

General Description

The Cybersecurity and Network Engineering program is designed to prepare graduates for careers in the networking and cybersecurity industries. The Bachelor of Science degree is ideal for students who already possess an Associate in Science degree in Network Engineering or a related discipline and continues on the base built during the associate degree, giving students more extensive experience in the management of Local Area Networks (LANs), intranets, Wide Area Networks (WANs) and exposure to configuring and managing web servers. The curriculum includes core topics in the realm of cybersecurity, such as: computer systems, mobile and network forensics, Windows and Linux security and incident response.

Students will learn best practices for the design of secure modern networks as well as how to secure existing computers and networks. Students will learn about evolving threats and the proper use of specific security tools. Both security theory and hands-on practice are stressed.

A key feature of this program is a senior project and the opportunity to choose between additional coursework or a cooperative learning experience in the final two terms. In the senior project, each student works with a faculty member to develop and present a project that focuses in depth on a particular topic and allows students to bring together knowledge gained throughout the program.

The cooperative learning experience, based on industry demand and with the approval of the IT Department Chair, may be available during the final two terms of the program. These experiences, which may be paid or unpaid, allow students to receive college credit and to work off campus in an organization where they will practice and enhance their technical skills. Typically, and when available, students will work in the same organization for the final two terms of the bachelor's degree program.

Graduates of this program will be eligible to take such internationally recognized certification exams as the CompTIA Security + and Network+ exams, the Cisco Certified Network Associate Certification (CCNA), and the Microsoft Certified System Administrator (MCSA).

With a Bachelor of Science degree in Cybersecurity and Network Engineering, students can compete for positions like: systems operations and maintenance professional, network security specialist, digital forensics and incident response specialist, vulnerability analyst, and LAN managers. Positions in law enforcement will also be attainable. While the emphasis of the program is on network security, graduates are qualified for positions advertised as network administrators, network engineers and network analysts. Upon successful completion of this program, students can also continue into the NEIT Master of Science in Information Technology degree program.



Program Mission, Goals and Outcomes

Program Mission:

The mission of the Cybersecurity and Network Engineering bachelor program is to provide preparation for the field of information technology with a focus on cybersecurity and network engineering. Through a combination of theory, labs, and optional field experience, the program emphasizes application of knowledge to the specifications and requirements of the cybersecurity, information assurance, network engineering and computer support industries, and teaches students to strive towards providing and enhancing a productive business environment. The Cybersecurity and Network Engineering bachelor program is designed to provide more depth and breadth with topics learned in the Information Technology Network Engineering associate program, and to introduce more advanced concepts and practices with topics beyond what was covered in that program.

Program Goals:

1. Through participation in a Senior Project or Internship, provide appropriate learning opportunities for students to acquire the theoretical knowledge, applicable skills, and the professional attitude necessary to function as an IT professional requiring intermediate and advanced skills.
2. Educate students in the skills required to gather and analyze information required to successfully translate business scenarios into technical solutions through appropriate design, implementation, and troubleshooting.
3. Cultivate every student's ability to critically analyze advanced IT problems, and efficiently and correctly troubleshoot those problems.
4. Provide an environment that encourages self-learning and lifelong learning by furthering each student's ability to adapt to and incorporate new concepts, ideas, and evolving technologies.
5. Strive to instill in each student a sense of professional commitment and integrity with respect to the security and privacy of clientele and information, the rights of copyright holders, and the inherent responsibilities of license users.
6. Help prepare students to acquire various entry and intermediate level industry certifications.

Program Outcomes:

Graduates of this program will be able to:

1. Apply practical and theoretical Network Engineering knowledge based upon the foundation concepts defined in an integrated environment, while understanding how proper design applies to information security.
2. Research, formulate and critique security policies regarding the collection, preservation, safeguarding and disposition of personal and organizational information by performing risk management and threat awareness.
3. Create, follow, and meet objectives of a project plan and recognize the need for adaptation, adjustments, and restructuring of the plan, both as an individual IT professional, and in a team environment.
4. Develop organizational business continuity plans and implement them by analyzing digital evidence to determine user and intruder activity on systems.
5. Demonstrate effective oral and written communications with supervisors, subordinates, team members and clients. In particular students should exhibit lucid, clear and concise technical and professional communication as well as be able to communicate complex technical ideas in layman's terms to non-technically trained people.
6. Provide network and system administration support with security auditing services in a responsible and ethical manner that complies with applicable laws and regulatory standards.

Sequence A – Curriculum

For evening students who start Q7 in the Spring term or Day students who start Q7 in the Fall term.

Term VII					
Course No.		Course Title	C	L	T
IT	378	Database Management	2	4	4
NE	381	Design and Implementation of an Active Directory Network	2	4	4
NE	385	Linux System Administration	2	4	4
CHOOSE ONE					
EN	322	Argumentative Research Writing (COM Core, preferred)	4	0	4
EN	331	Research Writing in the Social Sciences (COM Core)	4	0	4
			10	12	16

Term VIII					
Course No.		Course Title	C	L	T
CYB	394	Windows Security	2	4	4
CYB	408	Linux Security	2	4	4
NE	405	Mail Servers	3	2	4
MA	210	Technical Math II (MA/SCI Core)**	4	0	4
			11	10	16

Term IX					
Course No.		Course Title	C	L	T
CYB	373	Penetration Testing	2	2	3
NE	371	Network Scripting	2	2	3
NE	415	Scaling Networks	2	2	3
<i>ELECTIVE</i>	<i>300-400 Level Communications Core</i>		4	0	4
			10	6	13

Term X					
Course No.		Course Title	C	L	T
IT	374	IT Project Management	3	0	3
NE	406	Router Security and Firewall Management	2	2	3
NE	407	Virtualization	2	2	3
<i>ELECTIVE</i>	<i>300-400 Level Humanities or 200 Level Foreign Language Core</i>		4	0	4
<i>ELECTIVE</i>	<i>300-400 Level Math/Science Core</i>		4	0	4
			15	4	17



Term XI					
Course No.		Course Title	C	L	T
CYB	409	Web Application Security	2	2	3
CYB	412	Network Security	2	4	4
NE	418	Network Analysis and Design	2	2	3
<i>ELECTIVE</i>		<i>300-400 Level Social Sciences Core</i>	4	0	4
			10	8	14

OR Term XI					
Course No.		Course Title	C	L	T
IT	415	Cooperative Learning I*	0	18	6
<i>ELECTIVE</i>		<i>300-400 Level Social Sciences Core</i>	4	0	4
CHOOSE ONE					
CYB	409	Web Application Security	2	2	3
CYB	412	Network Security	2	4	4
NE	418	Network Analysis and Design	2	2	3
			6	20/ 22	13/ 14

Term XII					
Course No.		Course Title	C	L	T
NE	425	Network Engineering Senior Project	0	6	3
<i>ELECTIVE</i>		<i>300-400 Level Humanities, Social Sciences, or 2-00 Level Foreign Language Core</i>	4	0	4
CHOOSE ONE SET					
CYB	423	Incident Response	2	2	3
CYB	426	Advanced Information Security	1	4	3
-or-					
IT	425	Cooperative Learning II*	0	21	7
			4/7	12/ 27	13/ 14
<i>Total Quarter Credit Hours = 89/90</i>					

*The cooperative learning experience replaces two courses and may be taken with the approval of the IT Department Chair.

**Note: If you had MA 210 in your AS program, you will need to take a Humanities/Social Sciences Core elective in its place.

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 bachelor's degree students are required to take 28 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.

Subject to change.

Sequence B – Curriculum

For evening students who start Q7 in the Fall term or Day students who start Q7 in the Spring term.

Term VII					
Course No.		Course Title	C	L	T
CYB	373	Penetration Testing	2	2	3
NE	371	Network Scripting	2	2	3
NE	415	Scaling Networks	2	2	3
CHOOSE ONE					
EN	322	Argumentative Research Writing (COM Core, preferred)	4	0	4
EN	331	Research Writing in the Social Sciences (COM Core)	4	0	4
			10	6	13

Term VIII					
Course No.		Course Title	C	L	T
IT	374	IT Project Management	3	0	3
NE	406	Router Security and Firewall Management	2	2	3
NE	407	Virtualization	2	2	3
MA	210	Technical Math II (MA/SCI Core)**	4	0	4
			11	4	13

Term IX					
Course No.		Course Title	C	L	T
IT	378	Database Management	2	4	4
NE	381	Design and Implementation of an Active Directory Network	2	4	4
NE	385	Linux System Administration	2	4	4
ELECTIVE		300-400 Level Communications Core	4	0	4
			10	12	16

Term X					
Course No.		Course Title	C	L	T
CYB	394	Windows Security	2	4	4
CYB	408	Linux Security	2	4	4
NE	405	Mail Servers	3	2	4
ELECTIVE		300-400 Level Humanities (or Arts/Foreign Language) Core	4	0	4
ELECTIVE		300-400 Level Math/Science Core	4	0	4
			15	10	19



Term XI					
Course No.		Course Title	C	L	T
CYB	409	Web Application Security	2	2	3
CYB	412	Network Security	2	4	4
NE	418	Network Analysis and Design	2	2	3
<i>ELECTIVE</i>		<i>300-400 Level Social Sciences Core</i>	4	0	4
			10	8	14

OR Term XI					
Course No.		Course Title	C	L	T
IT	415	Cooperative Learning I*	0	18	6
<i>ELECTIVE</i>		<i>300-400 Level Social Sciences Core</i>	4	0	4
CHOOSE ONE					
CYB	409	Web Application Security	2	2	3
CYB	412	Network Security	2	4	4
NE	418	Network Analysis and Design	2	2	3
			6	20/ 22	13/ 14

Term XII					
Course No.		Course Title	C	L	T
NE	425	Network Engineering Senior Project	0	6	3
<i>ELECTIVE</i>		<i>300-400 Level Humanities, Social Sciences, or Arts/Foreign Language Core</i>	4	0	4
CHOOSE ONE SET					
IT	425	Cooperative Learning II*	0	21	7
-or-					
CYB	423	Incident Response	2	2	3
CYB	426	Advanced Information Security	1	4	3
			4/7	12/ 27	13
<i>Total Quarter Credit Hours = 88/89</i>					

*The cooperative learning experience replaces two courses and may be taken with the approval of the IT Department Chair.

**Note: If you had MA 210 in your AS program, you will need to take a Humanities/Social Sciences Core elective in its place.

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 bachelor's degree students are required to take 28 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.

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.

Bachelor’s Degree Core Elective Areas¹

To obtain a minimum of 7 courses (28 credits), students may choose from the following course selections:

- 2 courses from the Communications Core**
- 2 courses from the Math/Science Core**
- 1 course from the Humanities Core**
- 1 course from the Social Sciences Core**
- 1 course from either the Humanities Core**
OR from the Arts/Foreign Language Core
OR from the Social Sciences Core

Bachelor’s Degree Courses by Core¹

Communications Core Electives (Minimum 8 Credits)

EN 322 Argumentative Research Writing
EN 331 Research Writing in the Social Sciences
EN 421 Technical Communications
EN 422 Writing in the Health Sciences
SS 303 Communication in the Global Workplace

Math/Science Core Electives (Minimum 8 Credits)

CHM 300 Chemistry I and Lab
CHM 400 Chemistry II and Lab
MA 300 Statistics
MA 301 Math for Management Studies
MA 310 Calculus I
MA 315 Math for Game Developers
MA 320 Calculus II
PHY 300 Physics II & Lab
SCI 304 Development of Western Science
SCI 307 Understanding Science Through Photography
SCI 310 Perception of Green Living
SCI 320 Understanding Flight
SCI 330 Our History and Future in Space
SCI 333 Sports Performance Metrics
SCI 340 Introduction to Environmental Health
SCI 350 Introduction to Genetics and Evolution
SCI 351 Sustainable Technology
SCI 360 Wellness for Life

Arts/Foreign Language Core Electives (Maximum of 4 Credits in Place of a Humanities Course)

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

Humanities Core Electives (Minimum 4 Credits)

HU 311 The Art of Film
HU 313 World War II in Film
HU 315 Cultural Competence in the Workplace
HU 320 Multicultural Voices
HU 321 Representations of Gender
HU 331 Ethics and Technology
HU 341 World Religions
HU 350 Literature and Health
HU 352 History of Rock and Roll
HU 432 History of Western Art
HU 433 Encountering 20th Century Art
HU 441 World Literature

Social Sciences Core Electives (Minimum 4 Credits)

EC 301 The Global Economy
PS 330 Marriage and the Family
PS 350 Forensic Psychology
PS 410 Applied Research Statistics
SCI 360 Wellness for Life
SO 461 Language and Society
SS 302 The United States Legal System
SS 303 Communication in the Global Workplace
SS 304 Digital Media & the Law
SS 330 Contemporary Social Issues
SS 350 Everything is a Negotiation

1. Subject to Change



Sequence A – Fall Day and Spring Evening Starts

For evening students who start T7 in the Spring term or Day students who start T7 in the Fall term.

Degree Progress Checklist

Check off each completed course.

Program Requirements

Table with 4 columns: Term, Course ID, Credits, and checkbox. Rows for T7: IT 378, NE 381, NE 385.

Table with 4 columns: Term, Course ID, Credits, and checkbox. Rows for T8: CYB 394, CYB 408, NE 405.

Table with 4 columns: Term, Course ID, Credits, and checkbox. Rows for T9: CYB 373, NE 371, NE 415.

Table with 4 columns: Term, Course ID, Credits, and checkbox. Rows for T10: IT 374, NE 406, NE 407.

Table with 4 columns: Term, Course ID, Credits, and checkbox. Rows for T11: CYB 409, CYB 412, NE 418, OR IT 415, CYB 409, CYB 412 or NE 418.

Table with 4 columns: Term, Course ID, Credits, and checkbox. Rows for T12: NE 425, Choose One Option, CYB 423, CYB 426, OR IT 425.

Liberal Arts Core Requirements

7 Required Courses

Each course = 4 credits (total of 28 credits)

Table with 4 columns: #, Core Name, Course ID, Term, Credits. Rows for #1: EN 322 (pref.) or EN 331 T7, #2: 300-400 level COM elective T9.

Table with 4 columns: #, Core Name, Course ID, Term, Credits. Rows for #3: MA 210 T8, #4: 300-400 level MA/SCI elective T10.

Table with 4 columns: #, Core Name, Course ID, Term, Credits. Row for #5: 300-400 level COM elective T10.

Table with 4 columns: #, Core Name, Course ID, Term, Credits. Row for #6: 300-400 level SS elective T11.

Table with 4 columns: #, Core Name, Course ID, Term, Credits. Row for #7: 300-400 level HU, SS or 200 level AR/FL elective T12.

*Only foreign language courses are allowed as AR/FL electives.

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.

Sequence B – Spring Day and Fall Evening Starts

For evening students who start T7 in the Fall term or Day students who start T7 in the Spring term.

Degree Progress Checklist

Check off each completed course.

Program Requirements

T7	CYB	373	_____
	NE	371	_____
	NE	415	_____

T8	IT	374	_____
	NE	406	_____
	NE	407	_____

T9	IT	378	_____
	NE	381	_____
	NE	385	_____

T10	CYB	394	_____
	CYB	408	_____
	NE	405	_____

T11	CYB	409	_____
	CYB	412	_____
	NE	418	_____
	OR		
	IT	415	_____
	CYB 409, CYB 412 or NE 418		

T12	NE	425	_____
	Choose One Option		
	CYB	423	_____
	CYB	426	_____
	OR		
	IT	425	_____

Liberal Arts Core Requirements
7 Required Courses

Each course = 4 credits (total of 28 credits)

Communications Core			
#1	EN 322 (pref.) or EN 331	T7	_____
	300-400 level COM elective	T9	_____

Math/Science Core			
#3	MA 210	T8	_____
	300-400 level MA/SCI elective	T10	_____

Humanities Core			
#5	300-400 level HU elective	T10	_____

Social Sciences Core			
#6	300-400 level SS elective	T11	_____

Humanities, Social Sciences, or Arts/Foreign Language* Core			
#7	300-400 level HU, SS or 200 level AR/FL elective	T12	_____

*Only foreign language courses are allowed as AR/FL electives.

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

CYB 373 Penetration Testing

2 Class Hours 2 Lab Hours 3 Quarter Credit Hours

In this course, students will learn how to properly use techniques employed by professional penetration testers to validate information assurance. In addition to validation techniques, students will learn anti-hacking techniques, network reconnaissance tools, buffer overflows, password cracking and other concepts related to testing and validating network defenses.

CYB 394 Windows Security

2 Class Hours 4 Lab Hours 4 Quarter Credit Hours

Prerequisite: NE 381

Students will learn how to secure and troubleshoot a Microsoft Windows-based Active Directory network environment through an integrated system of skill-building lessons, hands-on exercises, and self-assessment tools.

CYB 408 Linux Security

2 Class Hours 4 Lab Hours 4 Quarter Credit Hours

Prerequisite: NE 385

This course builds on the Linux System Administration course, reacquainting students with administrative concepts and presenting security methodologies as they relate to Linux. It will present logical concepts and provide practical applications related to Linux and the applications and methodologies utilized to secure it. Discussions will include notable hacks, hardening topics and IP Tables, which is an internal firewall feature-set within Linux. Also, the course will present methods for securing both file and file systems. Upon completion of the course, students will have an understanding of Linux subsystems and their relationship to security through successful completion of the following labs: building both a Linux workstation and server; navigating the Linux file system; checking for rootkits; server block encryption; securing Apache; configuring IP tables (Linux Firewall); and hardening the OS.

CYB 409 Web Application Security

2 Class Hours 2 Lab Hours 3 Quarter Credit Hours

Prerequisite: NE 405

Students in this course will learn common security pitfalls in web applications as well as how to avoid them. Topics include use of encryption, spoofing, phishing, session management, secure data storage and other techniques related to ensuring the protection of the application and customer data.

CYB 412 Network Security

2 Class Hours 4 Lab Hours 4 Quarter Credit Hours

Prerequisite: NE 406

In this course, students will learn the fundamentals and skills related to network security. Topics such as IPSec, Network Access Control, network asset vulnerabilities, encryption techniques used on the Internet, security certificates, phishing, spoofing, browser configuration, network perimeter security and wireless network security are covered.

CYB 423 Incident Response

2 Class Hours 2 Lab Hours 3 Quarter Credit Hours

Prerequisites: NE 267, CYB 394

Students will learn how to use forensic techniques in order to investigate and document system and network intrusions as well as malicious software incidents. System restoration techniques are also covered. Students will become adept at investigating advanced persistent threats, rogue employees, remote data breaches and other security violations.



CYB 426 Advanced Information Security

1 Class Hour 4 Lab Hours 3 Quarter Credit Hours

Prerequisites: CYB 394, CYB 408

The Advanced Information Security course is designed to prepare students to take the CompTIA Security Plus (+) certification exam and Test Out Security Pro Certification. In this course, students cover information security best practices that all businesses should adhere to and learn how to implement information security best practices in business environments.

IT 374 IT Project Management

3 Class Hours 3 Quarter Credit Hours

Students will learn what is involved in becoming a successful project manager. The course covers the foundations of IT project management: project integration, scope, time, cost, quality, human resources, communications, risk and procurement and will include case studies of multiple projects, both successful and failed.

IT 378 Database Management

2 Class Hours 4 Lab Hours 4 Quarter Credit Hours

Students will learn to administer a major DBMS such as Oracle or SQL Server. At the end of the course, students will be able to assume the role of a DBA in performing tasks such as installation of the DBMS, user management, backing up and restoring databases, replication, maintaining high availability, performance monitoring, automating administrative tasks and database security.

IT 415 Cooperative Learning I

18 Field Hours 6 Quarter Credit Hours

Prerequisite: Requires Department Chair approval

Students will use the knowledge gained through previous coursework in their program with mostly paid, planned and supervised work experiences in the public or private sector. The course allows students to enhance the practical skills necessary for success by being exposed to the reality of the world of work beyond the boundaries of the campus, enhancing their self-confidence and career direction.

IT 425 Cooperative Learning II

21 Field Hours 7 Quarter Credit Hours

Prerequisites: Requires Department Chair approval and IT 415

This course allows students to continue and expand on the experiences started in the IT 415 course. Here, hopefully in the same public or private sector organization, students increase the scope and depth of their real-world technical experiences.

NE 371 Network Scripting

2 Class Hours 2 Lab Hours 3 Quarter Credit Hours

Through the use of practical exercises, students will learn how to configure, maintain and administer a Microsoft client/server network using a Windows PowerShell. Students will work with scripting using the command line and an integrated scripting environment.

NE 381 Design and Implementation of an Active Directory Network

2 Class Hours 4 Lab Hours 4 Quarter Credit Hours

Students will learn how to configure and manage a Microsoft Windows-based Active Directory network environment through an integrated system of skill-building lessons, hands-on exercises, and self-assessment tools.

NE 385 Linux System Administration

2 Class Hours 4 Lab Hours 4 Quarter Credit Hours

Students will learn the basics of Linux technology and be exposed to the maintenance of a Linux server that other users rely on for email, Web, database, networking, or other system services. In addition to the theoretical issues covered, students will gain much practical knowledge through the use of hands-on projects designed to reinforce those concepts.



NE 405 Mail Servers

3 Class Hours 2 Lab Hours 4 Quarter Credit Hours

Prerequisites: NE 381, NE 385

In this course, students will develop skills in implementing and supporting current mail servers used in business. Students will explore techniques to fulfill the messaging and collaborative needs of a networked environment; working with the Windows, Linux OS to provide email services, instant messaging services, data conferencing services, and more. Students will also become familiar with most features of email settings and protocols (SMTP, POP, IMAP).

NE 406 Router Security and Firewall Management

2 Class Hours 2 Lab Hours 3 Quarter Credit Hours

This course introduces students to firewall management and basic router security. Topics include password protection, securing VTY connections, logging, SSH, firewall management using the ASA 5510 Adaptive Security Appliance.

NE 407 Virtualization

2 Class Hours 2 Lab Hours 3 Quarter Credit Hours

This course explores the use of virtualization. Concentration is on the implementation and maintenance of virtual machine infrastructures with emphasis on server-class virtual images. The differing virtualization techniques, such as full, OS, and paravirtualization will be examined. In addition, vendor offerings and open source options will be compared. The techniques used to move physical machines to the virtual domain will be evaluated and applied, as well as system security, patch management, backups, disaster recovery, and system runtime and response.

NE 415 Scaling Networks

2 Class Hours 2 Lab Hours 3 Quarter Credit Hours

Prerequisite: NE 257

This course introduces students to the strategies associated with scaling networks. Students learn about the Hierarchical Network and the Cisco Enterprise Architectural Design models. The course explains how to manage the different implementations of Spanning Tree Protocol in a switched converged network and the concepts associated with EtherChannel technology. Students will learn how to configure a router for both EIGRP and OSPF routing protocols within a network topology, and students will develop the knowledge and skills necessary to implement a WLAN in a small-to-medium network.

NE 418 Network Analysis and Design

2 Class Hours 2 Lab Hours 3 Quarter Credit Hours

Prerequisites: NE 406, NE 415

Students will continue to develop and utilize critical thinking skills as they perform technical analysis of operational networks. The operational networks will include LAN, WAN and Firewall technologies from previous degree coursework. The course will also provide students with a team approach to learning. Students will participate in a team environment that will design, document, construct and troubleshoot a physical network topology from written needs assessment.

NE 425 Network Engineering Senior Project

6 Lab Hours 3 Quarter Credit Hours

Prerequisites: NE 381, NE 385, NE 405

Students will configure, analyze, test and troubleshoot a complex, real-world heterogeneous physical network topology based upon a course scenario within a group setting. The heterogeneous network infrastructure will include Cisco devices and server technology, to include: routers, switches, firewalls, Windows servers, mail servers, Linux servers, database servers and others. Students will be required to provide written progress reports, final course deliverables and presentations.

Liberal Arts, Math and Science Courses
Bachelor's Degree

Community Enrichment (Social Science Core)

CE 301 Community Enrichment

1 Quarter Credit Hour

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 300 Chemistry I and Lab

3 Class Hours 2 Lab Hours 4 Quarter Credit Hours

Prerequisites: MA 125

Topics covered include atomic structure, the periodic law, and nature of the chemical bond, chemical reactivity, stoichiometry, and acid base reactions.

CHM 400 Chemistry II and Lab

3 Class Hours 2 Lab Hours 4 Quarter Credit Hours

Prerequisites: CHM 101 or CHM 300 and MA 125

This course focuses on chemical reactions and related concepts. Topics include chemical bonds, solution chemistry, acids and bases, chemical equilibria, kinetics, thermodynamics and descriptive chemistry. Lecture and lab.

Economics (Social Sciences Core)

EC 301 The Global Economy

4 Class Hours 4 Quarter Credit Hours

Prerequisite: EN 322 or EN 331

This course is an exploration of the increasingly complex global economy with particular attention to the competing political economies of Europe, the United States, and the Pacific Rim.

English (Communications Core)

EN 322 Argumentative Research Writing

4 Class Hours 4 Quarter Credit Hours

Prerequisite: EN 100

In EN 322, "Argumentative Research Writing," students engage in critical thinking, credible research, and persuasive writing. Beginning with the idea that academic and professional arguments result in a collegial exchange of ideas to pursue knowledge, this course prompts students to examine various viewpoints of a debate. The central goal for students is to produce an argument essay based on meaningful dialogue and thoughtful reflection. Students are introduced to different models of argument, persuasive appeals, logical reasoning, and visual rhetoric. The course breaks the writing process down into a series of comprehensible habits of mind and investigative skills: inquiry, active reading, critical analysis, research, communication, and documentation of sources.



EN 331 Research Writing in the Social Sciences

4 Class Hours 4 Quarter Credit Hours

Prerequisite: EN 100

In this advanced research writing course, students will read, research and evaluate social science articles and other materials in order to understand their claims, credibility and conclusions. Students will conduct an extensive literature review on a topic of their choice resulting in an APA-formatted research paper including an abstract and reference section. Utilizing writing workshops, students will write coherent and unified texts, including effective introductions, clear thesis statements, supporting details, transitions, and strong conclusions.

EN 421 Technical Communications

4 Class Hours 4 Quarter Credit Hours

Prerequisite: EN 322 or EN 331

EN 421 is an advanced writing course designed to help students achieve mastery in presenting complex content. This course encompasses writing for a broad range of technical and general audiences in virtually all media. Students will reinforce their ability to analyze audience, purpose, and content. Additionally, students will learn how to plan and organize content to meet goals, use graphics effectively, and deliver an oral presentation.

EN 422 Writing in the Health Sciences

4 Class Hours 4 Quarter Credit Hours

Prerequisite: EN 322 or EN 331

EN 422 is an advanced writing course focusing on written communication common in the health science professions. To better prepare students for the challenges of successful professional communication, Writing in the Health Sciences targets the three main audiences of the health provider: other professionals, patients and clients, and the public. For each of these audiences, students will master writing techniques and practices to ensure that their message is being understood and that their professional voices are being heard at all levels of the health care organization.

Humanities (Humanities Core)

HU 311 The Art of Film

4 Class Hours 4 Quarter Credit Hours

Prerequisite: EN 100

This course is a survey of films that have significantly contributed to the development of film as an art and as an industry. Topics of discussion include filmmaking techniques and theories of criticism.

HU 313 World War II in Film

4 Class Hours 4 Quarter Credit Hours

Prerequisite: EN 100

The Second World War has remained a great thematic source for today's filmmakers. This course will examine films made about World War II. After watching each film, students will analyze the way the films address such themes as patriotism, leadership, moral responsibility, heroism, cowardice, survival, comradeship, and readjustment to peacetime conditions. The films will also be analyzed through discussion, reading, research and writing, in terms of the contribution of these films in developing a better understanding of current military conflicts.

HU 315 Cultural Competence in the Workplace

4 Class Hours 4 Quarter Credit Hours

Prerequisite: EN 100

Students of all disciplines must be ready to engage in a globally connected world requiring an understanding of cultural norms, differences, and beliefs which effect the workplace. This course will examine the students' understanding of what culture is and what each citizen of a global world will need to provide knowledge, skills, and an attitude inherent in a culturally responsive manner.

HU 320 Multicultural Voices

4 Class Hours 4 Quarter Credit Hours

Prerequisite: EN 100

This course will examine literary works that cross the boundaries of national lines and cultures and reflect the experiences that occur in the diverse United States. How do we learn to understand our own and different cultural identities and practices through interactions with others? What role does the experience of immigrants play in how we decide what is American culture? The purpose of this course is for all of us to gain an understanding and appreciation of culture, cultural values, and perspectives by reading various works, in different genres, written by authors of a variety of racial, ethnic, and national backgrounds.

HU 321 Representations of Gender

4 Class Hours 4 Quarter Credit Hours

Prerequisite: EN 100

HU 321 is an advanced course that analyzes portrayals of gender in both written and visual text including literature, film, and television to find patterns of meaning that illuminate human nature and society. Additionally, it will explore how gender intersects with other social constructs like race, ethnicity, and sexual orientation.

HU 331 Ethics and Technology

4 Class Hours 4 Quarter Credit Hours

Prerequisite: EN 100

This course will explore the basic concepts of ethical theories and ethical values and apply these to technologically-based dilemmas through case studies. These dilemmas will be considered in terms of their implications both for individuals, and for professionals involved in creating and maintaining technology, and mechanisms will be developed to guide ethical discussions and decision-making.

HU 341 World Religions

4 Class Hours 4 Quarter Credit Hours

Prerequisite: EN 100

In this course, students will examine religious practices surrounding life passages (birth, marriage, death), and the food, clothing, sacred calendars, sacred texts, and ethics of several major world religions.

HU 350 Literature and Health

4 Class Hours 4 Quarter Credit Hours

Prerequisite: EN 100 or its equivalent

Through the study of fiction and poetry, students broaden their understanding of two important perspectives in healthcare – that of patient and caregiver. With the ultimate goal of engendering empathy for both parties, this course requires students to read a variety of literary texts that address the social, cultural, psychological, familial, institutional, and professional dimensions of healthcare. Course requirements include close reading, lively class discussion, short oral presentations, original research, and thoughtful writing.

HU 352 History of Rock and Roll

4 Class Hours 4 Quarter Credit Hours

Prerequisite: EN 100

This course will trace the various musical forms and technological advances that have led to the American popular music of today. Particular emphasis will be given to blues and jazz and their influence on early rock and roll. In addition, a substantial portion of the course will be devoted to the technology that has led to today's sophisticated performance and recording techniques. Students will also experience some hands-on musical activities with instruments such as the guitar and keyboard that are vital components of today's music.



HU 432 History of Western Art

4 Class Hours 4 Quarter Credit Hours

This course offers students the opportunity to explore the visual arts throughout Western history. Students will develop knowledge of artists and artistic development, and increase their ability to critically appreciate a wide range of art across media, styles, and time periods. The course will emphasize painting, and will additionally examine sculpture, architecture and photography, as time permits.

HU 433 Encountering 20th Century Art

4 Class Hours 4 Quarter Credit Hours

Students will examine art produced in the 20th Century by exploring a variety of factors including: the differences in this art from what had come before; the role of the machine and technology in subject matter, technique and production; the major social movements and political events of the 20th Century and how they were represented in art; and the major movements in art in this century. Important works by major artists of this period will be studied, so that students can recognize these and similar works, and appreciate their place in popular culture. Students will learn to be comfortable with art and be able to “read” art for their own enjoyment. They will come to appreciate the notion that art, in the final analysis, is a creative expression of their world, their lives, what they see and feel and experience every day.

HU 441 World Literature

4 Class Hours 4 Quarter Credit Hours

Prerequisite: EN 100

As a result of globalization, we are interacting more often with people from other cultures. This course uses fiction, poetry, and drama from around the world to learn about other cultures.

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 300 Statistics

4 Class Hours 4 Quarter Credit Hours

Prerequisite: MA 125 or MA 200 or MA 301

This introductory course stresses the use of statistics as a management tool for decision-making. The focus is on descriptive statistics, communicating statistical data, concepts of probability distribution, estimation, and hypothesis testing.

MA 301 Math for Management Studies

4 Class Hours 4 Quarter Credit Hours

Prerequisite: MA 100/110 or MA 105 or above

MA 301 is designed to transition students from basic algebra to more advanced business applications. Specific topics include: percent increase and decrease problems; linear and quadratic functions with cost, revenue, profit, supply and demand function applications; descriptive statistics; exponential and logarithmic functions with exponential growth and decay applications; compound interest and annuities. There are video examples of how to do some problems in Excel as an introduction to that program.

MA 310 Calculus I

4 Class Hours 4 Quarter Credit Hours

Prerequisite: MA 210

Limits will be introduced, and the derivatives and integrals of algebraic functions will be studied at length. Applications include rectilinear motion, curve sketching, maxima and minima problems, related rates, and area under a curve.

MA 315 Math for Game Developers

4 Class Hours 4 Quarter Credit Hours

Prerequisite: MA 310

Students will study the essential math necessary to become a successful game developer. Topics include vectors, matrices, transformations, collision detection, random numbers, rendering techniques and optimizations.

MA 320 Calculus II

4 Class Hours 4 Quarter Credit Hours

Prerequisite: MA 310

This continuation of Calculus I begins with derivatives of transcendental functions and proceeds with their integration. Additional topics include integration by parts, partial fractions, and numerical methods. Applications of the integral to area, volume, motion, and work will be stressed.

Physics Courses (Math/Science Core)

PHY 300 Physics II & Lab

3 Class Hours 2 Lab Hours 4 Quarter Credit Hours

Prerequisites: MA 125 and PHY 200 (or PHY 126)

This is an algebraic approach to a second course in physics. The topics include: centripetal force, temperature, heat energy, mechanical waves, sound, electrostatics, and basic circuit elements. 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. Laboratory experiments will be performed to reinforce these concepts.

Psychology (Social Science Core)

PS 330 Marriage and the Family

4 Class Hours 4 Quarter Credit Hours

Prerequisite: EN 100 or its equivalent

This course is a review of psychological concepts relevant to understanding marital and family functioning. Topics will include mate selection, marital communication, intimacy, conflict resolution, transitioning to parenthood, managing crises, family violence, divorce, and balancing work, leisure and family.

PS 350 Forensic Psychology

4 Class Hours 4 Quarter Credit Hours

Prerequisite: EN 100

This course addresses the psychological issues of human behavior that surround law enforcement and the legal system. It supplements information provided by physical evidence forensics courses and offers hands-on practice by utilizing psychological techniques implemented in the field. It familiarizes students with new technologies and available databases used in investigations. The course goes beyond criminal profiling popular in today's media and explores the findings of psychological research behind such issues as eyewitness identification (memory retrieval) and interviewing (conformity and obedience). Forensic



Psychology also covers newer areas of concern such as psychological assistance in all career aspects of policing from personnel selection to dealing with the demands of the job.

PS 410 Applied Research Statistics

4 Class Hours 4 Quarter Credit Hours

PS 410 is an intermediate-level course designed to develop in students an expertise in identifying statistical approaches to research problems. Students will examine statistics and the rationale behind them. They will comprehend and interpret statistical results as they apply to their programs. Students will master the APA style of writing by dissecting the results and discussion sections of journal articles in their programs and by writing those sections using statistics learned in the course.

Science (Math/Science Core)

SCI 304 Development of Western Science

4 Class Hours 4 Quarter Credit Hours

This course centers on the interaction of science, scientists, technology and society over the past five hundred years, primarily focusing on the development of Western science. The scientific method will be examined utilizing selected case studies. Underlying principles and methodologies of science will be illustrated by comparing and contrasting both the successes and failures of science. Factors affecting the acceptance and use of science and related technologies will be examined.

SCI 307 Understanding Science Through Photography

4 Class Hours 4 Quarter Credit Hours

Prerequisite: EN 322 or EN 331

This course integrates photography and science. Students will demonstrate their understanding of science concepts through photography and written artifacts. A key to understanding concepts in science is the ability to recognize their applications in everyday use. Problem solving and evaluating discussion board postings are also part of this course. Science concepts such as motion and forces are combined with physical elements of photography such as shutter speed, focal length, and aperture. Students will design and complete a capstone project that focuses on their area of study as it relates to science. Students are expected to have basic knowledge of digital images and have the ability to upload photos. Cameras are not provided by NEIT.

SCI 310 Perception of Green Living

4 Class Hours 4 Quarter Credit Hours

This project-oriented course explores how our world views affect our perception of green living with the main focus on environmental economics. Students will engage in critical analysis of consumerism and the interaction and interdependence between our lifestyle (consumption rate) and environmental sustainability. Students will examine the shift in economic and environmental perceptions by comparing conventional economics with emerging plenitude economics. Students will apply the knowledge gained in this course to technology development strategy, career planning and personal reflection on sustainable living.

SCI 320 Understanding Flight

4 Class Hours 4 Quarter Credit Hours

This course explores a variety of real-world examples of objects moving through the air. While not an applied math course, the concepts that help understand the flight of objects are explored. Freefall, gliding, ballistics, and powered flight will be explained and studied. Both the historical development of manned flight as well as examples of flight in nature as exemplified by both birds and seeds will be investigated.



SCI 330 Our History and Future in Space

4 Class Hours 4 Quarter Credit Hours

A course investigating the history, current programs, and future of space exploration. Topics will focus on our solar system, the current search for water on Mars, and evidence of life on other planets and moons. Current events related to space exploration and Near-Earth Objects will be incorporated whenever possible. Weekly writing assignments pertaining to weekly reading assignments will be required.

SCI 333 Sports Performance Metrics

4 Class Hours 4 Quarter Credit Hours

This introductory course is intended for any student with an interest in physical fitness, exercise or wellbeing. The course will focus on the foundations of exercise testing and training while exploring the various elements of an individual's fitness profile including strength, flexibility, power, balance, speed, agility, aerobic capacity, body composition and anthropometrics. The course will also help explain how each of those fitness parameters relates to a student's ability to play a sport or participate in a hobby such as hiking, running or gardening. Finally, the course will explore various exercise program variables and designs to maintain and improve health and human performance.

SCI 340 Introduction to Environmental Health

4 Class Hours 4 Quarter Credit Hours

Environmental health is the study of the interactions between humankind and our environment. This course will explore health issues arising from exposure to environmental hazards which are the direct result of human activity – such as energy production, industry, and agribusiness. Within the framework of environmental health and sustainability, students will explore core principles of toxicology, epidemiology and risk assessment; and will apply these concepts to the analysis of emerging environmental health problems in a rapidly growing and increasingly industrialized world.

SCI 350 Introduction to Genetics and Evolution

4 Class Hours 4 Quarter Credit Hours

No prior coursework in the subject is assumed. This course begins by looking at cells and what they are. Concepts such as mitosis and meiosis will be explored. What a gene is, how it functions, and how it may be mutated will be covered. The basic principles of genetics, including patterns of inheritance (Mendelian genetics) will be studied. Additional topics include the genetic basis of genotype and phenotype, natural selection, evolution, and speciation. Students will explore recombinant DNA and genetic engineering (genetically modified foods and livestock) and the future of genetics.

SCI 351 Sustainable Technology

4 Class Hours 4 Quarter Credit Hours

Prerequisite: EN 100

What do climate changes and carbon emissions have in common? The carbon cycle. In this course students will engage in critical analysis of science components of economic and environmental sustainability. Students will analyze case study scenarios from current events and other sources and propose comprehensive steps for sustainable technology development in the context of their subject specialty. Through various projects, student will apply the knowledge gained in this course to technology development strategy, career planning and personal reflection on sustainable living.

SCI 360 Wellness for Life

4 Class Hours 4 Quarter Credit Hours

Core Fulfillment: Both Math/Science Core and Social Sciences Core

Lifestyle-related diseases are at epidemic proportions in this country. There is scientific evidence that links physical activity and positive habits to improved quality of life. This course will explore topics of health promotion, wellness, risk screening, and behavior change. Students will evaluate how lifestyle-related health problems can be impacted by positive lifestyle choices. Since optimal wellness goes beyond physical fitness and the absence of disease, students will examine the eight dimensions of wellness and design a personal wellness program to attain their health goals.

Sociology (Social Sciences Core)

SO 461 Language and Society

4 Class Hours 4 Quarter Credit Hours

Prerequisite: EN 100

This course provides students with knowledge about the role that language plays in our cognitive and social development in order to give us greater power over our interactions with others at home, at work, and elsewhere. Topics covered include: how we speak and why; is language biological or cultural; do men and women speak differently; and what is the connection between language and thought.

Spanish (Arts/Foreign Language Core)

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. 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. The course is designed for students with no prior knowledge of Spanish. **Students who speak Spanish fluently or who grew up in a home where Spanish was the primary language spoken will not be eligible to take the course.**

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. **The course is designed for students with no prior knowledge of Spanish.**

Social Sciences (Social Sciences Core)

SS 302 The United States Legal System

4 Class Hours 4 Quarter Credit Hours

Prerequisite: EN 100

This course will critically analyze whether the American legal system is truly providing equal justice for all members of our society. We will examine how legal disputes are handled and the influences that shape the structure, process and personnel of the legal system.

SS 303 Communication in the Global Workplace

4 Class Hours 4 Quarter Credit Hours

Prerequisite: EN 100

Core Fulfillment: Both Communications Core and Social Sciences Core

This course is designed to acquaint students with intercultural communication issues that arise in the workplace, culminating in a final project: making a business/occupational presentation to an audience from another culture.



SS 304 Digital Media & The Law

4 Class Hours 4 Quarter Credit Hours

Prerequisite: EN 322 or EN 331

In this course, students will examine how the existing legal structure within digital and social media operates and understand how the global shift to digital media has profoundly affected the production and control of information from a global and domestic perspective. The course is designed to introduce students to legal issues that are most relevant to careers in digital media and to individuals using digital and social media for personal interests. These topics include information access and protection, intellectual property, defamation, invasion of privacy, commercial speech, jurisdiction, internet regulations, and, of course, freedom of expression.

SS 330 Contemporary Social Issues

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.

SS 350 Everything is a Negotiation

4 Class Hours 4 Quarter Credit Hours

Prerequisite: EN 100

Program Restriction: This course not open to students in the Business Management program.

This course is intended to help students develop the skills they need to successfully negotiate their way through their work situations. Students will practice both face-to-face negotiations and negotiations carried on electronically.

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 bachelor's degree, you will take a total of approximately seven liberal arts courses, which will be scheduled around your program 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. 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 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.

6. 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.

7. 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.

8. 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.

9. 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.

10. 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.

11. 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.

12. 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.

13. 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.

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

Generally jobs will exist in the entry-level positions in the computer industry including positions such as systems operations & maintenance professional, network security specialist, digital forensics and incident response specialist and vulnerability analyst, network administrators, network engineers and network analysts.

Technical Standards

These technical standards set forth by the IT department establish the essential qualifications considered necessary for students admitted to the program. The successful student must possess the following skills and abilities or be able to demonstrate they can complete the requirements of the program with or without reasonable accommodation, using some other combination of skills and abilities.

Cognitive Ability

- Good reasoning and critical thinking skills.
- 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 separate complex information into its component parts.
- Ability to perform tasks by observing demonstrations.
- Ability to perform tasks by following written instructions.
- Ability to perform tasks following verbal instructions.
- Possession of basic keyboarding skills and knowledge of computer programs.

Communications Skills

- Ability to speak in understandable English in a classroom situation on a one-on-one basis as well as before a group.
- Ability to communicate effectively with faculty and other students.
- Ability to demonstrate and use the knowledge acquired during the classroom training process.
- Ability to verbally express technical concepts clearly and distinctly.
- Ability to express thoughts clearly.

Adaptive Ability

- Ability to remain calm in the face of computer lab equipment and/or software failure.
- Ability to maintain emotional stability and the maturity necessary to interact with members of the faculty and students in a responsible manner.
- Ability to tolerate the differences in all students, faculty, and administration.
- Ability to follow instructions and complete tasks under stressful and demanding conditions.
- Ability to adapt in a positive manner to new and changing situations with an open mind and flexibility.
- Ability to think clearly and act quickly and appropriately in stressful situations.

Physical Ability

- Ability to sit continuously at a personal computer for long periods of time in order to learn and become proficient in computer programming and networking.
- Ability to perform learned skills independently, with accuracy and completeness within reasonable time frames in accordance with classroom and business procedures.

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 operation of computers and business equipment.

Sensory Ability

Visual

- Acute enough to see clearly and interpret the contents on the computer screen.