

Associate of Science in Engineering Technology

Advanced Manufacturing Concentration (140C)

AS in ET DEGREE PROGRAMS provide students with a foundational understanding of core engineering principles and technical skills in their concentration areas. These programs typically emphasize **hands-on training**, preparing graduates for entry-level positions in fields such as electronics, industrial, or manufacturing engineering technology area. *Graduates not only earn associate degrees in engineering technology but are also well-positioned to pursue further education toward a bachelor's degree in engineering technology.*

ADVANCED MANUFACTURING CONCENTRATION HIGHLIGHTS:

- Designed to cultivate specialized proficiency in cutting-edge manufacturing processes and technologies.
- workforce-oriented and focuses on producing highly skilled all-rounded technicians poised to address the dynamic needs of the manufacturing industry.
- Uniquely integrates classroom learning with hands-on experience, as students attend classes for two days a week and work with sponsoring employers for three days a week, receiving a competitive wage.
- Specialized classes, seminars, and lectures by professionals in the field throughout the degree program.
- Industry partnerships with leading companies, such as: **Alliance Compressors, Boise Cascade, CLECO, International Paper (Red River and Mansfield sites), Natchitoches Regional Medical Center, Roy O Martin, and Weyerhaeuser.**



NORTHWESTERN STATE UNIVERSITY Associate of Science in Engineering Technology (Advanced Manufacturing Concentration-140C) Academic Calendar: 2024-2025

FIRST YEAR - FALL SEMESTER		
Course	Description	Credits
EET 1350	Electrical Circuits (AC/DC)	3
IET 1400	Technical Drafting I	3
IET 1800	Occupational Safety	3
MATH 1820	Technical Mathematics I (Algebra)	3
ENGL 1010	Composition and Rhetoric (on-line)	3
UNIV 1000	The University Experience	1
Total		16

FIRST YEAR - SPRING SEMESTER		
Course	Description	Credits
EET 1370	Basic Analog and Digital Electronics	3
IET 1520	Welding Technology	3
IET 2920	Special Problems (Problem Solving I) (5S and Lean Principles)	1
MATH 1830	Technical Mathematics II (Trigonometry)	3
ENGL 1020	Composition and Rhetoric (on-line)	3
COMM 1010	Oral Communication	3
Total		16

SUMMER SEMESTER - SESSION I & II		
Course	Description	Credits
IET 2700	Internship (3-0-18) Needs training through Career Resource Center as well	3
Total		3

SECOND YEAR - FALL SEMESTER		
Course	Description	Credits
EET 2330	Electric Motor Controls	3
EET 2331	Electric Motor Controls Lab	1
IET 2920	Special Problems (Problem Solving I) (Introduction to Engineering Problem Solving and Reliability)	1
IET 3150	Fluid Power	3
IET 2700	Internship (1 to 2 credit hours)	1
FA 1040	Fine Arts	3
SCI 1010	Basic Concepts of Physical Science I	3
Total		15

SECOND YEAR - SPRING SEMESTER		
Course	Description	Credits
EET 2210	Programmable Logic Controllers	3
EET 2211	Programmable Logic Controllers Lab	1
IET 2020	Metal Machining	3
IET 2920	Special Problems (Problem Solving I) (Presentation of solution to the Problem Solving Project)	1
IET 2700	Internship (1 to 2 credit hours)	2
PSYC 1010	General Psychology	3
SCI 1020	Basic Concepts of Biological Science I	3
Total		16

TOTAL CREDITS FOR THE DEGREE

66



Department of Engineering Technology

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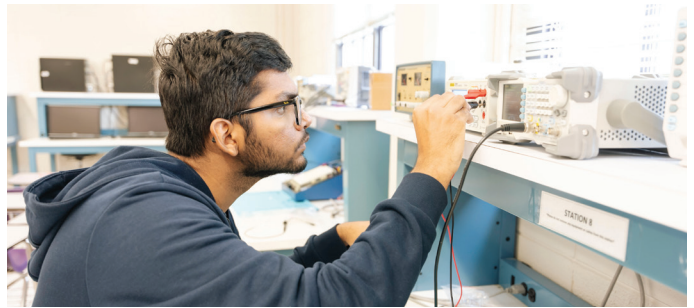
NORTHWESTERN STATE
UNIVERSITY OF LOUISIANA

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2-YEAR DEGREE

Associate of Science in Engineering Technology

Advanced Manufacturing Concentration (140C)



- **Workforce-oriented** and designed to cultivate **specialized proficiency** in cutting-edge manufacturing processes.
- Students attend class 2 days a week and **work with an industry partner** 3 days a week.
- Uniquely integrates classroom learning with **hands-on experience**.
- Students receive a **competitive wage** from our industry partners while taking classes!

EMPLOYMENT OPPORTUNITIES AVAILABLE IN THESE INDUSTRIES



International Paper



Weyerhaeuser



Boise Cascade



RoyOMartin

Natchitoches Regional Medical Center



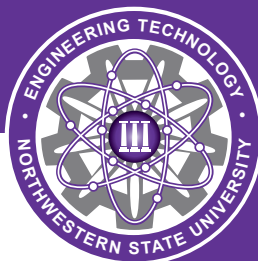
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ENGINEERING TECHNOLOGY



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