



Developmental Education Courses (if required)

English Placement			Math Placement		
<input type="checkbox"/>	ACLS025	Academic Reading and Writing Skills I	<input type="checkbox"/>	MATH 020	Pre-Algebra
<input type="checkbox"/>	ACLS026	Academic Reading and Writing Skills II	<input type="checkbox"/>	MATH 022	Elementary Algebra
<input type="checkbox"/>	ACLS050	Introduction to Academic Literacy	<input type="checkbox"/>	MATH 026	Intermediate Algebra
<input type="checkbox"/>	ENGL027	Writing Skills Workshop			

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

Courses are listed in preferred order of completion

Plans can be modified to fit the needs of part-time students by adding more semesters

Choose your courses with your Success Navigator or Faculty Advisor.

Complete	Semester 1					
	Course #	Course Title	Credits	Gen Ed	Term/Location Offered (Fall, Winter, Spring, Summer) (Bethlehem, Monroe, Fowler, Online)	Pre-requisites / Co-requisites (PRE / CO)
<input type="checkbox"/>	COLS101	College Success	1		FA, SP, SU; BETH, MROE, DIST	
<input type="checkbox"/>	CISC101	Introduction to Computers	3		FA, SP, SU; BETH, MROE, DIST	
<input type="checkbox"/>	EMEC101	Electrical Fundamentals	3		F, SP, SU; BETH	
<input type="checkbox"/>	EMEC114	Mechanical Skills for the Trades	2		F, SP; BETH	
<input type="checkbox"/>	ENGL101	English I	3	Communication	FA, SP, SU; BETH, MROE, DIST	PRE: ENGL Placement Policy
<input type="checkbox"/>	MATH140	College Algebra	3	QL	FA, SP, SU; BETH, MROE, DIST	PRE: MATH026 or Placement Policy
<input type="checkbox"/>	OSAH101 or OSAH 102	Construction Industry Outreach Safety Education** or General Industry Outreach Safety Education	1		F, SP; BETH	
	Total Semester Credits:		16			
Complete	Semester 2					
	Course #	Course Title	Credits	Gen Ed	Term/Location Offered	Pre-requisites/Co-requisites
<input type="checkbox"/>	CMGT104	Construction Print Reading	3		FA, SP; BETH	
<input type="checkbox"/>	ELTC107	Electrical Wiring I	3		FA, SP; BETH	PRE: EMEC101
<input type="checkbox"/>	EMEC135	Motors and Controls	4		FA, SP; BETH	PRE: EMEC101
<input type="checkbox"/>	EMEC140	Sensors, Wiring, and Troubleshooting	1		FA, SP; BETH	PRE: EMEC101
<input type="checkbox"/>	CMTH102	Introduction to Communication	3	Communication	FA, SP, SU; BETH, MROE, DIST	
<input type="checkbox"/>		AH, SIT, or SSHB General Education Elective	3	AH, SIT, or SSHB	FA, SP, SU; BETH, MROE, DIST	
	Total Semester Credits		17			
Complete	Semester 3					
	Course #	Course Title	Credits	Gen Ed	Term/Location Offered	Pre-requisites/Co-requisites
<input type="checkbox"/>	ELTC109	Electrical Wiring II	3		FA, SP; BETH	PRE: ELTC107
<input type="checkbox"/>	EMEC240	Industrial Control Systems I	4		FA, SP; BETH	PRE: EMEC101; PRE or CO: EMEC140
<input type="checkbox"/>	ENGL151T	English II (Technical Writing)	3	Communication	FA, SP, SU; BETH, MROE, DIST	PRE: ENGL101
<input type="checkbox"/>		AH, SIT, or SSHB General Education Elective	3	AH, SIT, or SSHB	FA, SP, SU; BETH, MROE, DIST	
<input type="checkbox"/>		Technical elective**	3/4		FA, SP; BETH	Depends on course selected
	Total Semester Credits		16/17			
Complete	Semester 4					
	Course #	Course Title	Credits	Gen Ed	Term/Location Offered	Pre-requisites/Co-requisites
<input type="checkbox"/>	ELTC211	National Electric Code	4		FA, SP; BETH	PRE: ELTC109
<input type="checkbox"/>	PHYS101	Physics I	4		FA, SP, SU; BETH, MROE, DIST	PRE: MATH140
<input type="checkbox"/>		Elective	3		FA, SP, SU; BETH, MROE	
<input type="checkbox"/>		Technical Elective**	2/3		FA, SP, SU; BETH	Depends on course selected
	Total Semester Credits:		13/14			
	Total Degree Credits:		62/64			

Notes:

- * OSAH 101 is the recommended selection.
- ** Eligible Technical Electives: CADM235, ELTC222, ELTC265, EMEC125, EMEC130, EMEC245, HVAC101
- For the General Education Electives, students must select one course from the list of approved courses in two of the following categories: Arts & Humanities (AH); Social Science: Societies and Institution over Time (SIT); Social Science: Scientific Study of Human Behavior (SSHB).
 - One course should be designated as Diversity and Global Awareness (D) for degree completion.
- One elective must be taken in a Writing Intensive (WI) section for degree completion.

Program Narrative:

- There has never been a more rewarding time to consider entering the electrical trades. With a large number of electricians approaching retirement age and the increasing technical complexity of new equipment, skilled electrical technicians are consistently in demand now and into the future. If you enjoy hands-on physical activities combined with complex problem solving opportunities, the electrical trade offers you a rewarding career path.
- Northampton's electrical technology program offers a range of stackable degrees; starting with a specialized diploma that can be completed in one-year, a certificate requiring a minimum of 39 credits, and an AAS degree requiring a minimum of 62 credits.
- All of our electrical programs are designed to be completed on either a full time or a part time basis, with most courses available in the evenings as well as during the day.

Program Features:

- The electrical technology AAS degree offers students an advanced technical credential for those interested in starting an electrical career in the construction trades or pursuing electrical technician positions in the advanced manufacturing sector.
- All students completing this program will gain a broad understanding of fundamental electrical principles, residential and commercial wiring practices, and basic PLC / VFD programming/operation. In addition, students may tailor their second year technical courses to focus on their specific career goals, selecting from more advanced electrical courses including solar PV systems design, advanced industrial control systems, or specialized wiring courses.
- The program is rounded out by including general education courses that will prepare you to better communicate and build teamwork at your organization, vital skills that are required to advance into supervisory positions. Graduates from this program will have employment opportunities as electricians, electrical service technicians, and electrical maintenance personnel in both the construction and advanced manufacturing sectors.

Program Learning Outcomes:

- Demonstrate an ability to work and independently and collaboratively.
- Demonstrate competent speaking skills when working with diverse groups.
- Demonstrate skills in collecting, analyzing and applying technical information.
- Explain basic electrical theories, including Ohm's, Kirchhoff's, and Watt's laws.
- Properly use test equipment to troubleshoot electrical circuits.
- Interpret technical information in the form of schematics and electrical specifications.
- Describe the function and application of electrical equipment as used in residential, commercial and industrial environments.
- Construct, analyze, and troubleshoot common industrial circuits used in control and distribution.
- Properly interpret and apply the National Electric Code in common residential, commercial, and industrial applications.
- Demonstrate electrical safety practices when working with electrical control and distribution equipment.
- Apply mathematics to prepare electrical system documentation.

Transfer Information:

- While the program is not specifically intended for transfer, it will be considered on a case-by-case basis by Pennsylvania College of Technology.
- In addition, this program is eligible for the Bloomsburg partnership program for their "Bachelor of Applied Science in Technical Leadership" 4 year degree.

Career Information:

- Journeyman electrician (residential, commercial)
- Industrial electrician
- Electrical maintenance technician

Arts & Humanities (AH) Electives	Societies & Institutions over Time (SIT) Electives	Diversity (D) Electives	Technical Electives
ARTA 100 Art and Visual Thinking	CMTH 221 History of Broadcasting	BIOS 126 Environmental Science	HVAC101 Fundamentals of HVAC/R I
ARTA 101 Art History Survey	GEOG 101 World Geography	BIOS 210 Environmental Biology	ELTC222 Solar Photovoltaic Systems I
CMTH 110 Introduction to the Theatre	GEOG 151 Geography of the U.S. and Canada (G-WI)	BUSA 115 Intro to International Business	ELCT265 Electrical Cabling Systems I
CMTH 111 Acting I	GLBL 130 Intro to Global Studies	CJST 250 Contemporary Issues in Criminal Justice	EMEC125 Process and Automation Diagrams – P&ID
CMTH 115 Technical Theatre	GLBL 160 Field Experience & Acad Research in GS	CMTH 126 The Communication Arts	EMEC130 Introduction to Process Control
CMTH 117 Stagecraft	GLBL 230 Global Studies Capstone	CMTH 211 Plays: Classical to Contemporary	EMEC245 Industrial Control Systems II
CMTH 126 The Communication Arts	HIST 103 Ancient and Medieval History	CMTH 215 Intercultural Communication	
CMTH 189 Stage Voice and Movement	HIST 113 American History I (G-WI)	DANC 101 Dance History	
CMTH 190 Stage Production	HIST 121 The Black Experience (G-WI)	ENGL 151L English II (Literature)	
CMTH 206 Directing	HIST 123 African Civilization	ENGL 205 American Literature I	
CMTH 211 Plays: Classical to Contemporary (G-WI)	HIST 140 Modern Chinese History	ENGL 211 Plays: Classical to Contemporary	
CMTH 212 Acting II	HIST 153 Found of Mod Euro History, 1300-1815 (G-WI)	ENGL 215 Multicultural Adolescent Literature	
CMTH 218 Theatre Portfolio	HIST 163 American History II	ENGL 250 Latin American Literature	
CMTH 220 Introduction to Film	HIST 165 The American Experience of Warfare	ENGL 251 British Literature II	
DANC 101 Dance History	HIST 166 Civil War and Reconstruction (G-WI)	ENGL 253 Creative Writing	
DANC 110 Ballet I	HIST 168 History of the Middle East (G-WI)	ENGL 255 American Literature II	
DANC 120 Modern Dance I	HIST 173 Mod European History, 1815 to Present (G-WI)	ENGL 256 Modern Poetry	
DANC 130 Jazz I	HIST 210 History of Mod Science, 1859 to Present	ENGL 257 20th Century Lit by Women	
DANC 210 Ballet II	HIST 211 History of Pennsylvania	ENGL 260 Contemporary Literature	
DANC 220 Modern Dance II	INTS 202 The Architecture of the City: Classic to Contemporary	ENGL 264 Irish Literature	
DANC 230 Jazz II	POLS 101 Introduction to Political Science	ENGL 265 African-American Literature	
ENGL 201 British Literature I (G-WI)	POLS 105 American Constitutional Law (G-WI)	ENGL 267 Poetry Writing	
ENGL 203 Shakespeare (G-WI)	POLS 110 American National Government (G-WI)	GEOG 101 World Geography	
ENGL 205 American Literature I (G-WI)	POLS 150 Peace Studies & Conflict Resolution (Study Abroad)	GEOG 121 Environmental Sustainability	
ENGL 211 Plays: Classical to Contemporary (G-WI)	POLS 170 Politics of Modern Turkey (Study Abroad)	GEOG 151 Geography of the U.S. and Canada	
ENGL 215 Multicultural Adolescent Literature (G-WI)	POLS 202 International Relations	GEOG 210 Weather and Climate	
ENGL 250 Latin American Literature (G-WI)	POLS 205 Women and Politics (G-WI)	GLBL 130 Intro to Global Studies	
ENGL 251 British Literature II (G-WI)	POLS 251 State and Local Government (G-WI)	GLBL 160 Field Experience & Acad Research in GS	
ENGL 253 Creative Writing	SOCA 102 Cultural Anthropology (G-WI)	GLBL 230 Global Studies Capstone	
ENGL 255 American Literature II (G-WI)	SOCA 105 American Ethnicity	HIST 113 American History I	
ENGL 256 Modern Poetry (G-WI)	SOCA 160 Issues in Contemporary Genocide & Mass Violence	HIST 121 The Black Experience	
ENGL 257 20th Century Lit by Women (G-WI)		HIST 140 Modern Chinese History	
ENGL258 Fiction Writing		HIST 165 The American Experience of Warfare	
ENGL 260 Contemporary Literature (G-WI)		HIST 166 Civil War & Reconstruction	
ENGL 264 Irish Literature (G-WI)	Scientific Study of Human Behavior (SSHB) Electives	HIST 168 History of the Middle East	
ENGL 265 African-American Literature (G-WI)	ECON 201 Macroeconomics	HIST 173 Mod Euro History: 1815-Present	
ENGL 267 Poetry Writing	GEOG 121 Environmental Sustainability (G-WI)	HUMA 121 American Work Experience	
HUMA 121 The American Work Experience (G-WI)	GEOG 140 Investigating Climate Change	HUMA 140 Intro to Women and Gender Studies	
HUMA 140 Intro to Women and Gender Studies (G-WI)	GEOG 271 Intro to Geographic Info Systems	HUMA 150 Nature of the Environment	
HUMA210 Creativity and the Origin of Ideas	HUMA 250 Research Methods in Social Sciences (G-WI)	HUMA210 Creativity and The Origin of Ideas	
JOUR 101 Journalism and Society	INTS 250 Study Abroad	INTS 201 Implement Sustain Energy Sys in Dev Com	
Modern Language - All MDLA Courses	PSYC 103 Introduction to Psychology (G-WI)	Modern Language - All MDLA Courses	
MUSC 101 Introduction to Music	PSYC 230 Introduction to Health Psychology	PHIL111 On Death and Dying	
PHIL 111 On Death and Dying (G-WI)	PSYC 235 Dev Child Psychopathology	PHIL 121 World Religions	
PHIL 121 World Religions	PSYC 245 Cognitive Psychology	PHIL 204 Asian Philosophies	
PHIL 201 Introduction to Philosophy	PSYC 255 Abnormal Psychology	POLS 101 Introduction to Political Science	
PHIL 202 Ethics and Moral Problems (G-WI)	PSYC 258 Developmental Psychology (G-WI)	POLS 105G American Constitutional Law	
PHIL 204 Asian Philosophies	PSYC 265 Psychology of Sex and Gender	POLS 150 Peace Studies & Conflict Resolution (Study Abroad)	
PHIL 211 Ancient Philosophy	SOCA 103 Principles of Sociology (G-WI)	POLS 202 International Relations	
PHIL 215 Modern Philosophy	SOCA 125 Sociology of Families (G-WI)	POLS205 Women & Politics	
PHIL 225 What is Freedom?	SOCA 210 Sociology of Gender	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	
Electives: All courses except: OXX-level courses; EARL 221, EARL 222.			