# Engineering Technology

## Degree Program

**ET33**

### Curriculum

**General Education Core – Total of 16 Hours**

**Area I – Language Arts/Communications – Choose 3 Hours**
- ENGL 1101 Composition & Rhetoric (3)

**Area II – Social/Behavioral Sciences – Choose 3 Hours**
- HIST 1111 World History I (3)
- HIST 1112 World History II (3)

**Area III – Natural Sciences/Mathematics – Choose 7 Hours**
- MATH 1113 Precalculus (3)
- MATH 1131 Calculus I (4)

**Area IV – Humanities/Fine Arts – Choose 3 Hours**
- MUSC 1101 Music Appreciation (3)

### Program-Specific Core – Total of 25 Hours

**ENGL 1105 Technical Communications (3)**
**ENGL 1102 Literature & Composition (3)**
**SPCH 1101 Public Speaking (3)**
**PHYS 1111(L) Introductory Physics + Lab (4)**
**PHYS 1112(L) Introductory Physics II + Lab (4)**
**DFTG 2010 Engineering Graphics (4)**
**CHEM 1211(L) Chemistry I + Lab (4)**

**Choose a Specialization – Total 22 – 25 Hours**

#### Electrical Engineering Specialization -

**- ENGT 1000 Intro to Engineering Tech (3)**
- ECET 1101 Circuit Analysis I (4)
- ECET 2101 Circuit Analysis II (4)
- ECET 1110 Digital Systems I (4)
- MATH 1132 Calculus II (4) - OR -
- ECET 2110 Digital Systems II (4)
- ECET 2120 Electronic Circuits I (4)

**Total: 64 Hours**

#### Industrial Engineering Specialization -

**Programming Course – Choose One Course**
- ENGT 1000 Intro to Engineering Tech (3)
- MATH 1132 Calculus II (4)
- DFTG 2020 Visualization & Graphics (3)
- ENGL 2130 American Literature (3)

**Mechanical Engineering Specialization -**

**Programming Course – Choose One Course**
- ENGT 1000 Intro to Engineering Tech (3)
- MEGT 1010 Manufacturing Processes (3)
- MEGT 1321 Machining & Welding (2)
- MEGT 2030 Statics (3)
- MEGT 2080 Strength of Materials (4)

**Total: 63 Hours**

**Occupational-Related Electives**
- IDSY 1020 Print Reading/Problem Solving (3)
- IDSY 1160 Mechanical Laws/Principles (4)
- IDSY 1240 Maintenance for Reliability (4)

#### Programming Course Options

- CIST 1305 Program Design & Development (3)
- CIST 2341 C# Programming I (4)
- CIST 2361 C++ Programming I (4)
- CIST 2371 Java Programming I (4)

#### Industrial Engineering Specialization -

**Programming Course – Choose One Course**
- ENGT 1000 Intro to Engineering Tech (3)
- MEGT 1010 Manufacturing Processes (3)
- MEGT 1321 Machining & Welding (2)
- MEGT 2030 Statics (3)
- MEGT 2080 Strength of Materials (4)

**Total: 65 Hours**

### Occupational-Related Electives

- IDSY 1020 Print Reading/Problem Solving (3)
- IDSY 1160 Mechanical Laws/Principles (4)
- IDSY 1240 Maintenance for Reliability (4)

### Mechanical Engineering Specialization -

**Programming Course – Choose Two Courses**
- MEGT 1010 Manufacturing Processes (3)
- MEGT 1321 Machining & Welding (2)
- MEGT 2030 Statics (3)
- MEGT 2080 Strength of Materials (4)

**Total: 63 Hours**

*If CIST 1305 is taken as programming course, student must take a minimum of 6 hours of MEGT.*

For more information about our graduation rates, the median debt of students who complete programs, and other important information please visit our website: [http://www.laniertech.edu/GE.aspx](http://www.laniertech.edu/GE.aspx)
Engineering Technology
Degree Program
ET33

Program Description
The Engineering Technology degree program is intended to provide the opportunity for students to explore a career in engineering at the professional level. Program graduates will receive an Associate of Applied Science degree in Engineering Technology, qualifying them as engineering technicians with a specialization in mechanical engineering technology, electrical engineering technology, or industrial engineering technology.

Program Specific Information
Students are accepted every semester based on course and space availability.

Program Length & Availability
4 Semesters
Campus Availability: Oakwood, Barrow

Admissions Requirements
• Must be 16 years of age.
• High school diploma or GED is required prior to admission. (Official transcripts or GED scores must be submitted from all colleges and/or high schools attended for credit.)
• ACCUPLACER Testing, or submit SAT, ACT, CPE, COMPASS, or ASSET test scores.

Financial Aid
This program is eligible for the Pell Grant and may be eligible for Institutional and State Financial Aid. Contact a Financial Aid Counselor for eligibility requirements and application materials.

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