, horizontal and vertical measurements, angles, and construction layout. Lab work is supplemented with data plotting and related computations using hand and computer solutions.

ABT 218 Building Information Modeling I (BIM I)
2 Class Hours 4 Lab Hours 4 Quarter Credit Hours
Prerequisites: (ABT 114 and ABT 135) or (ABT 114 and ID 132) or (CET 114 and CET 225)
This course introduces computer-aided parametric building information modeling as a tool used in the design of buildings and as a means of producing architectural documentation. The primary software product used in this course will be Revit by Autodesk. Topics will include design visualization, bi-directional associativity, interoperability, detailing, intuitive user interface, and parametric components.

ABT 221 Visualization Studies I
2 Class Hours 2 Lab Hours 3 Quarter Credit Hours
Prerequisite: ABT 218
This course will cover the primary conceptual and operational aspects of architectural and engineering visualization. Using 3ds Max® Design, the course will explore the program interface and primary command structure. Subjects covered will include geometry, modifiers, materials, linking Revit files, mapping, basic lighting, and rendering.

ABT 223 Structures I
3 Class Hours 3 Quarter Credit Hours
Prerequisite: MA 125
This course will introduce students to the primary concepts of statics. Topics covered will include concurrent, coplanar and parallel force systems, equilibrium, moment, analysis of statically determinate structures, reactions, and truss analysis using mathematical and graphic methods. Computerized programs for structural analysis will also be introduced.

ABT 225 Building Design & Technology III
4 Class Hours 6 Lab Hours 7 Quarter Credit Hours
Prerequisites: ABT 126, ABT 135, ABT 137, ID 212
Students will continue to explore the architectural design process by investigating an existing building, assessing the design and developing an understanding of the subject's spatial, environmental, structural, mechanical and architectural components. Student understanding of this structure will be demonstrated through drawings and models. The analysis will be followed by a building design problem assigned by the instructor. Students will demonstrate their designs and define how the development was informed by the existing building investigations. Topics covered will include drawing, model making, and theory of design, concept formulation and schematic design. Students will make a graphic presentation representing their solution to a jury of critics at the end of the term.

ABT 232 Structures II
3 Class Hours 3 Quarter Credit Hours
Prerequisite: ABT 223
This course will build upon the skills and theories developed in Structures I and introduces students to the primary concepts of strength of materials. Topics covered will include centroids, moment of inertia, shear and moment diagrams, stresses in beams, stress-strain relationships, deflection, combined loading conditions, and column theory.

ABT 235 Building Design & Technology IV
4 Class Hours 6 Lab Hours 7 Quarter Credit Hours
Prerequisite: ABT 225
Students will continue to explore the architectural design process by solving a building design problem assigned by the instructor. The project will begin with programmatic information and a raw site and culminate in the design development phase. Topics covered will include theory of design, programming, concept formulation, selection of structural and mechanical systems, and schematic design and design development drawings. The effects of site, environment, precedent and zoning regulation on the design process will be discussed. Students will make a graphic presentation representing their solution to a jury of critics at the end of the term.

ABT 236 Building Codes
2 Class Hours 2 Quarter Credit Hours
Prerequisites: ABT 135 or (ABT 114 and ID 132)
In this course, students study the codes that regulate the building industry. Topics will include code history, their purpose, and how they are organized. Also included will be a review of the International Building Codes, Mechanical Codes, National Fire Protection Code, and the Americans with Disabilities Act as it pertains to the accessibility of buildings.

CET 231 Surveying II
2 Class Hours 2 Lab Hours 3 Quarter Credit Hours
Prerequisites: ABT 138, MA 125
Students will study advanced topics in surveying including horizontal and vertical curve layout, earthworks, benchmarks, and establishing property boundary and easement locations. Students will also be introduced to laser leveling, utilization of GPS and total stations.

ENG 263 Commercial Utilization of Drones / UAVs
3 Class Hours 2 Lab Hours 4 Quarter Credit Hours
This course covers the commercial use of drones to collect information. Drones have become very popular in the space of videography to economically gain a point of view previously only available with very expensive equipment. In addition, due to the cost decrease in obtaining this aerial data, numerous technical fields are adapting these tools to gather information in ways never before possible. Some of these uses of drone data include; GIS mapping, mining data acquisition (volume calculations), search and rescue, agriculture crop management and many more. In this course, students will explore several of these uses by developing missions in each of the categories and flying them in a commercial manner.

ID 212 Programming
2 Class Hours 2 Quarter Credit Hours
Prerequisite: ABT 111
This course introduces students to the concepts and theory of building programming. Topics will include client objectives, collection, organization, and analysis of facts, evaluation of alternative concepts, determination of space requirements, and the final problem statement.

Liberal Arts, Math and Science Courses
Associate Degree

Art (Arts/Foreign Language Core)

AR 203 Introduction to Drawing
4 Class Hours 4 Quarter Credit Hours
This course introduces students to key concepts and techniques integral to developing basic drawing skills. Class time will be spent discussing, demonstrating and practicing these skills in order to produce a comprehensive body of work specific to the course objectives. Course performance will be evaluated on effort and growth as opposed to artistic talent.

AR 206 3D Sculpture: An Adventure in the Third Dimension
4 Class Hours 4 Quarter Credit Hours
This course will teach students to think, see and function in 3-dimensional space. They will explore the differences and similarities between 2-dimensional and 3-dimensional representation in composition and design. Students will use a broad range of materials to create sculptures that will help them explore different aspects of 3-dimensional functioning. Class time will be spent in a combination of sculpture design and a discussion of slides of work reflecting the history of three-dimensional works of art from Greek times to the present. No prior experience with art courses is required.

AR 207 Introduction to Applied Music
4 Class Hours 4 Quarter Credit Hours
This course will afford students the opportunity to experience a "hands-on" approach to piano keyboard and composition. Each section of the course will focus on one musical concept through listening, playing and finally application. Because of the computer-assisted nature of the program, all levels of musical and keyboard comprehension can be accommodated, and the course can be geared to the individual interests and needs of each student in the class.

AR 209 The Art of Collage
4 Class Hours 4 Quarter Credit Hours
Powerful imagery is a combination of technical skill and imagination. Students will exercise their ability to manipulate composition and color as well as cultivate the power of imagination in this studio class with a focus on collage, a technique where compositions are crafted by adhering various materials to a backing surface. Creativity and the development of ideas will be explored while acquiring a working knowledge of the elements and principles of art. The assemblage process of collage will be the design tool used to investigate, generate and express ideas. Students will research collage as an art form and examine the creative processes of various artistic disciplines. No prior experience is necessary. Students will be evaluated on their effort and creative growth as opposed to artistic talent.

Business (Social Sciences Core)

BU 236 Small Business and the Law
4 Class Hours 4 Quarter Credit Hours
Prerequisite: EN 100
This course is designed for those students who intend to start and operate their own small business. This course will focus on the various elements associated with the start-up, acquisition and operation of a small business from the entrepreneurial point of view. Topics to be covered will include business formation, contract negotiations and drafting, financing, employee discrimination issues, customer relations issues, licensing, permits and tax basics. Additionally, students will be asked to complete a legal research assignment and prepare and present a business plan in their particular technological field of study.

Community Enrichment

CE 101 Community Enrichment
This online course is offered through the Feinstein Enriching America Program. Weekly assignments include topics such as B Corporations, civic and social responsibility, and Non-Governmental Organizations. A 15-hour community enrichment project is also required. Community engagement six months prior to taking the course may be accepted with proper documentation. Current or prior military service and concurrent clinical experiences are accepted in lieu of the community enrichment project. After successful completion of the course, students are eligible to apply for a Feinstein Scholarship, which is awarded each term.

Chemistry (Math/Science Core)

CHM 101 Life Science Chemistry
3 Class Hours 2 Lab Hours 4 Quarter Credit Hours
Prerequisite: MA 100/110 or MA 105 or MA 109
This course provides an introduction to inorganic chemistry and organic chemistry with a focus on Life Science applications as reflected in the selection of the text. Topics include measurement, units of concentration, the nature of atoms, states of matter, periodicity, bonding, stoichiometry, chemical reactions, thermodynamics and kinetics.

Economics (Social Sciences Core)

EC 203 Principles of Economics
4 Class Hours 4 Quarter Credit Hours
Prerequisite: EN 100
Introduces the fundamental principles of microeconomics and macroeconomics, such as scarcity, supply and demand, growth, fiscal and monetary policies, and the public and the private sectors.

English (Communications Core)

EN 100 Introduction to College Writing
4 Class Hours 4 Quarter Credit Hours
Placement: Based on an evaluation of a writing sample or successful completion of EN 030.
EN 100 is an introductory writing course designed to immerse students in the writing process and sharpen their critical thinking skills. In this course, students will practice using writing as a tool for learning by responding to readings, composing essays, and reflecting on the writing process itself. Through drafting, revising, and writing to learn, students will strengthen their ability to interpret, analyze, and evaluate the ideas presented in the course readings, lectures, and discussions. Conducting, evaluating, and integrating research (through summarization, quotations, and paraphrasing) is a major component of this course. Additionally, students will be introduced to APA citation style, and will improve essential writing skills such as grammar, punctuation, and standard usage.

EN 106 Service Industry Communications
5 Class Hours 5 Quarter Credit Hours
In today's competitive service industry technicians must possess a mastery of both technical and nontechnical skills. EN 106 will introduce and equip students with the nontechnical or "soft skills" needed to succeed and advance in their field. Topics will include written and verbal communication, professionalism, team collaboration, critical thinking, and problem-solving skills. Because learning to write and communicate effectively requires practice, the course provides numerous opportunities; including

writing workshops, role play, and group activities, for students to apply the fundamentals of written and oral communication.

EN 110 Healthcare Communications
4 Class Hours 4 Quarter Credit Hours
Prerequisite: EN 100
EN 110 builds off the foundation established in EN 100 and focuses on the necessity of clear written and oral communication in the allied health arena. Through role play, small group work, and presentations students will develop the communication and critical thinking skills they will need daily when communicating with other health care providers, clients, and their families. Additionally, by continuing in the writing process (researching, drafting, and revising) students will further their ability to write clear, concise, error free prose with attention given to audience and message.

EN 200 Workplace Communications
4 Class Hours 4 Quarter Credit Hours
Prerequisite: EN 100 or EN 110 or placement based on evaluation of a writing sample.
EN 200 builds off the foundation established in EN 100 and focuses on the necessity of clear written and oral communication in professional settings. Students will be exposed to a variety of business writing genres including memos, emails, business letters, and proposals. By continuing their engagement in the writing process (researching, drafting, and revising), students will compose several professional documents, reinforcing students' attention to audience and their aptitude to develop an effective workplace document. Additionally, this course strengthens students' ability to document in APA citation style, and hone essential writing skills such as grammar, punctuation, and standard usage.

EN 211 Oral Communications
4 Class Hours 4 Quarter Credit Hours
Prerequisite: EN 100 or EN 110 or placement
EN 211 is an introductory course with an emphasis on oral communication theory and practice. The course provides a basic understanding of the significance of oral communication as well as instruction and practice in the basic skills of public speaking. The course is intended to help students develop skills in speaking, organizing thoughts, and critical analysis. Major emphasis is placed on the preparation and presentation of formal speeches.

History (Social Sciences Core)

HI 231 Contemporary History
4 Class Hours 4 Quarter Credit Hours
Prerequisite: EN 100
This course encourages students to explore economic, political, social and cultural developments throughout the world since World War II, particularly in developing nations including spiritual, scientific and intellectual developments.

HI 235 Architectural History
4 Class Hours 4 Quarter Credit Hours
This course is a study of the major periods and styles of architecture from Egyptian through postmodern. Styles studied will include Egyptian, Greek, Roman, early Christian, Byzantine, Romanesque, Gothic, Renaissance, Baroque, 18th, 19th and 20th century. Through a series of lectures, discussions, and readings, students will gain a fundamental understanding of the history of architecture including the historical and social context of each period respectively.

HI 280 The Holocaust
4 Class Hours 4 Quarter Credit Hours
Prerequisite: EN 100
In this course, students will study genocide and mass murder in modern history. The focus of this course is the Jewish Holocaust of 1933-1945. Through film, photographs, and readings, the course will provide students with a basic understanding of the establishment of the Nazi Party and its attitudes, beliefs, and laws that were put into action during this time period. Students will compare the Holocaust to current genocidal acts in the world today, including the effects of genocide on society.

Humanities (Humanities Core)

HU 208 Rap/Rock and Poetry
4 Class Hours 4 Quarter Credit Hours
Core Fulfillment: Both Communications Core and Humanities Core
Prerequisite: EN 100
What do Eminem, Tupac, Bob Marley, Bob Dylan and WB Yeats have in common? All five wordsmiths are poets who use rhyme, rhythm, figurative language and poetic structure to craft language. In this course, students will explore poetic devices and important global themes through examination of poetry, written by Nobel Prize and Grammy Award winning writers. Focusing on aspects of poetic form will build students' understanding of and appreciation for the power of language.

HU 211 Introduction to Film
4 Class Hours 4 Quarter Credit Hours
Prerequisite: EN 100
The focus of the course will be on what goes into the reading and analysis of a film. Film is comprised of several arts – and the objective of this course is to learn to appreciate films and to see them as important social documents that tell us much about ourselves and our world.

HU 212 Documentary Film
4 Class Hours 4 Quarter Credit Hours
Prerequisite: EN 100
This course will expose students to the techniques and artistry of making interesting non-fiction films. Students will view and analyze significant documentary films and become familiar with the work of important filmmakers.

HU 215 Popular Culture
4 Class Hours 4 Quarter Credit Hours
This course will analyze cultural expressions of intellectual and social trends since 1950. Students will investigate literature, comics, movies, television, music, advertising, painting, computer games, and the Internet to probe the forces that shape our world. In this course, students will identify and evaluate the popular entertainment we consume and ask how our choices define us and shape our values. Understanding our values and culture enables us to understand why we buy what we buy, why we do what we do, and why we think the way we do.

HU 216 Music and the Media
4 Class Hours 4 Quarter Credit Hours
Prerequisite: EN 100
This course will trace the long relationship between visual media and music. Students will study the movie industry from silent movies to the soundtracks that are an integral part of the movies of today. They will also study the importance of music in television, radio and the recording industry, particularly its role in commercials and the "selling" of products, people and programming. In addition, a substantial portion of the course will be devoted to the technology that has led to today's sophisticated performances and recording techniques.

HU 240 Graphic Design in the 20th Century
4 Class Hours 4 Quarter Credit Hours
Prerequisite: EN 100
Throughout history, artists and designers have created visual works that help to define historical eras. In this course, students will examine and analyze the most prominent design styles of the past one hundred years. They will learn the defining features and major proponents of each style as well as how each style fits within its historical context. They will then use the knowledge gained to produce designs that respond to past styles in an engaged, knowledgeable way. Course performance will be evaluated on student effort and growth as opposed to artistic talent.

HU 242 The Automobile and American Culture
4 Class Hours 4 Quarter Credit Hours
Undeniably, the automobile has had an enormous impact on American culture. A majority of Americans rely on individual transportation daily, but the car is more than a means of heading to work. Automobiles impact our personal independence, our choice of employment, the country and world economies, the environment, and our social culture. The Automobile and American Culture is a course designed to study the broad impact that the automobile has and continues to have on our nation and the world. Students will examine the automobile through historical documents, films, photographs, and music.

HU 244 Science Fiction
4 Class Hours 4 Quarter Credit Hours
Prerequisite: EN 100
Isaac Asimov called science fiction "the literature of change." The course will analyze films, short stories, and a classic science fiction novel to understand the ways this popular genre entertains us and gives us insight into the impact science and technology has had on us.

HU 289 Racing Through Film
4 Class Hours 4 Quarter Credit Hours
Racing Through Film is a course dedicated to examining how the sport of motor racing has been explored through film. Through reading, discussion and viewing films we will consider such issues as the history of racing, questions of masculinity and the often countercultural and rebellious nature of racing, with particular interest in the anti-hero figure.

HU 291 Critical Thinking and Chess
4 Class Hours 4 Quarter Credit Hours
Prerequisite: EN 100
This course teaches critical thinking and problem-solving skills by using the game of chess as an empirical model for evaluating situations, calculating risks, predicting the consequences of possible actions, solving problems efficiently, and investigating the benefits and limits of reasoning and creative play. Students will demonstrate those skills by solving a wide variety of tactical and strategic problems in chess, by writing a thoughtful analysis of the qualities necessary for a successful thinker/problem solver, and by applying those qualities to situations in one’s personal life and career. Chess will be used as a model for critical thinking skills and life skills.

Japanese (Arts/Foreign Language Core)

JP 201 Introduction to Japanese
4 Class Hours 4 Quarter Credit Hours
Students will be introduced to the basics of Japanese, (speaking, listening, reading, and writing) with an emphasis on comprehension and speaking. Vocabulary used in everyday communication in the workplace, school, and common social situations will be covered. Contemporary Japanese society will be addressed in class discussions and video presentations including, but not limited to art, education, film (in particular animé), food, literature, music, sports, and technology. Japanese technological invention and

know-how, as well as the unique challenges of doing business with the Japanese will be studied. Japanese guest speakers will be invited to share their expertise and experiences.

Mathematics (Math/Science Core)

MA 100 Introduction to College Math with Lab
2 Class Hours 4 Lab Hours 4 Quarter Credit Hours
Prerequisite: Placement exam
Topics to be covered in this lab-based introductory algebra course include operations with signed numbers, rules for exponents, polynomial operations, solutions to linear equations in one variable, and several applications important to various programs.

MA 105 Basic College Math with Lab
4 Class Hours 2 Lab Hours 5 Quarter Credit Hours
Prerequisite: Placement exam
Topics to be covered in this lab-based introductory algebra course include operations with signed numbers, rules for exponents, polynomial operations, solutions to linear equations in one variable, and several applications important to various programs.

MA 106 Computations and Applications
4 Class Hours 2 Lab Hours 5 Quarter Credit Hours
Prerequisites: AUT 114, TT 106
This course in basic mathematics covers the math skills necessary for automotive technicians. Topics include decimals, fractions, ratios, percentages, unit conversion, basic geometry and basic algebra. In the lab, students will apply these concepts to practical automotive applications.

MA 109 Math for Life Science
4 Class Hours 4 Quarter Credit Hours
This course is designed to assist in the understanding of the proper techniques needed to perform accurate dosage calculations; vital signs in order to ensure patient safety. This course will focus on developing the mathematical skills, critical thinking and quantitative reasoning methods needed to apply medical language and systems of measurement to solve problems in a variety of healthcare settings.

MA 110 Introduction to College Math
4 Class Hours 4 Quarter Credit Hours
Prerequisite: Placement exam
Topics to be covered in this introductory algebra course include operations with signed numbers, rules for exponents, polynomial operations, solutions to linear equations in one variable, and several applications important to various programs.

MA 121 Business Math
4 Class Hours 4 Quarter Credit Hours
Prerequisite: MA 100/110 or MA 105 or MA 106 or MA 109
This is an elementary applied course studying such business topics as interest rates, discounts, payrolls, markups, depreciation, insurance, mortgages, and basic statistics.

MA 125 Technical Math I
4 Class Hours 4 Quarter Credit Hours
Prerequisite: MA 105 or MA 100/110
Topics to be studied include the analytic geometry of a straight line, systems of linear equations, trigonometry, vectors and their applications, and quadratic equations.

MA 200 Applied Math for Business
4 Class Hours 4 Quarter Credit Hours
Prerequisite: MA 105 or MA 100/110
MA 200 is designed to help with the transition from basic algebra to more advanced business-related courses, such as statistics and finance. Applications will be stressed throughout the course. Specific topics include linear functions, quadratic functions, descriptive statistics, exponential functions, and annuities.

MA 210 Technical Math II
4 Class Hours 4 Quarter Credit Hours
Prerequisite: MA 125
The following four major topics and their applications will be studied: Cramer's Rule, exponential and logarithmic functions, trigonometry, and complex numbers.

Physics Courses (Math/Science Core)

PHY 126 Applied Physics & Lab
3 Class Hours 2 Lab Hours 4 Quarter Credit Hours
Prerequisite: MA 100/110 or MA 106 or MA 109
This course studies the applications of fundamental concepts of physics. The topics covered include: the motion of objects, the forces that cause motion, velocity, acceleration, Newton's Laws, torques, work, power, and energy. The laboratory component is designed to give students the opportunity to have hands-on experience with the fundamental concepts of physics studied in the theory portion of the course.

PHY 200 Physics I & Lab
3 Class Hours 2 Lab Hours 4 Quarter Credit Hours
Prerequisite: MA 125
This course is a non-calculus approach to the study of fundamental physics and includes kinematics and dynamics of bodies, velocity, acceleration, and Newton's laws of motion, forces in equilibrium, concurrent and non-concurrent forces, work, power, energy, and torque. Labs are performed within the course to reinforce concepts.

Psychology (Social Sciences Core)

PS 140 Life-Span Development
4 Class Hours 4 Quarter Credit Hours
The purpose of Life-Span Development is to introduce students to the broad concepts of human growth and development from conception to death. Students will be introduced to human development from the prenatal stage to death with particular emphasis placed on early childhood, adolescence and old age. The course is especially designed for students entering the healthcare professions as the slant is toward practical application of all stages. Upon completion of the course, students should be able to demonstrate a basic knowledge of the developmental stages of life.

PS 201 Introduction to Psychology
4 Class Hours 4 Quarter Credit Hours
This introductory course in psychology is a survey of the multiple aspects of human behavior. It includes, but is not limited to, such topics as the history of psychology, the biological foundations of behavior, memory, learning, personality, psychological disorders and treatment and social behavior. Importantly, this course will be geared to stress those areas of more practical significance for those in medical service fields.

PS 202 Psychology of Healthcare
4 Class Hours 4 Quarter Credit Hours
Prerequisite: EN 100
This course addresses the human element of clinical competence in providing health care. Students will explore the psychodynamics of interactions between health care workers and patients, the psychological influences of illness and pain, the psychosocial factors that impact one's effectiveness as a health care team member, the impact of families on a patient's treatment plan, the role of body image in patient responsiveness to treatment, and a variety of other psychosocial factors that influence health care delivery.

PS 203 Psychology of Happiness
4 Class Hours 4 Credit Hours
This course will explore the psychological principles associated with the experience, feelings and thoughts of happiness. Students will be exposed to a variety of research investigations that have studied different variables that impact happiness. Some of the subtopics discussed in this course include ways to define and measure happiness, differences and similarities in happiness across cultures, happiness and money, and ways to increase happiness.

PS 210 Human Relations in the Workplace
4 Class Hours 4 Quarter Credit Hours
Major skill areas covered in the course include making a good impression with your employer, managing conflict with difficult coworkers, working on a team with diverse groups of people, providing exceptional customer service, and managing on-the-job stressors. This course provides a set of practical human relations techniques that will help students increase the likelihood of job security and career advancement in any current or future job.

Science (Math/Science Core)

SCI 110 Environmental Science
4 Class Hours 4 Quarter Credit Hours
This course will focus on man's interaction with his environment. It will cover current issues like global warming, human population growth, and pollution.

Sociology (Social Sciences Core)

SO 203 Social Problems
4 Class Hours 4 Quarter Credit Hours
This course will examine contemporary social issues from multiple perspectives. Attempts to see the ethics, the arguments and the policy outcomes involved in problems such as drug abuse, crime, poverty and the global environment.

SO 220 Internet and Society
4 Class Hours 4 Quarter Credit Hours
Prerequisite: EN 100
Internet and Society is an online course that focuses on the impact of the Internet on our lives. The goal of this course is to encourage students to think deeply and critically about the reality of living in a technology-driven society and how technological change influences work, families, social lives, education, and privacy.

SO 231 Crime and Deviance
4 Class Hours 4 Quarter Credit Hours
This course traces the historical development of crime and deviance. A review of the social, physiological, and psychological theories of crime are examined. Topics such as the history of policing and the history of corrections are also reviewed.

Spanish (Arts/Foreign Language Core)
These courses are designed for students with no prior knowledge of Spanish.

SP 201 Introduction to Spanish
4 Class Hours 4 Quarter Credit Hours
This course will introduce students to the Spanish language with an emphasis on the use of Spanish in the workplace. Students will learn to communicate with customers and other employees in Spanish with a focus on basic vocabulary words used in everyday interactions at the workplace. Topics covered include: conversational skills as well as key principles of Spanish grammar and cultural traditions in Spanish-speaking countries.

SP 203 Spanish for Healthcare Workers
4 Class Hours 4 Quarter Credit Hours
This course will introduce students to the Spanish language with an emphasis on the use of Spanish in the workplace. Students will learn to communicate with Spanish speaking patient and family and other employees in Spanish with a focus on basic vocabulary words used in everyday interactions at the workplace. While each class will emphasize conversational skills, the course will also cover some key principles of Spanish grammar and provide some exposure to a variety of cultural traditions in Spanish-speaking countries.

Social Sciences (Social Sciences Core)

SS 140 Criminal Investigations
4 Class Hours 4 Quarter Credit Hours
In this course, students will get exposure to a wide range of interpersonal and scientific factors that are explored by criminal investigators in their efforts to support hypotheses developed to solve a variety of crimes. Some of the course topics will include the appropriate collection of evidence at a crime scene, techniques for interviewing witnesses and suspects, the role of the crime lab, the science of fingerprinting, forensic medicine, and the preparation of testimony that leads to the conviction of criminals.

SS 201 American Government in Action
4 Class Hours 4 Quarter Credit Hours
Prerequisite: EN 100
This is an introductory course that will help students understand how the pieces of American government fit together, and how politics continuously affects their lives. Students will examine the roles of interest groups, the media, political parties and the three branches of government. Class discussions about relevant and current political issues will be encouraged.

SS 203 Terrorism and National Security
4 Class Hours 4 Quarter Credit Hours
Prerequisite: EN 100
This course examines the challenge contemporary terrorism presents for U.S. national security. It investigates the causes of terrorism and inquires into the motives, objectives, methods, and effectiveness of contemporary terrorist groups with an emphasis on al Qaeda. Analysis of the determinants of American counter-terrorism policies and evaluation of the effectiveness of these initiatives are central themes of the course. As such, evaluation of the roles the invasion of Afghanistan, the Iraq War, covert operations,

domestic and foreign internal security initiatives, and global law enforcement operations have played in addressing the terrorist threat are major points of emphasis.

SS 204 Juvenile Justice System in America
4 Class Hours 4 Quarter Credit Hours
The course is designed to explore the components of the juvenile justice system in America. The various features, characteristics, policies and concerns about the juvenile justice system are carefully examined. As part of the review, adolescent behavior and influence of the family dynamic will be discussed. The detention of juveniles, the various programs focused on the diversion of youths from the juvenile justice system, rehabilitation programs and prevention programs will also be reviewed.

SS 221 Technology and American Life
4 Class Hours 4 Quarter Credit Hours
The course, based on abstract thinking and analysis, examines the interactive relationship between technology and society over historic time and across geographic space. The course will address basic questions about technology and its place in society. Students will be able to evaluate the impact of social change on their lives, and the impact of their technology on changing the social system.

SS 222 Mindful Living
4 Class Hours 4 Quarter Credit Hours
On a single day, how often do you find yourself pulled in multiple directions? In a world inundated with information, and increasingly demanding of our time and attention, it can be overwhelming to know how to even begin prioritizing what is important. What if there were something you could do to increase your productivity, reduce anxiety and stress, and be more fully present in your daily experiences? Welcome to the practice of mindfulness –sustained, purposeful, moment-to-moment attention without judgement. Research studies have shown that a regular mindfulness practice yields concrete physical and emotional benefits, including reduced stress, decreased physical pain, increased concentration, and a happier mindset. In this course, you will learn different ways to practice mindful living.

Questions & Answers

1. **When do my classes meet?**

Day Classes: Technical classes normally meet for at least three hours a day for up to five days a week. Classes normally begin in the early morning (7:45 a.m.), late morning (usually 11:25 p.m.), or mid-afternoon. A technical time slot may vary from term to term.

Evening Classes: Technical classes meet on the average of three nights a week, although there may be times when they will meet four nights a week. Classes normally begin at 5:45 p.m.

In addition, to achieve your associate degree, you will take a total of approximately eight liberal arts courses, which will be scheduled around your technical schedule over the course of your entire program. Each liberal arts course meets approximately four hours per week. Liberal arts courses are offered days, evenings, and Saturdays.

At the beginning of each term you will receive a detailed schedule giving the exact time and location of all your classes. The College requires that all students be prepared to take classes and receive services at any of NEIT's locations where the appropriate classes and services are offered.

When a regularly scheduled class falls on a day which is an NEIT observed holiday (Columbus Day, Veterans Day, Martin Luther King, Jr. Day, and Memorial Day), an alternate class will be scheduled as a make up for that class. The make up class may fall on a Friday. It is the student's responsibility to take note of when and where classes are offered.

2. **How large will my classes be?**

The average size for a class is about 20 to 25 students; however, larger and smaller classes occur from time to time.

3. **How much time will I spend in lab?**

Almost half of your technical courses consist of laboratory work. In order for you to get the most out of your laboratory experiences, you will first receive a thorough explanation of the theory behind your lab work.

4. **Where do my classes meet?**

Students should be prepared to attend classes at any of NEIT's classroom facilities: either at the Post Road, Access Road, or East Greenwich campuses.

5. **I have not earned my high school diploma or GED: can I enroll in an Associate Degree Program?**

A candidate for admission to an associate degree program must have a high school diploma, have earned a recognized equivalency diploma (GED), or meet the federal home school requirements.

6. **How long should it take me to complete my program?**

To complete your degree requirements in the shortest possible time, you should take the courses outlined in the prescribed curriculum. For a typical six-term curriculum, a student may complete the requirements in as little as 18 months.

To complete all your degree requirements in the shortest time, you should take at least one liberal arts course each term. Students who need more time to complete their curriculum may postpone some of the liberal arts courses until after the completion of the technical requirements. Students are provided up to two additional terms of study to complete the liberal arts requirements without any additional tuition assessment fee. During these additional terms of study, students are required to pay all applicable fees.

Students may also elect to complete some of their liberal arts requirements during Intersession, a special five-week term scheduled between Spring and Summer Quarters. Students will not be assessed any additional tuition for liberal arts courses taken during the Intersession but may be assessed applicable fees.

Students wishing to extend the number of terms needed to complete the required technical courses in their curriculum will be assessed additional tuition and fees.

7. Is NEIT accredited?

NEIT is accredited by the New England Commission of Higher Education (formerly the Commission on Institutions of Higher Education of the New England Association of Schools and Colleges, Inc.). Accreditation by NECHE is recognized by the federal government and entitles NEIT to participate in federal financial aid programs. Some academic departments have specialized professional accreditations in addition to accreditation by NECHE. For more information on accreditation, see NEIT's catalog.

8. Can I transfer the credits that I earn at NEIT to another college?

The transferability of a course is always up to the institution to which the student is transferring. Students interested in the transferability of their credits should contact the Office of Teaching and Learning for further information.

9. Can I transfer credits earned at another college to NEIT?

Transfer credit for appropriate courses taken at an accredited institution will be considered upon receipt of an official transcript for any program, biology, science, and mathematics courses in which the student has earned a "C" or above within the past three years and for English or humanities courses in which the student has earned a "C" or above within the last ten years. An official transcript from the other institution must be received before the end of the first week of the term for transfer credit to be granted for courses to be taken during that term. Students will receive a tuition reduction for the approved technical courses based on the program rate and will be applied against the final technical term of the curriculum's tuition amount. No tuition credit is provided for courses which are not a part of the technical curriculum.

10. What is the "Feinstein Enriching America" Program?

New England Institute of Technology is the proud recipient of a grant from the Feinstein Foundation. To satisfy the terms of the grant, the College has developed a one-credit community enrichment course which includes hands-on community enrichment projects. The course can be taken for a few hours per term, spread over several terms. Students who are already engaged in community enrichment on their own may be able to count that service towards course credit.

11. How many credits do I need to acquire my Financial Aid?

In order to be eligible for the maximum financial aid award, you need to maintain at least 12 credits per academic term.

12. What does my program cost?

The cost of your program will be as outlined in your enrollment agreement, along with your cost for books and other course materials. Students who decide to take more terms than the enrollment agreement describes to complete the technical courses in their curriculum will be subject to additional fees and possible additional tuition costs. Students who elect to take the technical portion of the degree requirements at a rate faster than the rate prescribed in the curriculum and the enrollment agreement will be assessed additional tuition.

Students who require prerequisite courses will incur additional tuition and fees above those outlined in their enrollment agreement.

If a student elects to take a course(s) outside of the prescribed curriculum, additional tuition and fees will be assessed.

Remember, students who withdraw and re-enter, one time only, pay the tuition rate that was in effect for them at the time of their last day of attendance for up to one year from their last day of attendance. Second re-entries and beyond pay the tuition rate in effect at the time they re-enter. The most economical way for you to complete your college degree is to begin your program now and continue your studies straight through for the six terms necessary to complete your degree requirements.

13. What kind of employment assistance does NEIT offer?

The Career Services Office assists NEIT students and graduates in in all aspects of the job search, including resume writing, interviewing skills, and developing a job search strategy. Upon completion of their programs, graduates may submit a resume to the Career Services Office to be circulated to employers for employment opportunities in their fields. Employers regularly contact us about our graduates. In addition, our Career Services Office contacts employers to develop job leads. A strong relationship with employers exists as a result of our training students to meet the needs of industry for over fifty years. No school can, and NEIT does not, guarantee to its graduates employment or a specific starting salary.

14. Where will job opportunities exist?

Graduates have obtained employment in the local area. However, one of the most exciting aspect of this program is the ability to look nationally for employment opportunities.

15. Is there any state or federal licensing required in my field?

No license is required for any of the careers which you will be preparing to enter.

16. What kind of jobs will I be qualified to look for?

Career opportunities for graduates of the Architectural/Building Engineering Technology Associate Degree program include entry-level positions with:

- architectural and engineering firms as drafters, CAD operators, or job captains
- construction companies or construction management firms as estimators and schedulers
- construction subcontractors as estimators
- municipalities in their drafting/engineering departments
- real estate companies in sales (with appropriate license)
- real estate development companies as drafters/designers
- corporations who manufacture or sell construction products in their sales or drafting/engineering departments
- corporations who have in-house facilities management, design and/or construction departments as designers/drafters
- building materials related retail sales
- Career opportunities for our Bachelor Degree graduates include entry-level positions with:
- architectural and engineering firms as project managers or junior engineers
- construction companies or construction management firms as project managers, estimators, schedulers, and expediters
- construction subcontractors as project managers or estimators
- government agencies such as HUD or the Army Corps of Engineers
- state agencies such as RI Department of Environmental
- Management, RI Building Code Commission, or Department of Transportation

- municipalities in their building inspection, planning, engineering, or highway departments
- real estate companies in sales or inspections (with appropriate license)
- real estate development companies as designers, planners, or project managers
- corporations who manufacture or sell construction products either in their sales, engineering, or marketing departments
- corporations who have in-house design and/or construction departments as designers or project managers
- related industries such as insurance or finance
- corporations as a facilities manger or plant engineer
- builder of manufactured housing as a designer, production supervisor, or sales representative

17. How much time will I spend on Computer Aided Drafting (CAD)?

You will receive approximately 120 hours of formal training on CAD before the end of the fourth term or your program. In many of the other courses in the program, students will prepare both CAD and manually drawn projects. In some cases students will be able to choose whether or not to complete a drawing manually or on CAD.

NEIT has found that the best way to learn a software package such as CAD is through the student's independent practice. After you have received the formal introduction to CAD, you will work on your own exploring the CAD system. Instructors and lab assistants will be available to answer questions that come up for you; however, it is essential that you take personal responsibility for mastering the software package.

18. Will I be able to continue toward a bachelor's degree?

Yes. Students who have successfully completed the Associate Degree program in Architectural/Building Engineering Technology with a grade point average of 2.0 or better, may continue in the Bachelor Degree Program in Architectural/Building Engineering Technology.

NEW ENGLAND TECH

Architectural Building Engineering Technology
Associate in Science Degree
(For students entering their technology
October 2018 – 201910 or later)

Technical Standards

These technical standards set forth by the Architectural Building Engineering /Interior Design Technology Programs Department; establish the essential qualities considered necessary for students admitted to these programs to achieve the knowledge, skills and competencies to enter these fields. The successful student must possess the following skills and abilities or be able to demonstrate that they can complete the requirements of the program with or without reasonable accommodation, using some other combination of skills and abilities.

Cognitive Ability:

- Ability to interpret ideas and concepts visually and/or graphically
- Ability to learn, remember and recall detailed information and to use it for problem solving.
- Ability to deal with materials and problems such as organizing or reorganizing information.
- Ability to use abstractions in specific concrete situations.
- Ability to break information into its component parts.
- Ability to understand spatial relationships.
- Possession of basic math skills through addition, subtraction, multiplication and division of whole numbers and fractions using both the U.S. and Metric systems of measurement.
- Ability to perform tasks by observing demonstrations.
- Possession of basic keyboarding skills and knowledge of computer programs.

Communications Skills:

- Ability to communicate effectively with faculty and students.
- Ability to demonstrate and use the knowledge acquired during the classroom training process and in the lab setting.

Adaptive Ability:

- Ability to maintain emotional stability and the maturity necessary to interact with other members of the faculty and students in a responsible manner.

Physical Ability:

- Ability to stand and/or sit for long periods of time.
- Ability to perform learned skills, independently, with accuracy and completeness.

Manual Ability:

- Sufficient motor function and sensory abilities to participate effectively in the classroom laboratory.
- Sufficient manual dexterity and motor coordination to coordinate hands, eyes and fingers in the use of the computer, plotter and other equipment.

Sensory Ability:

<u>Visual</u>

- Acute enough to enable the adjustment of drafting equipment
- Ability to properly distinguish colors.
- Acute enough to read small print.
- Acute enough to read small numbers on measuring instruments