



<b>DEGREE SHEET / 2017-2018 CATALOG</b>		
Student Name:		
Eagle ID:		
Eagle Email:		
Phone:		
<p><b>ASSOCIATE of APPLIED SCIENCE</b> in <b>ELECTRICAL TECHNOLOGY</b></p> <p>Northern's two-year AAS in ELECTRICAL TECHNOLOGY is a hands-on program providing in-depth journeyman preparation for five broad areas of the industry, including residential and commercial wiring, industrial electrical maintenance, solar photovoltaic (p.v.) design and troubleshooting techniques.</p> <p>From wiring a single-family home, to installing large switchgear, lighting, control, phone and data systems in large commercial buildings, to system analysis, design, installation and troubleshooting of industrial automated control systems, and variable frequency drives and solar electricity, our graduates are well prepared for wide range of career opportunities.</p>		
<b>GENERAL EDUCATION REQUIREMENTS (27 Credits)</b>	<b>SEMESTER</b>	<b>GRADE</b>
<b>AREA I: COMMUNICATIONS (9 Credits)</b>		
ENG 111 English Composition I (3) <i>Pre-requisite: ENG 109 or adequate score on the Course Placement Evaluation</i>		
ENG 116 Technical Writing (3) <i>Pre-requisite: ENG 111</i>		
SPCH 130 Public Speaking (3) <i>Pre-requisite: ENG 109 or adequate score on the Course Placement Evaluation</i>		
<b>AREA II: MATHEMATICS/COMPUTERS/LABORATORY SCIENCE (9 Credits)</b>		
ENGR 110L Introduction to Engineering (2) <i>Pre-requisite: None</i>		
ENGR 115 Basic Math for Engineering Applications (4) or <i>Pre-requisites: MATH 100</i> MATH 130 Intermediate Algebra (4) <i>Pre-requisites: MATH 100</i>		
Choose one of the following electives:		
BCIS 102 Computer Literacy (3) <i>Pre-requisite: None</i>		
EECE 105 Microcomputer Systems I (3) <i>Pre-requisite: None</i>		
EECE 132 Computer Networks I (3) <i>Pre-requisite: None</i>		
<b>AREA IV: SOCIAL/BEHAVIORAL SCIENCES (3 Credits)</b> <i>Students must complete a minimum of 15 credit hours spread between areas IV and V.</i>		

Elective (3) You must select courses from the approved list in the Catalog for GenEd		
<b>AREA V: HUMANITIES and FINE ARTS (3 Credits)</b> <i>Students must complete a minimum of 15 credit hours spread between areas IV and V.</i>		
Elective (3) You must select courses from the approved list in the Catalog for GenEd		
<b>AREA VI: FIRST YEAR EXPERIENCE (3 Credits)</b>		
FYE 101 First Year Experience (3) <i>Pre-requisite: None</i>		
<b>PROGRAM REQUIREMENTS (33 Credits)</b>		
ELEC 110 Introduction to Solar Electricity (1) <i>Pre-requisite: None</i>		
ELEC 110L Introduction to Solar Electricity Lab (2) <i>Pre-requisite: None</i>		
ELEC 140 Electrical Theory I (3) <i>Pre-requisite: None</i>		
ELEC 141 Electrical Code I (3) <i>Pre-requisite: None</i>		
ELEC 142L Residential Wiring Lab (3) <i>Pre-requisite: None</i>		
ELEC 150 Electrical Theory II (3) <i>Pre-requisite: ELEC 140 Electrical Theory I</i>		
ELEC 151 Electrical Code II (3) <i>Pre-requisite: ELEC 141 Electrical Code I</i>		
ELEC 152L Commercial Wiring Lab (3) <i>Pre-requisite: None</i>		
ELEC 160 Motor Controls (3) <i>Co-requisite: ELEC 160L</i> <i>Pre-requisite: ELEC 152L Commercial Wiring Lab</i>		
ELEC 160L Motor Controls Lab (3) <i>Co-requisite: ELEC 160</i> <i>Pre-requisite: ELEC 152L Commercial Wiring Lab</i>		
Electives from EET/MET/EECE/IT (6 credits)		
<b>TOTAL CREDITS 60</b>		
<b>ADVISOR APPROVAL</b>	<b>DATE</b>	

## SUGGESTED SEQUENCE OF COURSES

### **FIRST SEMESTER (15 Credits)**

FYE 101 First Year Experience (3)  
ELEC 110 Introduction to Solar Energy (1)  
ELEC 110L Introduction to Solar Energy Lab (2)  
ENG 111 English Composition I (3)  
ELEC 140 Electrical Theory I (3)  
ELEC 141 Electrical Code I (3)

### **SECOND SEMESTER (16 Credits)**

ENGR 115 Basic Math for Engineering Apps (4) or MATH 130 Intermediate Algebra (4)  
ELEC 142L Residential Wiring Lab (3)  
ELEC 150 Electrical Theory II (3)  
ELEC 151 Electrical Code II (3)  
HFA Elective (3)

### **THIRD SEMESTER (15 Credits)**

SPCH 130 Public Speaking (3)  
Elective EECE 105 Micro. Sys. (3), EECE 132 Comp. Net. I, or BCIS 102 Comp. Literacy (3)  
ELEC 152L Commercial Wiring Lab (3)  
ELECTIVE EET/MET/EECE/IT (3)  
SBS Elective (3)

### **FOURTH SEMESTER (14 Credits)**

ENGR 110L Introduction to Engineering (2)  
ENG 116 Technical Writing (3)  
ELEC 160 Motor Controls (3)  
ELEC 160L Motor Controls Lab (3)  
ELECTIVE EET/MET/EECE/IT (3)

# EDUCATIONAL PLANNING FORM (Semester)

FALL SEMESTER	SPRING SEMESTER	SUMMER
Total Units	Total Units	Total Units
FALL SEMESTER	SPRING SEMESTER	SUMMER
Total Units	Total Units	Total Units
FALL SEMESTER	SPRING SEMESTER	SUMMER
Total Units	Total Units	Total Units
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Total Units	Total Units	Total Units