

## **General Information**

The Associate in Science Degree in Plumbing and Heating is a program offered jointly through the Plumbing Department and the Heating Department.

Plumbing/Heating is a comprehensive program designed to train students as entry-to-industry level technicians. Students are taught the basic theory and practices of plumbing and heating and receive hands-on experience in a laboratory setting. The program offers a curriculum combining two distinct but interconnected areas: heating in residential structures and plumbing in residential, commercial, and industrial structures.

The four-term plumbing portion of the program includes the study of basic tools; methods of fabrication; fitting identification and usage; drainage; waste and venting; water piping methods and design; sewage disposal and treatment; water sources and distribution; and household and industrial maintenance. Sustainability issues using rainwater harvesting and gray water technology are stressed.

In the heating portion of the program (distributed over two terms), various heating systems are examined such as steam, warm air, and forced hot water. Also presented are the burners used in conjunction with these systems and their associated control circuitry. Special consideration is given to electrical wiring, heat loss calculations, and system design as they relate to a residential and commercial application. Included in the Heating Program are courses in the installation of heating systems, gas technology, solar heating systems, and introduction to welding.

The theory and lab experience include the design, installation, troubleshooting, and servicing of a vast array of heating units.

Graduates are prepared for technician positions in the plumbing and heating industry. In addition, graduates of this program area are eligible to continue on for a Bachelor of Science Degree in Business Management.



## **Program Mission, Goals and Outcomes**

### **PLUMBING DEPARTMENT**

#### **Program Mission**

The mission of the Plumbing Technology program is to provide Associate Degree in Plumbing and Heating Technology. The program offers a curriculum combining two distinct but interconnected areas: heating, with residential structures; and plumbing, with residential, and light commercial structures. Through a combination of classroom theory and hands-on laboratory training, students are given the opportunity to acquire the skills required for entry-level employment in the plumbing and heating industry.

#### **Program Goals**

1. The PLB program will provide students with the appropriate knowledge and skills in basic construction methods and blueprint reading; using basic plumbing tools; methods of fabrication; fitting identification and usage; drainage; waste and venting; water piping methods and design; sewage disposal and treatment; water sources and distribution; and residential and light commercial maintenance.
2. The heating portion of the PLB program will examine various heating systems such as steam, warm air, forced hot water and gas-fired equipment as well as the burners used in conjunction with these systems and their associated control circuitry.

### **PLUMBING DEPARTMENT**

#### **Program Outcomes**

Graduates of this program will be able to:

1. Produce piping installations from specification sheet guidelines utilizing appropriate tools and pipefitting techniques with ABS, PVC, no-hub cast iron, threaded black iron, copper, CPVC and PEX pipe and fittings.
2. Design and install a residential kitchen and bathroom from rough-in to finish fixture placement utilizing an ABS or PVC drainage, waste and vent system and a copper or CPVC branch style potable water supply system that meets current International Plumbing Code standards.
3. Install and repair residential and light commercial bathroom plumbing fixtures, and their respective potable water supply and drainage trap connections.
4. Design and install a shallow well jet, deep well submersible and jet pump booster system for potable water or grey water supply. Design and install a submersible sump or sewage pump system for waste water drainage or rainwater harvesting.
5. From a residential floor plan drawing – size the plumbing system, create isometric plumbing system drawings, estimate pipe, fittings, materials and fixtures, and estimate the labor hours needed to install a complete, code approved plumbing system.

### **HEATING DEPARTMENT**

#### **Program Outcomes**

Graduates of this program will be able to:

1. Exhibit knowledge of combustion efficiency testing using instruments. Special consideration is given to electricity and wiring, and heat loss calculations and system design as they relate to a residential application.
2. Demonstrate a procedure for testing electrical circuits by using a Volt-OHM-Milliamp Meter.
3. Calculate heat loss for single-family dwellings and small commercial buildings and properly design a multi-zone series loop system for that structure.
4. Design a fuel delivery system with natural gas and propane for a residential and light commercial application and develop a complete parts list for the installation of that system in accordance with NFPA 54.
5. Install and troubleshoot heating controls for the following parameters: temperature, humidity, pressure and ventilation to create an efficient system.
6. Install furnaces and boilers with ductwork and piping.

**Curriculum**

**Term I**

Course No.		Course Title	C	L	T
PL	114	Pipe Fitting Basics	4	0	4
PL	119	Pipe Fitting Basics Lab	0	6	3
PL	118	Blueprint Reading and Drafting	3	0	3
AH	101	Introduction to the P-RACH Industry	1	0	1
ELY	135	OSHA Construction Safety & Health	2	0	2
			<b>10</b>	<b>6</b>	<b>13</b>

**Term II**

Course No.		Course Title	C	L	T
PL	124	Drainage, Waste and Vent Design	4	0	4
PL	127	Drainage, Waste, Vent and Potable Water Systems Lab	0	6	3
PL	126	Potable Water Piping Design	3	0	3
MA	105	Basic College Math with Lab (MA/SCI Core)	4	2	5
			<b>11</b>	<b>8</b>	<b>15</b>

**Term III**

Course No.		Course Title	C	L	T
PL	230	Plumbing Fixture, Appliance and Appurtenance	4	0	4
PL	235	Plumbing System Design and Fixture Install Lab	0	6	3
PL	232	Troubleshooting and Repair	1	2	2
AH	125	Basic Electricity	2	0	2
AH	118	Basic Electricity Lab	0	4	2
MA	125	Technical Math I (MA/SCI Core)	4	0	4
			<b>11</b>	<b>12</b>	<b>17</b>

**Term IV**

Course No.		Course Title	C	L	T
PL	240	Pump System Design	4	0	4
PL	245	Pump System Design Lab	0	6	3
PL	246	Final Project	2	0	2
<i>ELECTIVE</i>		100-200 Level Humanities Core	4	0	4
EN	106	Service Industry Communications (COM Core)	5	0	5
			<b>15</b>	<b>6</b>	<b>18</b>

**Term V**

Course No.		Course Title	C	L	T
AH	234	Modern Heating Systems	4	0	4
AH	235	Modern Heating Systems Lab	0	4	2
AH	238	Gas Heating Systems	4	0	4
AH	242	Gas Heating Systems Lab	0	6	3
<i>EN</i>	<i>100</i>	<i>Introduction to College Writing (COM Core)</i>	<i>4</i>	<i>0</i>	<i>4</i>
			<b>12</b>	<b>10</b>	<b>17</b>

**Term VI**

Course No.		Course Title	C	L	T
AH	240	Blueprints, Pipe Fitting and Duct Layout	4	0	4
AH	241	Blueprints, Pipe Fitting and Duct Layout Lab	0	4	2
MT	114	Marine Welding and Cutting	1	3	2
<i>BU</i>	<i>236</i>	<i>Small Business and the Law (SS Core)</i>	<i>4</i>	<i>0</i>	<i>4</i>
<i>ELECTIVE</i>		<i>100-200 Level Humanities Core</i>	<i>4</i>	<i>0</i>	<i>4</i>
			<b>13</b>	<b>7</b>	<b>16</b>
<i>Total Quarter Credit Hours = 96</i>					

**Legend**

C = Number of lecture hours per week

L = Number of laboratory hours per week

T = Total Quarter Credit 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 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 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 Core Elective Areas<sup>1</sup>**

**To obtain a minimum of 8 courses (32 credits), students may choose from the following course selections:**

- 2 courses (minimum) from the Communications Core**
- 2 courses (minimum) from the Math/Science Core**
- 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**

### **Associate Degree Courses by Core<sup>1</sup>**

#### **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 105 Basic College Math with Lab  
MA 110 Introduction to College Math  
MA 109 Math for Life Science  
MA 121 Business Math  
MA 124 Technical Math I with College Algebra  
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 204 Introduction to Theater  
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 20<sup>th</sup> 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 4 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 206 Constitutional Values in the 21<sup>st</sup> Century  
SS 221 Technology and American Life  
SS 222 Mindful Living

1. Subject to Change

**Degree Progress Checklist**

Check off each completed course.

**Technical Course Requirements**

T1	AH	101	_____
	PL	114	_____
	PL	118	_____
	PL	119	_____
	ELY	135	_____

T2	PL	124	_____
	PL	127	_____
	PL	126	_____

T3	AH	118	_____
	AH	125	_____
	PL	230	_____
	PL	232	_____
	PL	235	_____

T4	PL	240	_____
	PL	245	_____
	PL	246	_____

T5	AH	234	_____
	AH	235	_____
	AH	238	_____
	AH	242	_____

T6	AH	240	_____
	AH	241	_____
	MT	114	_____

**Liberal Arts Core Requirements**

**7 Required Courses**

Communications Core			
#1	EN 106	T4	_____
#2	EN 100	T5	_____

Math/Science Core			
#3	MA	105	T2 _____
#4	MA	125	T3 _____

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

Humanities Core*			
#5	100-200 Level HU elective	T4	_____
#6	100-200 Level HU elective	T6	_____

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

Social Sciences Core			
#7	BU 236	T6	_____

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

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.

## **Course Descriptions**

### **AH 101 Introduction to the P-RACH Industry**

*1 Class Hour 1 Quarter Credit Hour*

Students entering the Plumbing, Heating, and Refrigeration trades will be introduced to technology-related personal skill development that affects their employability. They will investigate the daily tasks and career opportunities their chosen trades will present to them, including the physical abilities and requirements associated with these technologies. Students will take an historical look at these technologies to get a better understanding of how these technologies make life better for others, develop an intrinsic satisfaction of working with their hands to perform specialized tasks, and the importance of lifelong learning to develop and apply new skills in these ever-changing technologies.

### **AH 118 Basic Electricity Lab**

*4 Lab Hours 2 Quarter Credit Hours*

*Pre/Co-requisite: AH 125*

Students work on projects concerned with the use of voltmeters, ammeters, ohmmeters, watt meters, and capacitor bridges. Other projects include: proving the effects of voltage drop, high resistance contacts, shorts and opens, and related preventive maintenance. Students will be exposed to reading wiring diagrams, building circuits from a wiring diagram, and taking readings and testing of the circuits they build to include both line and low voltage devices.

### **AH 125 Basic Electricity**

*2 Class Hours 2 Quarter Credit Hours*

Basic Electricity is intended to familiarize RACH and PLBH students with the basic theoretical and practical knowledge of electricity they will encounter in their respective technologies, as well as preparing students for more complex wiring commonly found in his/her technology. Course goals will be achieved through lectures, self-study, and an extensive laboratory experience to draw together the students' skills to master the curriculum. Components of this course are required to prepare students for the Rhode Island "PJF" license exams.

### **AH 234 Modern Heating Systems**

*4 Class Hours 4 Quarter Credit Hours*

Plumbing and RAC students will be exposed to the various heating systems they will encounter in their respective technologies. Students will briefly explore the steam plant and its operation and components within the setting of a commercial application. Students will continue their exploration with warm air heating system variations within conventional systems, including heat pumps and hybrid hydro-air systems. The final system studied will be the hydronic systems used in conventional settings. These hydronic systems studies include low mass boilers with hydraulic separators, radiant systems utilizing boilers, water heaters, and solar. Included in this course will be heat loss calculations and hydronic system design, with emphasis on pipe sizing, head pressure calculations, and layout of a series baseboard system.

### **AH 235 Modern Heating Systems Lab**

*4 Lab Hours 2 Quarter Credit Hours*

*Co-requisite: AH 234*

Students service steam, hot water, and warm air heating systems in the laboratory. Accessories and energy-conservation devices are installed as part of students' lab work. Troubleshooting procedures are analyzed on the burners. Complete combustion testing is done on operational heating units. Students make recommendations to improve the operation of these units.





**AH 238 Gas Heating Systems**

*4 Class Hours 4 Quarter Credit Hours*

Gas Technology is designed to give students a practical working knowledge of gas-fired equipment and the associated practices and procedures for the installation, troubleshooting, and servicing of this type of equipment. The objectives for the course are accomplished through the study of gas properties, combustion theory, distribution systems and regulators, various burner designs, control systems, and venting requirements set forth in the National Fuel Gas Code.

**AH 240 Blueprints, Pipe Fitting and Duct Layout**

*4 Class Hours 4 Quarter Credit Hours*

*Prerequisites: AH 234/235*

Students will study the requirements and methods for the installation of piping systems and ductwork that would be required in their respective trades. A review of blueprint reading as it pertains to these two courses of study will be presented. Proper piping materials, fittings, techniques, and fabrication will be discussed. Sheet metal design and installation considerations will also be presented. This will include cutting and fabricating ducts, installing plenums, and the installation of trunk work and take-offs.

**AH 241 Blueprints, Pipe Fitting and Duct Layout Lab**

*4 Lab Hours 2 Quarter Credit Hours*

*Prerequisites: AH 234/235*

The Lab component will allow the students, from a blueprint, to calculate, cut, and install gas piping, near boiler piping and connections to radiation. Students will also be exposed to radiant floor heating using the newest materials used for this type of system. Students will install piping and duct to create complete operational systems.

**AH 242 Gas Heating Systems Lab**

*6 Lab Hours 3 Quarter Credit Hours*

*Co-requisite: AH 238*

Gas Technology Lab students are able to apply the theory learned in class to live units in the lab. The lab experience affords students valuable hands-on application in areas such as testing, troubleshooting, and servicing on the same type of equipment that will be encountered in the field.

**ELY 135 OSHA Construction Safety & Health**

*2 Class Hours 2 Quarter Credit Hours*

As part of OSHA's Construction Safety and Health training initiative, this course examines a variety of construction industry standards that entry-level graduates will be required to apply on construction sites. Required topics include: Introduction to OSHA; electrical safety; fall protection, materials handling, storage, use and disposal; stairways, ladders, and scaffolding, excavations, confined spaces; fire prevention and protection; and occupational health and environmental controls. In order to obtain their OSHA 10-hr card, students need to pass the course with a "C" average. Attendance is mandatory.

**PL 114 Pipe Fitting Basics**

*4 Class Hours 4 Quarter Credit Hours*

*Co-requisite: PL 119*

Students are introduced to a variety of piping material, fabrication techniques and tools of the trade, safety, and mathematical approaches.

**PL 118 Blueprint Reading and Drafting**

*3 Class Hours 3 Quarter Credit Hours*

This course covers basic drawing techniques and proper use of drafting equipment. Students will be introduced to different types of drawings, associated symbols, and terminology.

**PL 119 Pipe Fitting Basics Lab**

*6 Lab Hours 3 Quarter Credit Hours*

*Co-requisite: PL 114*

Students produce piping projects utilizing tools, piping materials and the applied mathematical procedures put forth in PL 114.

**PL 124 Drainage, Waste and Vent Design**

*4 Class Hours 4 Quarter Credit Hours*

*Prerequisites: PL 114/119, PL 118*

Students are introduced to the different elements of plumbing design. Various codes and their requirements are covered. Students' designs are presented in a formal drawing.

**PL 126 Potable Water Piping Design**

*3 Class Hours 3 Quarter Credit Hours*

*Prerequisites: PL 114/119, PL 118*

Students study load calculations and appropriate sizing of domestic water systems. Various codes and methods are covered. Formal drawing presentation is a required portion of the course.

**PL 127 Drainage, Waste and Vent, and Potable Water System Lab**

*6 Lab Hours 3 Quarter Credit Hours*

*Prerequisites: PL 114/119, PL 118*

*Co-requisites: PL 124, PL 126*

Students are required to install their drainage, waste and vent, and potable water plumbing designs in a laboratory setting. The designs must be fully operational and conform to code.

**PL 230 Plumbing Fixture, Appliance and Appurtenance**

*4 Class Hours 4 Quarter Credit Hours*

*Prerequisites: PL 126, PL 127*

This course introduces students to fixtures, appliances and other related devices that are found in residential and commercial buildings. Code requirements and applications are also studied in order to balance fixture utility, rough-in needs and building design.

**PL 232 Troubleshooting and Repair**

*1 Class Hour 2 Lab Hours 2 Quarter Credit Hours*

*Prerequisites: PL 124/127, PL 126*

*Co-requisites: PL 230, PL 235*

This course explores the repair, service, and retrofit aspects of the plumbing business. Attention is given to structural concerns, repair approaches, product selection, and customer and trade relationships.

**PL 235 Plumbing System Design and Fixture Installation Lab**

*6 Lab Hours 3 Quarter Credit Hours*

*Prerequisites: PL 124/127, PL 126*

*Co-requisite: PL 230*

In this lab, students are required to design and install various plumbing systems from rough-in to finished fixtures. These will be actual working systems and meet all code requirements as well as trade practices.

**PL 240 Pump System Design**

*4 Class Hours 4 Quarter Credit Hours*

*Prerequisites: AH 125, PL 114/119, PL 118*

Students are introduced to residential and light commercial pumps and pumping systems. Students are required to design and size systems based on pump types and general requirements.

**PL 245 Pump System Design Lab**

*6 Lab Hours 3 Quarter Credit Hours*

*Co-requisite: PL 240*

Students are required to install basic water pumping systems from water source to pressurized storage tank. Various designs are used to reinforce application, component requirements and troubleshooting.

**PL 246 Final Project**

*2 Class Hours 2 Quarter Credit Hours*

*Prerequisites: PL 230/235, PL 232*

The final project is the summation of all the previous terms presented in a plumbing design which incorporates estimating and pricing. Students are required to design and draw a complete building project based on supplied specifications.

**MT 114 Marine Welding and Cutting**

*1 Class Hour 3 Lab Hours 2 Quarter Credit Hours*

This course is intended to teach students the fundamentals of using both oxy/acetylene and electric welding equipment. Students will learn the three different classes of welding, safety precautions associated with each class and will practice basic welding, brazing, and cutting techniques. Course instruction will include both MIG and TIG welding techniques.

## **Liberal Arts Courses**

### **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 204 Introduction to Theater**

*4 Class Hours 4 Quarter Credit Hours*

This course will provide students with both a theoretical and practical understanding of acting and the theatrical process as evidenced by theatrical scenes, performed by students as a final project. Theater exercises will guide students toward self-discovery in order to explore character development and the interpretation of the content/themes of various plays. Students will write character analysis essays as a method for understanding the specific elements of acting necessary to accurately portray a given character. Students will also explore the ways in which a play is translated into a production with an emphasis on differentiating the functions of the playwright, the actor, the director, set designer and other members of a production team.

#### **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.

**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.

**Community Enrichment**

**CE 101 Community Enrichment**

*1 Class Hour 1 Quarter Credit Hour*

In this course, which is part of the Feinstein Enriching America Program, each student will explore ways of enhancing the community through performing a project which provides a service to the community. The project, which may be performed over one term, will be documented in a reflection paper in which the student will reflect on the significance of the experience.

**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 Communication Skills**

*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*

This is an introductory course with an emphasis on oral communication theory and practice, providing 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 sound tracks 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*

*Prerequisite: EN 100*

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 243 The American Dream**

*4 Class Hours 4 Quarter Credit Hours*

*Prerequisite: EN 100*

This course explores the theme of work and identity by raising questions about who we are in relationship to our work and to the society in which we live: Who am I? What do I want? What is my place in the world and my status within it? Am I useful? Am I fulfilled? Can I change my circumstances? The readings for the course consist of contemporary short stories and short personal narratives in which different people talk about their jobs. Through the lens of fiction and non-fiction, students will begin to understand how literature relates to the everyday workplace and to our pursuit of the "American Dream."

**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*

*Prerequisite: EN 100 or EN 106*

*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 technical areas.

**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 technical areas.

**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 technical areas.

**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 124 Technical Math I with College Algebra**

2 Class Hours 2 Lab Hours 4 Quarter Credit Hours

Prerequisite: MA 109

Topics to be studied in this introductory algebra course include operations with signed numbers, rules for exponents, polynomial operations, solutions to linear equations in one variable, the analytic geometry of a straight line, systems of linear equations, trigonometry, vectors and their applications, basic operations with rational expressions, and quadratic equations. These topics are important in many technical fields and for the future study of physics and calculus.

**MA 125 Technical Math I**

4 Class Hours 4 Quarter Credit Hours

Prerequisite: MA 105 or MA 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 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 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*

*Prerequisite: EN 100*

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 Quarter 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: B- or better in 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*

*Prerequisite: EN 100*

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**

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*

*Prerequisite: EN 100*

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 206 Constitutional Values in the 21<sup>st</sup> Century**

*4 Class Hours 4 Quarter Credit Hours*

*Prerequisite: EN 100*

This course is an introduction to constitutional law and will utilize a historical examination of major United States Supreme Court decisions to better understand contemporary federal and state judicial interpretations of constitutional theory and individual freedoms. It will focus on government powers, the federal court system and judicial review. It will also closely examine those individual freedoms guaranteed under the Bill of Rights and will critically analyze the controversial issues of gun control and the death penalty. Students will also understand how the interpretation of the Constitution involves the application of individual and societal values. These topics will be reinforced through case briefs, persuasive essays, current event worksheets, group activities, debates and media presentations.



**SS 221 Technology and American Life**

*4 Class Hours 4 Quarter Credit Hours*

*Prerequisite: EN 100*

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 a.m.), or mid-afternoon. The time slot for your program 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 campus.

### **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. This technology is a six-term curriculum, and 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 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 for courses in which the student has earned a "C" or above. 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-entrees 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 all aspects of the job search, including resume writing, interviewing skills, and developing a job search strategy. Upon completion of their program, 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 aspects of this program is the ability to look nationally for employment opportunities.

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

Because of the complex nature of state licensing requirements and because those requirements change periodically, NEIT cannot list all the requirements for the various types of licenses in the various states.

Under current Rhode Island law, a student who obtains an associate degree in plumbing and has been registered with the Rhode Island Department of Labor and Training as an apprentice plumber for at least two (2) years and is employed as a registered apprentice by a duly licensed master plumber in Rhode Island for a period of two (2) years, may sit for the test for a journeyperson's license in Rhode Island. (R.I.G.L. Section 5-20-17).

NEIT IS NOT RESPONSIBLE FOR ANY CHANGES IN LICENSING REQUIREMENTS THAT ANY STATE LEGISLATURE MAY IMPLEMENT AT ANY TIME, INCLUDING RHODE ISLAND.

## **Technical Standards**

These technical standards set forth by the Refrigeration/ Air Conditioning, Heating and Plumbing Departments, 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 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 demonstrate and use the knowledge acquired during the classroom training process and in the lab setting.

### **Communications Skills:**

- Ability to communicate effectively with others including faculty and students.

### **Adaptive Ability:**

- Ability to respond in an appropriate manner to stressful situations.
- 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 perform tasks requiring bending, stooping, squatting, kneeling, lying, climbing and walking.
- Ability to lift, lower, push, and pull using both arms and legs.
- Ability to grasp, lift and carry tools and equipment weighing fifty (50) pounds 50 - 500 feet from truck to work area.
- Ability to climb stairs and ladders to 25 feet.
- Agility and strength sufficient to allow bodily maneuvering in small spaces.
- Sufficient strength and agility to grasp and maintain tension for long periods of time.
- Ability to wear and tolerate ear plugs, safety glasses and other protective equipment.
- Ability to perform learned skills, independently, with accuracy and completeness within reasonable time frames in accordance with procedures.

### **Manual Ability:**

- Sufficient manual dexterity and fine motor coordination to manipulate small objects within a limited space.
- Sufficient manual dexterity and motor coordination to coordinate hands, eyes and fingers in the operation of tools and other equipment.

### **Sensory Ability:**

#### **Visual**

- Acute enough to distinguish colors, read blueprints, inspect equipment for proper installation and work in dimly lit areas such as basements and boiler rooms.
- Acute enough to read small print.
- Acute enough to read small numbers on precision measuring instruments.

**Auditory**

- Auditory ability, acute enough to detect sounds, changes in sounds, or lack of sounds emitted by heating and air-conditioning equipment.

**Student Acknowledgement of Receipt of Documents**

**Plumbing/Heating/Gas Technology**

I acknowledge that I have received copies of the following documents for the above program:

- 1) Program Description
- 2) Curriculum
- 3) Course Descriptions
- 4) Q&A
- 5) Technical Standards

I understand that it is my responsibility to read these documents. I have been advised that should I have any questions related to the content of any of these documents, I may contact my admissions officer who will review the material with me.

I further understand that NEIT reserves the right, in response to industry demands, to change the contents of these documents without prior notice. Copies of the most recent versions of these documents may be obtained in the Admissions Office.

**Printed Name of Student** \_\_\_\_\_

**Student Signature** \_\_\_\_\_ **Date** \_\_\_\_\_