

# Academic Catalog & Handbook Academic Year 2024-2025 - ADDENDUM



# Careers Begin Here



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Oconee Fall Line Technical College (OFTC) serves Bleckley, Dodge, Glascock, Hancock, Jefferson, Laurens, Telfair, Warren, Washington, Wheeler, and Wilkinson Counties of Georgia, and is a unit of the Technical College System of Georgia (TCSG) and an Equal Opportunity Institution.

# OCONEE FALL LINE TECHNICAL COLLEGE AY25 CATALOG ADDENDUM (2024-2025)

# September 10, 2024

Program Name: Basic Electronic Assembler Technical Certificate of Credit (pgs. 199-200)

# **OVERVIEW**

The Basic Electronic Assembler certificate program provides instruction to prepare students for employment in a variety of positions within the industrial production equipment maintenance field. The program provides learning opportunities that introduce, develop and reinforce academic and technical knowledge, skills, and attitudes required for job acquisition, retention, and advancement. Additionally, the program provides opportunities to retrain or upgrade present knowledge and skills.

Students are accepted into the Basic Electronic Assembler certificate program every semester. A full-time student can complete this program in 1 semester. To graduate, students must earn a minimum of 10 semester credit hours. To graduate, students must earn a minimum of 9 semester credit hours.

# CURRICULUM

#### **General Education Courses**

Choose one of th	ne following courses:	
MATH 1012		3
	Mathematics	
MATH 1111	College Algebra	3 <mark>3</mark>
MATH 1013	Algebraic Concepts	<mark>3</mark>
Occupational (	Courses	
ELCR 1005	Soldering Technology	- 1
ELCR 1010	Direct Current Circuits	4 6 3
ELCR 1007	Introduction to	<mark>3</mark>
	Electronics Assembler	
Choose one of		_
ELCR 1110	Direct Current Circuits	3 3
IDSY 1101	DC Circuit Analysis	<mark>3</mark>
<b>PROGRAM P</b>	ATHWAY	
Semester 1		
ELCR 1005	Soldering Technology	4
ELCR 1010	Direct Current Circuits	1 6 3
<b>ELCR 1007</b>	Introduction to Electronics	3
	Assembler	
	the following:	_
ELCR 1110	Direct Current Circuits	3
		<mark>3</mark> 3
ELCR 1110 IDSY 1101	Direct Current Circuits DC Circuit Analysis	3 3
ELCR 1110 IDSY 1101 Choose one of	Direct Current Circuits DC Circuit Analysis the following:	
ELCR 1110 IDSY 1101	Direct Current Circuits DC Circuit Analysis the following: Foundations of	<mark>3</mark> 3 3
ELCR 1110 IDSY 1101 Choose one of MATH 1012	Direct Current Circuits DC Circuit Analysis the following: Foundations of Mathematics	3
ELCR 1110 IDSY 1101 Choose one of	Direct Current Circuits DC Circuit Analysis the following: Foundations of	

# September 10, 2024 Program Name: Basic Electricity Technician Technical Certificate of Credit (pgs. 197-198)

# OVERVIEW

The Basic Electrical Technician Technical Certificate of Credit provides a basic knowledge of direct current and alternating current circuits and their components. The program provides learning opportunities that introduce, develop and reinforce academic and technical knowledge, skills, and attitudes required for job acquisition, retention, and advancement. Additionally, the program provides opportunities to retrain or upgrade present knowledge and skills.

Students are accepted into the Basic Electricity Technician certificate program every semester. A full-time student can complete this program in 1 semester. To graduate, students must earn a minimum of 13 semester credit hours. To graduate, students must earn a minimum of 10 semester credit hours.

6 7

4

3 3

<mark>3</mark>

3

<del>6</del> 7

4

3 3

3

<mark>3</mark>

# CURRICULUM

#### **Occupational Courses**

oouputional o	
ELCR 1010	Direct Current Circuits
ELCR 1020	Alternating Current
	Circuits
ELCR 1125	Advanced DC and AC
	Circuits
Choose one of t	he following:
ELCR 1110	Direct Current Circuits
IDSY 1101	DC Circuit Analysis
Choose one of t	
ELCR 1120	Alternating Current
	Circuits
IDSY 1105	AC Circuit Analysis

# **PROGRAM PATHWAY**

Semester 1	
ELCR 1010	Direct Current Circuits
ELCR 1020	Alternating Current
	Circuits
ELCR 1125	Advanced DC and AC
	Circuits
Choose one of t	he following:
ELCR 1110	Direct Current Circuits
IDSY 1101	DC Circuit Analysis
Choose one of t	he following:
ELCR 1120	Alternating Current
	Circuits
IDSY 1105	AC Circuit Analysis

# September 10, 2024

**Program Name:** Electronics Technology Associate Degree of Applied Science (pgs. 189-190)

# **OVERVIEW**

The Electronics Technology Associate of Applied Science Degree program is a sequence of courses designed to prepare students for careers in electronics professions. Learning opportunities develop academic, technical, and professional knowledge and skills required for job acquisition, retention, and advancement. The program emphasizes a combination of electronics technology theory and practical application necessary for successful employment using both manual and computerized electronics systems. Program graduates receive an Electronics Technology Associate of Applied Science Degree, which qualifies them as electronics technicians with a specialization in communications electronics, or industrial electronics.

Students can enter the Electronics degree program any semester. A full-time student can complete this program in 5 semesters. To graduate, students must earn a minimum of 61 semester credit hours. To graduate, students must earn a minimum of 63 semester credit hours.

Occupational (	Courses
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Occupational C	ourses	
COLL 1060	Introduction to College	3
	and Computers	
ELCR 1005	Soldering Technology	-1
ELCR 1010	Direct Current Circuits	4 6 7
ELCR 1020	Alternating Current	7
	Circuits	
ELCR 1030	Solid State Devices	5 5
ELCR 1040	Digital and	5
	Microprocessor	
	Fundamentals	
ELCR 1060	Linear Integrated Circuits	3
ELCR 1007	Introduction to Electronics	3 3
	Assembler	
ELCR 1125	Advanced DC and AC	<mark>4</mark>
	Circuits	
ELCR 1130	Solid State Devices I	<mark>4</mark>
ELCR 1135	Solid State Devices II	<mark>4</mark>
ELCR 1140	Digital Fundamentals	4 4 4 4
ELCR 1150	Basic Microprocessors	<mark>4</mark>
	and Embedded Systems	
Choose one of the	ne following DC courses:	
ELCR 1110	Direct Current Circuits	<mark>3</mark>
IDSY 1101	DC Circuit Analysis	3 3
Choose one of the choose one o	ne following AC courses:	
ELCR 1120	Alternating Current	<mark>3</mark>
	Circuits	
IDSY 1105	AC Circuit Analysis	<mark>3</mark>
Choose one of the choose one o	ne following:	
COLL 1060 I	ntroduction to College and	<mark>3</mark>
	Computers	
	echnical Elective	<mark>3</mark>

# Complete one of the following Specializations:

	lectronics Technology Specialization	
ELCR 2210		_
	Analog communications	5
ELCR 2220	Digital Communications	<del>5</del> ዓ ዓ
ELCR 2230	Antenna and	ð
	Transmission Lines	~
ELCR 2240	Microwave	3
	Communications and	
	Radar	
ELCR 2215	Analog Communications	4
ELCR 2225	Digital Communications	4 3 4
<b>ELCR 2235</b>	Antenna and	4
	Transmission Lines	-
<b>ELCR 2245</b>	Microwave	<mark>4</mark>
	Communications and	•
	Radar	
Chasse and of t		
Choose one of t		0
ELCR 2250	Optical Communications	<mark>3</mark>
	Techniques	_
ELCR 2595	Optical Fiber Systems	<mark>3</mark>
Induction Flactures	ion Tanka da su Cranialization	
	ics Technology Specialization	2
ELCR 2110	Process Control	ð
ELCR 2120	Motor Controls	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
ELCR 2130	Programmable Controllers	÷
ELCR 2140	Mechanical Devices	2
ELCR 2150	Fluid Power	2
ELCR 2160	Advanced Microprocessor	3
	and Robotics	
ELCR 2165	Robotics and Embedded	4
	Systems	
Choose one of t		
ELCR 2115	Process Control	<mark>4</mark>
<b>IDSY 1230</b>	Industrial Instrumentation	4
Choose one of t		
ELCR 2125	Motor Controls	٨
IDSY 1110	Industrial Motor Controls I	4 4
		4
Choose one of t ELC 2135	ne jollowing:	4
ELC 2135		4
IDSY 1120	Basic Industrial PLCs	<mark>4</mark>
Choose one of t		_
ELCR 2155	Fluid Power	<mark>4</mark>
IDSY 1190	Fluid Power Systems	<mark>4</mark>

# September 10, 2024 Program Name: Electronics Technology Diploma (pgs. 195-196)

# OVERVIEW

The Electronics Technology Diploma program is a sequence of courses designed to prepare students for careers in electronics technology professions. Learning opportunities develop academic, technical, and professional knowledge and skills required for job acquisition, retention, and advancement. Program graduates are to be competent in the general areas of communications, mathematics, computer literacy, and interpersonal relations. The program emphasizes a combination of electronics technology theory and practical application necessary for successful employment using both manual and computerized electronics systems. Program graduates receive an Electronics Technology Diploma which qualifies them as electronics technicians with a specialization in biomedical instrumentation, communications electronics, or industrial electronics.

Students are accepted in the Electronics Technology diploma program any semester. A full-time student can complete this program in 4 semesters. To graduate, students must earn a minimum of 54 semester credit hours. To graduate, students must earn a minimum of 56 semester credit hours.

#### **General Education Courses**

		•
EMPL 1000	Interpersonal Relations &	2
	Prof Development	
ENGL 1010	Fundamentals of English I	3
Choose one of the		~
MATH 1012		3
	Mathematics	•
MATH 1111	College Algebra	3 <mark>3</mark>
<mark>MATH 1013</mark>	Algebraic Concepts	3
Occupational	Courses	
ELCR 1005	Soldering Technology	4
ELCR 1010	Direct Current Circuits	
		6 7 5 5
ELCR 1020	Alternating Current Circuits	+
ELCR 1030	Solid State Devices	÷
ELCR 1040	Digital and Microprocessor	<del>5</del>
	Fundamentals	
ELCR 1060	Linear Integrated Circuits	3 <mark>3</mark>
ELCR 1007	Introduction to Electronics	<mark>3</mark>
	Assembly	
ELCR 1125	Advanced DC and AC	<mark>4</mark>
	Circuits	
ELCR 1130	Solid State Devices I	4
ELCR 1135	Solid State Devices II	4
<b>ELCR 1140</b>	Digital Fundamentals	4
<b>ELCR 1150</b>	Basic Microprocessors and	4 4 4 4
	Embedded Systems	•
Choose one of	f the following:	
ELCR 1110	Direct Current Circuits	3
<b>IDSY 1101</b>	DC Circuit Analysis	3 3
Choose one of		<b>0</b>
ELCR 1120	Alternating Current Circuits	<mark>2</mark>
IDSY 1105	AC Circuit Analysis	3 3
	AC CIRCUIL Analysis	3

	Introduction to College and Computers	3
Complete one of	of the following Specializations	:
	lectronics Technology Specialization	
ELCR 2210	Analog communications	<del>5</del>
ELCR 2220	Digital Communications	3 3
ELCR 2230	Antenna and	3
	Transmission Lines	
ELCR 2240	Microwave	3
	Communications and	
	Radar	-
ELCR 2215	Analog Communications	4 3 4
ELCR 2225	Digital Communications	3
ELCR 2235	Antenna and	<mark>4</mark>
	Transmission Lines	4
ELCR 2245	Microwave Communications and	<mark>4</mark>
	Radar	
Choose one of		
ELCR 2250	Optical Communications	3
	Techniques	0
<b>ELCR 2595</b>	Optical Fiber Systems	3
Industrial Electror	nics Technology Specialization	•
ELCR 2110	Process Control	3 3 2 2 3
ELCR 2120	Motor Controls	3
ELCR 2130	Programmable Controllers	3
ELCR 2140	Mechanical Devices	2
ELCR 2150	Fluid Power	2
ELCR 2160	Advanced Microprocessor	÷
<b>ELCR 2165</b>	and Robotics Robotics and Embedded	<mark>4</mark>
ELOR 2100		<mark>4</mark>
Choose one of	Systems the following:	
ELCR 2115	Process Control	<mark>4</mark>
IDSY 1230	Industrial Instrumentation	4
Choose one of		•
ELCR 2125	Motor Controls	<mark>4</mark>
<b>IDSY 1110</b>	Industrial Motor Controls I	4
Choose one of		
ELC 2135	Programmable Controllers	<mark>4</mark>
IDSY 1120	Basic Industrial PLCs	<mark>4</mark>
Choose one of t		_
ELCR 2155	Fluid Power	4
IDSY 1190	Fluid Power Systems	<mark>4</mark>

# September 10, 2024 Program Name: Electronics Fundamentals Diploma (pgs. 193-194)

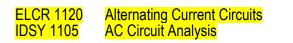
# **OVERVIEW**

The Electronics Fundamentals diploma program is designed to prepare students for careers in electronics professions. Learning opportunities develop academic, technical, and professional knowledge and skills required for job acquisition, retention, and advancement. The program emphasizes a combination of electronics theory and practical application necessary for successful employment. Program graduates receive an Electronics Fundamentals diploma which prepares them for entry-level positions in the electronics field and qualifies them for admission to the Electronics Fundamentals program.

Students are accepted into the Electronics Fundamentals program every semester. A full-time student can complete this program in 3 semesters. To graduate, students must earn a minimum of 38 semester credit hours. To graduate, students must earn a minimum of 40 semester credit hours.

# CURRICULUM

General Edu	cation Courses	
EMPL 1000	Interpersonal Relations & Prof Development	2
ENGL 1010	Fundamentals of English I	3
Choose one o	of the following:	
MATH 1012		3
MATH 1111	College Algebra	3
<mark>MATH 1013</mark>	Algebraic Concepts	3 <mark>3</mark>
Occupationa	I Courses	
COLL 1060	Introduction to College	3
	and Computers	
ELCR 1005	Soldering Technology	1
ELCR 1010	Direct Current Circuits	<del>6</del> 7
ELCR 1020	Alternating Current Circuits	4
ELCR 1030	Solid State Devices	5
ELCR 1040	Digital and	5
22011 1010	Microprocessor	Ū
	Fundamentals	
ELCR 1060	Linear Integrated Circuits	3
ELCR 1007	Introduction to Electronics	<del>3</del> 3
	Assembly	Ũ
ELCR 1125	Advanced DC and AC	4
	Circuits	
ELCR 1130	Solid State Devices I	4
ELCR 1135	Solid State Devices II	4
ELCR 1140	Digital Fundamentals	4
ELCR 1150	Basic Microprocessors	4
	and Embedded Systems	
COLL 1060	Introduction to College and	3
0	Computers	
	of the following:	~
ELCR 1110	Direct Current Circuits	3 3
IDSY 1101	DC Circuit Analysis	<mark>3</mark>
Choose one	of the following:	



<mark>3</mark> 3

# September 10, 2024 Program Name: Mechatronics Specialist Technical Certificate of Credit (pgs. 256-257)

# OVERVIEW

The Mechatronics Specialist certificate program is designed for the student who wishes to prepare for a career as a Mechatronics Technician The program provides learning opportunities that introduce, develop and reinforce academic and technical knowledge, skills and attitudes required for job acquisition, retention and advancement. This program provides students with the necessary skills and understanding to perform installation, diagnostics and repair to mechatronic systems and automated equipment. The program focuses on Mechanics, Fluid Power and Robotics.

Students are accepted into the Mechatronics Specialist certificate program every semester. A full-time student can complete this program in 1 semester.

To graduate, students must earn a minimum of 11 semester credit hours. To graduate, students must earn a minimum of 13 semester credit hours.

# CURRICULUM

### **Occupational Courses**

AUMF 1150	Introduction to Robotics	3
ELCR 2140	Mechanical Devices	2
ELCR 2150	Fluid Power	2
IDSY 1160	Mechanical Laws and	4
	Principles	
Choose one of	the following:	
ELCR 2155	Fluid Power	<mark>4</mark>
IDSY 1190	Fluid Power Systems	<mark>4</mark>

# **PROGRAM PATHWAY**

Semester 1		
AUMF 1150	Introduction to Robotics	3
ELCR 2140	Mechanical Devices	2
ELCR 2150	Fluid Power	2
IDSY 1160	Mechanical Laws and	4
	Principles	
Choose one of	the following:	
ELCR 2155	Fluid Power	<mark>4</mark>
IDSY 1190	Fluid Power Systems	<mark>4</mark>