

This Associate in Science degree program prepares students for entry-level positions in a related field.

**ACADEMIC PLAN: Associate in Science Degree**

**2021-2022**

## Engineering Technology

**Code** 2187 **Program Length** 60 credits

For more information  
Contact:

Student Affairs  
Chipola College  
(850) 718-2266

### Entrance Requirements

This program prepares students to become engineering technicians. These technicians use the principles and theories of science, engineering and mathematics to solve technical problems in research and development, manufacturing, sales, construction, inspection and maintenance. Many engineering technicians work with engineers as part of an engineering team, translating the engineer's designs into actual products.

All Associate in Science degree students must complete the required English and mathematics courses with a grade of "C" or higher.

Students must complete the following **bold** Engineering Technology courses with a grade of "C" or higher.

### FRESHMAN YEAR

1st Semester		Sem. Hrs.	2nd Semester		Sem. Hrs.
ENC 1101 <sup>1</sup>	Communications Skills I	3	ENC 1102	Communication Skills II	3
ETD 1320	Intro to AutoCAD	3	ETI 1110 <sup>2</sup>	Introduction to Quality Assurance	3
EET 1084C <sup>2</sup>	Intro to Electronics w/ Lab	3	ETM 1010C <sup>2</sup>	Mechanical Measurements & Instru. w/ Lab	3
ETI 1420 <sup>2</sup>	Manufacturing Processes & Materials	3	MAC 1105 <sup>1</sup>	College Algebra	3
ETM 1401C	Mechanical Drive Systems	3	XXX XXXX <sup>4</sup>	SOCIAL SCIENCE CORE	3
SLS 1101	Orientation	1			
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>15</b>

### SOPHOMORE YEAR

1st Semester		Sem. Hrs.	2nd Semester		Sem. Hrs.
XXX XXXX <sup>5</sup>	TECHNICAL ELECTIVE	2-3	ETM 2315C <sup>3</sup>	Hydraulics and Pneumatics w/ Lab	3
ETS 2511C <sup>3</sup>	Motors and Controls w/ Lab	3	XXX XXXX <sup>5</sup>	TECHNICAL ELECTIVE	3
ETS 2542C <sup>3</sup>	Intro to Program. Logic Controllers w/ Lab	3	ETS 2535C <sup>3</sup>	Process Control & Automation w/ Lab	3
ETI 2622	Concepts of Lean Manuf. & Six Sigma	3	XXX XXXX <sup>4</sup>	HUMANITIES CORE	3
ETI 1701	Industrial Safety	3	XXX XXXX <sup>4</sup>	NATURAL SCIENCE CORE	3
<b>TOTAL</b>		<b>14-15</b>	<b>TOTAL</b>		<b>15</b>

<sup>1</sup> Non-credit developmental reading, writing, and/or math courses may also be required.

<sup>2</sup> Courses for which students may receive articulated credit if they hold the National MSSC-CPT Certification

<sup>3</sup> Courses required for Advanced Manufacturing in Pneumatics, Hydraulics, and Motors Certification.

<sup>4</sup> Students must complete the following general education courses: Social Science: AMH 2020, ECO 2013, POS 2041, PSY 2012, or SYG 1000. Humanities: MUL 2010, THE 1000, HUM 1020, or ARH 1000. Natural Science: AST 1002, BSC 1005, BSC 2010, BSC 2085, CHM 1045, ESC 1000, EVR 1001, PHY 1053C, PHY 2048C, PSC 1121.

<sup>5</sup> Technical electives: CET 2280C w/ Lab, ENC 2210, MAN 2345, MAC 1114, MAC 1140, ETM 2905 or approval of course.

Completion of the Technical Core courses included in the first year meet requirements for leading to MSSC-CPT Certification. Students who present current MSSC-CPT Certification or prior completion of the Technical Core can receive 15 credit hours toward this degree. Completion of the Specialization Core courses in the second year meet requirements leading to certification in Advanced Manufacturing: Pneumatics, Hydraulics, and Motors.

*While academic advisors, faculty and staff provide significant academic planning and related assistance to students, completion of all degree requirements, and the process of monitoring progress to that end, is ultimately the responsibility of the student.*

