



## General Technology - Mechatronics Associate in Applied Science

### Recommended Course Sequence

Students must complete at least 12 credit hours in a secondary specialty path. Your degree path may require more than 12 credit hours to complete the associate degree. Your academic advisor must approve all secondary studies.

#### First Semester - Fall

MAT 170	Algebra, Geometry and Trigonometry I	Credit: 3
EEM 107	Industrial Computer Techniques	Credit: 2
AMT 105	Robotics and Automated Control I	Credit: 3
REQ GEN ED	Choose one of the four remaining Gen Ed requirements	<u>Credit: 3</u>
		Total: 11

#### Second Semester - Spring

EGR 104	Engineering Technology Foundations	Credit: 3
EET 113	Electrical Circuits I	Credit: 4
AMT 205	Robotics and Automated Control II	Credit: 3
IMT 131	Hydraulics and Pneumatics	<u>Credit: 4</u>
		Total: 14

#### Third Semester - Summer

REQ GEN ED	Choose one of the three remaining Gen Ed requirements	Credit: 3
REQ GEN ED	Choose one of the two remaining Gen Ed requirements	<u>Credit: 3</u>
		Total: 6

#### Fourth Semester - Fall

EIT 110	Principles of Instrumentation	Credit: 3
EEM 251	Programmable Controllers	Credit: 3
IMT 161	Mechanical Power Applications	Credit: 4
EEM 221	DC AC Drives	<u>Credit: 3</u>
		Total: 13

#### Fifth Semester - Spring

EIT 244	Computers and PLCs in Instrumentation	Credit: 3
EEM 252	Programmable Controllers Applications	Credit: 3
EEM 151	Motor Controls I	<u>Credit: 4</u>
		Total: 10

#### Sixth Semester - Summer

REQ GEN ED	Choose one of the final remaining Gen Ed requirements	Credit: 3
IMT 163	Problem Solving for Mechanical Applications	<u>Credit: 3</u>
		Total: 6

**TOTAL SEMESTER HOURS**

**63**



## **General Technology – Electrician Industrial and Construction Associate in Applied Science Recommended Course Sequence**

Students must complete at least 12 credit hours in a secondary specialty path. Your degree path may require more than 12 credit hours to complete the associate degree. Your academic advisor must approve all secondary studies.

### **First Semester – Fall**

#### **Fall Full**

EEM 105	Basic Electricity	Credit: 2
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#### **Fall 1**

EEM 173	Electrical Installations I	Credit: 2
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MAT 170	Algebra, Geometry and Trigonometry	Credit: 3
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REQ GEN	Select from General Education (IDS 109 Recommended)	Credit: 3
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#### **Fall 2**

EEM 174	Electrical Installations II	Credit: 2
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EEM 107	Industrial Computer Techniques	Credit: 2
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**or**

EGR 110	Introduction to Computer Environment	<u>Credit: 3</u>
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Total: 14-15

### **Second Semester - Spring**

#### **Spring 1**

EEM 113	DC Circuits I	Credit: 2
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EEM 167	Commercial-Industrial Wiring I	Credit: 2
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REQ COM	Select from Communications	Credit: 3
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#### **Spring 2**

EEM 114	DC Circuits II	Credit: 2
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EEM 168	Commercial-Industrial Wiring II	Credit: 2
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REQ SSC	Select from Behavioral/Social Sciences	<u>Credit: 3</u>
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Total: 14

### **Third Semester - Summer**

#### **Summer Full**

EEM 221	DC AC Drives	Credit: 3
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#### **Summer 1**

EEM 119	AC Circuits I	Credit: 2
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EEM 163	Residential Wiring I	Credit: 2
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#### **Summer 2**

EEM 120	AC Circuits II	Credit: 2
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EEM 164	Residential Wiring II	<u>Credit: 2</u>
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Total: 12

**Fourth Semester - Fall****Fall Full**

EEM 251	Programmable Controllers	Credit: 3
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**Fall 1**

EEM 129	Solid State Devices I	Credit: 2
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EEM 218	AC DC Machines with Electrical Codes I	Credit: 2
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**Fall 2**

EEM 130	Solid State Devices II	Credit: 2
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EEM 219	AC DC Machines with Electrical Codes II	Credit: 2
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REQ HUM	Select from Humanities	<u>Credit: 3</u>
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Total: 14

**Fifth Semester - Spring****Spring Full**

EEM 151	Motor Controls	Credit: 4
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**Spring 1**

EEM 138	National Electrical Code I	Credit: 2
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**Spring 2**

EEM 139	National Electrical Code II	<u>Credit: 2</u>
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Total: 8

**TOTAL SEMESTER HOURS**

**61-62**