



# Computer Info Tech: Security - Associate in Applied Science (2019-20 Catalog) with HONORS

Developmental Education Courses (if required)			<input type="checkbox"/>	MATH020	Pre-Algebra
<input type="checkbox"/>	ACLS050	Introduction to Academic Literacy	<input type="checkbox"/>	MATH022	Elementary Algebra
<input type="checkbox"/>	ENGL027	Writing Skills Workshop	<input type="checkbox"/>	MATH026	Intermediate Algebra

## SEMESTER-BY-SEMESTER PROGRAM MAP FOR FULL-TIME STUDENTS

Courses are listed in preferred order of completion  
Plans can be modified to fit student needs by adding more semesters

### Choose your courses with your Advisor

Location: B= BETH, M= MROE, S=SBTH, E= ESTN, D= DIST \*subject to change (see separate list for honors)

	complete	Course #	Course Title	Credits	Gen Ed	Fall	Winter	Spring	Summer	Pre-requisites / Co-requisites
Semester 1	<input type="checkbox"/>	COLS101	College Success	1		B, M, D	----	B, M, D	D	
	<input type="checkbox"/>	ENGL101	English I (honors option)	3	Comm	B, M, D, E	----	B, M, D, E	B, M, D	PRE: ENGL Placement Policy
	<input type="checkbox"/>	CISC100	Computer Technology I	4	CL	B, M, D	----	B, M, D	D	
	<input type="checkbox"/>	CISC105	Microcomputer Operating Systems	4		B, M	----	B, M	----	
	<input type="checkbox"/>	CISC131	Data Communications & LANs (CCENT1)	4		B, M	----	----	----	
		Total Semester Credits:		16						
Semester 2	<input type="checkbox"/>	CMTH102	Intro to Communication (honors option)	3	Comm	B, M, D	----	B, M, D	B, M, D	
	<input type="checkbox"/>	CISC286	Linux Administration	3		----	----	B, M	----	PRE: CISC105
	<input type="checkbox"/>	CISC180	Introduction to Network Security	4		B, M	----	----	----	PRE: CISC131
	<input type="checkbox"/>	ENGL151T	English II (Technical Writing)	3	Comm	B, M, D	----	B, M, D	----	PRE: ENGL101
	<input type="checkbox"/>		Technical Elective	3/4		Depends on course selected				
		Total Semester Credits:		16/17						
Semester 3	<input type="checkbox"/>	BUSA221G	Business Communication (WI)	3		B, M, D	----	B, M, D	D	PRE: ENGL151 and CMTH102
	<input type="checkbox"/>	CISC205	Cybersecurity Essentials	4		----	----	B, M	----	PRE: CISC180
	<input type="checkbox"/>	CISC280	Law & Ethics of Computer Security	3		B	----	B, M	----	PRE: CISC100
	<input type="checkbox"/>	MATH	Mathematics Elective (MATH 150)	3	QL	B, M, D	D	B, M, D	B, M, D	PRE: MATH Placement Policy
	<input type="checkbox"/>		SIT Gen Education Elective (honors option)	3	SIT	B, M, D	D	B, M, D	B, M, D	Depends on course selected
		Total Semester Credits:		16						
Semester 4	<input type="checkbox"/>	CISC282	Cybersecurity Administration	4		B, M	----	----	----	PRE: CISC180 and CISC131
	<input type="checkbox"/>	CISC284	Ethical Hacking	3		----	----	B, M	----	PRE: CISC205
	<input type="checkbox"/>		Elective (honors option)	3		B, M, D	D	B, M, D	B, M, D	Depends on course selected
	<input type="checkbox"/>		SSHB Gen Education Elective (honors)	3	SSHB	B, M, D	D	B, M, D	B, M, D	Depends on course selected
	<input type="checkbox"/>		AH Gen Education Elective (honors option)	3	AH	B, M, D	D	B, M, D	B, M, D	Depends on course selected
		Total Semester Credits:		16						
		Total Degree Credits		64/65						

General Education Requirements		
<input type="checkbox"/>		Diversity
<input type="checkbox"/>	BUSA221G	Writing Intensive

### Notes:

Mathematics Elective options: MATH 140, 145, 150, 160, 165, 175, 176, 180, 181, 202, 210, 211  
Technical Elective Options: recommend CISC 267, but CISC 115, 128, 136 or 254

AH Gen Elective Honors Courses: CMTH 220, ENGL 203, ENGL 264, ENGL 265, PHIL 201, PHIL 202G, PHIL 204  
SIT Elective Honors Courses: HIST 113, HIST 163, POLS 101, SOCA 160  
SSHB Gen Educations Elective Honors Courses: HUMA 250G, PSYC 103, PSYC 258, PSYC 265, SOCA 103  
Elective Honors Courses: ALL honors courses

Arts & Humanities (AH)
ARTA 100 Art and Visual Thinking
ARTA 101 Art History Survey
CMTH 110 Introduction to the Theatre
CMTH 111 Acting I
CMTH 115 Technical Theatre
CMTH 117 Stagecraft
CMTH 126 The Communication Arts
CMTH 189 Stage Voice and Movement
CMTH 190 Stage Production
CMTH 206 Directing
CMTH 211 Plays: Classical to Contemp. (G-WI)
CMTH 212 Acting II
CMTH 218 Theatre Portfolio
CMTH 220 Introduction to Film
DANC 101 Dance History
DANC 110 Ballet I
DANC 120 Modern Dance I
DANC 130 Jazz I
DANC 210 Ballet II
DANC 220 Modern Dance II
DANC 230 Jazz II
ENGL 201 British Literature I (G-WI)
ENGL 203 Shakespeare (G-WI)
ENGL 205 American Literature I (G-WI)
ENGL 211 Plays: Classical to Contemp. (G-WI)
ENGL 215 Multicultural Adolescent Lit (G-WI)
ENGL 250 Latin American Literature (G-WI)
ENGL 251 British Literature II (G-WI)
ENGL 253 Creative Writing
ENGL 255 American Literature II (G-WI)
ENGL 256 Modern Poetry (G-WI)
ENGL 257 20th Century Lit by Women (G-WI)
ENGL258 Fiction Writing
ENGL 260 Contemporary Literature (G-WI)
ENGL 264 Irish Literature (G-WI)
ENGL 265 African-American Literature (G-WI)
ENGL 267 Poetry Writing
HUMA 121 The American Work Experience (G-WI)
HUMA 140 Intro to Women & Gender Studies (G-WI)
HUMA 150 Nature of the Environment
HUMA210 Creativity and the Origin of Ideas
JOUR 101 Journalism and Society
Modern Language - All MDLA Courses
MUSC 101 Introduction to Music
PHIL 111 On Death and Dying (G-WI)
PHIL 121 World Religions
PHIL 201 Introduction to Philosophy
PHIL 202 Ethics and Moral Problems (G-WI)
PHIL 204 Asian Philosophies
PHIL 211 Ancient Philosophy
PHIL 215 Modern Philosophy
PHIL 225 What is Freedom?

Societies & Institutions Over Time (SIT)
CMTH 221 History of Broadcasting
GEOG 101 World Geography
GEOG 151 Geography of the U.S. and Canada (G-WI)
GLBL 130 Intro to Global Studies
GLBL 160 Field Experience & Acad Research in GS
GLBL 230 Global Studies Capstone
HIST 103 Ancient and Medieval History
HIST 113 American History I (G-WI)
HIST 121 The Black Experience (G-WI)
HIST 123 African Civilization
HIST 140 Modern Chinese History
HIST 153 Found of Mod Euro History, 1300-1815 (G-WI)
HIST 163 American History II
HIST 165 The American Experience of Warfare (G-WI)
HIST 166 Civil War and Reconstruction (G-WI)
HIST 168 History of the Middle East (G-WI)
HIST 173 Mod European History, 1815 to Present (G-WI)
HIST 210 History of Mod Science, 1859 to Present
HIST 211 History of Pennsylvania
INTS 201 Implementing Sustainable Energy System...
INTS 202 The Architecture of the City: Classic to Contemp.
POLS 101 Introduction to Political Science
POLS 105 American Constitutional Law (G-WI)
POLS 110 American National Government (G-WI)
POLS 150 Peace Studies & Conflict Resolution (Study Abroad)
POLS 170 Politics of Modern Turkey (Study Abroad)
POLS 202 International Relations
POLS 205 Women and Politics (G-WI)
POLS 251 State and Local Government (G-WI)
SOCA 102 Cultural Anthropology (G-WI)
SOCA 105 American Ethnicity
SOCA 160 Issues in Contemp.Genocide & Mass Violence

Scientific Study of Human Behavior (SSHB)
ECON 201 Macroeconomics
GEOG 121 Environmental Sustainability (G-WI)
GEOG 140 Investigating Climate Change )
GEOG 271 Intro to Geographic Info Systems
HUMA 250 Research Methods in Social Sciences (G-WI)
INTS 250 Study Abroad
PSYC 103 Introduction to Psychology (G-WI)
PSYC 205 Research Methods
PSYC 230 Introduction to Health Psychology
PSYC 235 Dev Child Psychopathology
PSYC 245 Cognitive Psychology
PSYC 255 Abnormal Psychology
PSYC 258 Developmental Psychology (G-WI)
PSYC 265 Psychology of Sex and Gender
SOCA 103 Principles of Sociology (G-WI)
SOCA 125 Sociology of Families (G-WI)
SOCA 210 Sociology of Gender

Electives for A.A. & A.S. Degrees
All courses except: 0XX-level courses; EARL221, 222

Diversity (D) Electives
BIOS 126 Environmental Science
BIOS 210 Environmental Biology
BUSA 115 Intro to International Business
CJST 250 Contemporary Issues in Criminal Justice
CMTH 126 The Communication Arts
CMTH 211 Plays: Classical to Contemporary
CMTH 215 Intercultural Communication
DANC 101 Dance History
ENGL 151L English II (Literature)
ENGL 205 American Literature I
ENGL 211 Plays: Classical to Contemporary
ENGL 215 Multicultural Adolescent Literature
ENGL 250 Latin American Literature
ENGL 251 British Literature II
ENGL 253 Creative Writing
ENGL 255 American Literature II
ENGL 256 Modern Poetry
ENGL 257 20th Century Lit by Women
ENGL 260 Contemporary Literature
ENGL 264 Irish Literature
ENGL 265 African-American Literature
ENGL 267 Poetry Writing
GEOG 101 World Geography
GEOG 121 Environmental Sustainability
GEOG 151 Geography of the U.S. and Canada
GEOG 210 Weather and Climate
GLBL 130 Intro to Global Studies
GLBL 160 Field Experience & Acad Research in GS
GLBL 230 Global Studies Capstone
HIST 113 American History I
HIST 121 The Black Experience
HIST 140 Modern Chinese History
HIST 165 The American Experience of Warfare
HIST 166 Civil War & Reconstruction
HIST 168 History of the Middle East
HIST 173 Mod Euro History: 1815-Present
HUMA 121 American Work Experience
HUMA 140 Intro to Women and Gender Studies
HUMA 150 Nature of the Environment
HUMA210 Creativity and The Origin of Ideas
INTS 201 Implement Sustain Energy Sys in Dev Com
Modern Language - All MDLA Courses
PHIL111 On Death and Dying
PHIL 121 World Religions
PHIL 204 Asian Philosophies
POLS 101 Introduction to Political Science
POLS 105G American Constitutional Law
POLS 150 Peace Studies & Conflict Resolution (Study Abroad)
POLS 202 International Relations
POLS205 Women & Politics
POLS 251 State & Local Government
PSYC 258 Developmental Psychology
SOCA 102 Cultural Anthropology
SOCA103 Principles of Sociology
SOCA 105 American Ethnicity
SOCA 150 Deviance
SOCA160 Issues in Cont Genocide & Mass Violence
SOCA204 Social Problems

**Program Narrative:**

As with the other Computer Information Technology programs at Northampton, the first year of the program is designed to provide a strong foundation of basic PC applications, client operating systems, and the basics of computer networking. In the second year you will focus on the core of computer and network security. Topics include the Security+ and Server+ curriculum, Law and Ethics, and a course in which you will build a number of secure systems and have them tested by your peers.

Completion of the Computer Information Technology program - Security Option, prepares you for an entry-level position as an Information Assurance Specialist, Security Administrator, Security Technologist, or similar.

**Program Learning Outcomes:**

- Gain fundamental and comprehensive understanding of the current field of computing upon which future growth within the field can be realized. Gain computer competencies necessary to compete in the business world.
- Use critical thinking to evaluate computing problems and explore options for their solutions. Use effective approaches for problem solving and data modeling.
- Gain experience in solving problems related to business computing and implementing these solutions. Develop awareness of the ethical concerns of computing professionals.