

# Engineering Technology

## Degree Program

### ET33

[Click here to jump to Program Description, Admissions Requirements, and Financial Aid.](#)

## 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)

MEGT 1010 *Manufacturing Processes* (3)

MEGT 1321 *Machining & Welding* (2)

ACCT 1100 *Financial Accounting I* (4)

MATH 1127 *Introduction to Statistics* (3)

Occupational-Related Electives – Choose **6 Hours**

**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)

#### 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)

#### Mechanical 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 – 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>

# 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

#### 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.

[Click here to jump back to Curriculum](#)