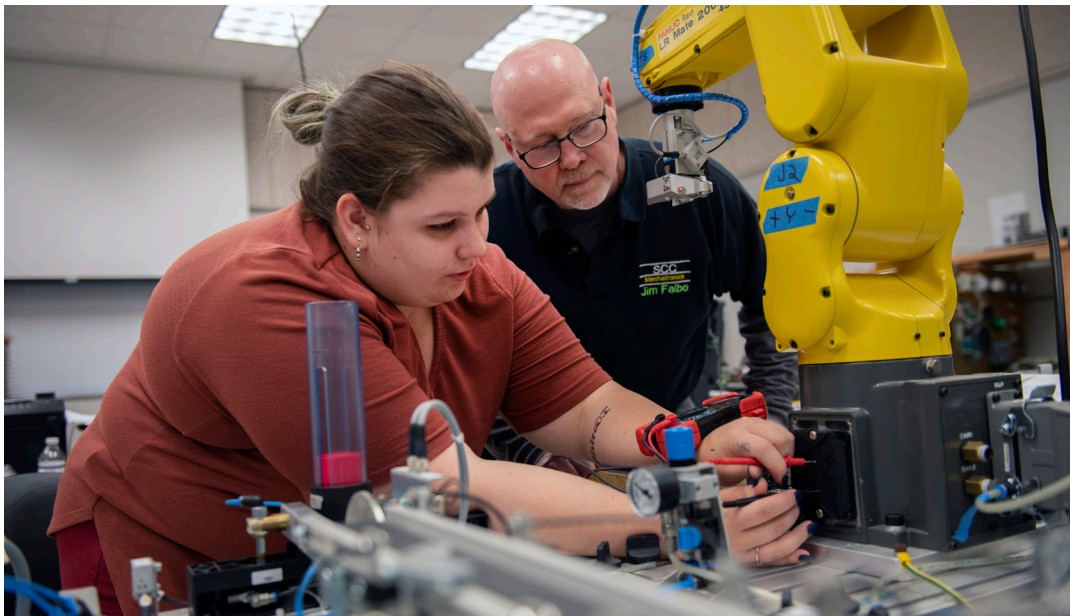


Mechatronics Engineering Technology - Career Technologies



FOLLOW US



ABOUT THIS FIELD

The Mechatronics Engineering Technology curriculum prepares students to be Control Technicians, Electrical Technicians, Green Energy Technicians, and Engineering Technicians with a variety of employers.



WHAT YOU'LL STUDY

Course work includes Robotics, Electrical Testing, Programmable Logic Controllers, Wiring, Troubleshooting, Maintenance Documentation, Three Phase Power and Control.



WHAT YOU CAN DO

Some examples of where Mechatronics graduates have been hired are Tesla Motors, Duke Energy, Borg Warner, Jackson Paper, ConMet, Volkswagen, Harrahs Casino, N.C. DOT, Evergreen Packaging, Eaton Electric, Thermofisher Scientific, and Franklin Tubular. **Students will have the opportunity to earn four stacked Certifications from SCC as well as an Industry Recognized NC3 Certification in addition to their Two Year Degree.**

Indeed.com Search "PLC Technician" to see up to date hiring information and salary expectations.

Mechatronics Engineering Technology

Career Technologies

CLASSES YOU'LL NEED TO TAKE

ASSOCIATE IN APPLIED SCIENCE (AAS) - A40350

Total Semester Hour Credits: 66

FALL SEMESTER 1

Prefix	Number	Title	Class	Lab	Clinical	Credit
ACA	111	College Student Success	1	0	0	1
ATR	112	Intro to Automation	2	3	0	3
COM	120	Interpersonal Communication	3	0	0	3
EGR	111	Engineer Comp and Careers	2	2	0	3
ELC	131	Circuit Analysis I	3	3	0	4
ISC	112	Industrial Safety	2	0	0	2
		Totals	13	8	0	16

SPRING SEMESTER 1

CIS	110	Intro to Computers	2	2	0	3
ELC	128	Intro to PLC	2	3	0	3
ENG	111	Writing and Inquiry	3	0	0	3
MEC	130	Mechanisms	2	2	0	3
PSY	150	General Psychology	3	0	0	3
		Totals	12	7	0	15

SUMMER SEMESTER

HUM	110	Technology & Society	3	0	0	3
MAT	171	Precalculus Algebra	3	2	0	4
		Totals	6	2	0	7

FALL SEMESTER 2

ELC	132	Electrical Drawings	1	3	0	2
ELC	213	Instrumentation	3	2	0	4
HYD	110	Hydraulics/Pneumatics	2	3	0	3
PHY	151	College Physics	3	2	0	4
Choose one of the following:						
EGR	285	Design Project	0	4	0	2
WBL	111	Work-Based Learning I*	0	10	10	1
		Totals	9	10-14	0-10	14-15

SPRING SEMESTER 2

ATR	211	Robot Programming	2	3	0	3
ATR	219	Automation Troubleshooting	1	3	0	2
ELC	117	Motors & Controls	2	6	0	4
ELC	228	PLC Application	2	6	0	4
WBL	121	Work-Based Learning II	0	0	10	1
		Totals	7	18	0-10	13-14

*If you choose WBL 111 in Fall Semester 2, you must take WBL 121 in Spring Semester 2.

CERTIFICATE OPTIONS

BASIC CERTIFICATE - C40350

Total Semester Hour Credits: 16

Prefix	#	Title	Class	Lab	Clinical	Credit
ACA	111	College Student Success	1	0	0	1
ATR	112	Intro to Automation	2	3	0	3
ELC	128	Intro to PLC	2	3	0	3
ELC	131	Circuit Analysis I	3	3	0	4
ISC	112	Industrial Safety	2	0	0	2
MEC	130	Mechanisms	2	2	0	3
		Totals	12	11	0	16

BASIC CERTIFICATE - CCP - C40350CP*

Total Semester Hour Credits: 15

Prefix	#	Title	Class	Lab	Clinical	Credit
ATR	112	Intro to Automation	2	3	0	3
ELC	128	Intro to PLC	2	3	0	3
ELC	131	Circuit Analysis I	3	3	0	4
ISC	112	Industrial Safety	2	0	0	2
MEC	130	Mechanisms	2	2	0	3
		Totals	11	11	0	15

* This certificate or pathway is offered to high school students through the Career & College Promise initiative. Please refer to the Career & College Promise page in the SCC Catalog for additional information.

INTERMEDIATE CERTIFICATE - C40350I

Total Semester Hour Credits: 13-14

Prefix	#	Title	Class	Lab	Clinical	Credit
CIS	110	Intro to Computers	2	2	0	3
ELC	132	Electrical Drawings	1	3	0	2
ELC	213	Instrumentation	3	2	0	4
HYD	110	Hydraulics/Pneumatics	2	3	0	3
Choose one of the following:						
EGR	285	Design Project	0	4	0	2
WBL	111	Work-Based Learning I	0	0	10	1
		Totals	8	10-14	0-10	13-14

ADVANCED CERTIFICATE - C40350A

Total Semester Hour Credits: 14-15

Prefix	#	Title	Class	Lab	Clinical	Credit
ATR	211	Robot Programming	2	3	0	3
ATR	219	Automation Troubleshooting	1	3	0	2
ELC	117	Motors & Controls	2	6	0	4
ELC	228	PLC Application	2	6	0	4
Choose one of the following:						
EGR	285	Design Project	0	4	0	2
WBL	111	Work-Based Learning I	0	0	10	1
WBL	121	Work-Based Learning II	0	0	10	1
		Totals	7	18-22	0-10	14-15

GENERAL EDUCATION CERTIFICATE - C40350G

Total Semester Hour Credits: 16

Prefix	#	Title	Class	Lab	Clinical	Credit
COM	120	Intro to Interpersonal Comm.	3	0	0	3
ENG	111	Writing and Inquiry	3	0	0	3
HUM	110	Technology & Society	3	0	0	3
MAT	171	Precalculus Algebra	3	2	0	4
PSY	150	General Psychology	3	0	0	3
		Totals	15	2	0	16