

**ET33**

[Jump to Industrial Engineering Specialization](#)

[Jump to Mechanical Engineering Specialization](#)

Semester One		
ENGL 1101	Composition & Rhetoric <small>(Pre-Req: Test Scores – See Advisor)</small>	3
MATH 1111**	College Algebra** <small>(Pre-Req: Test Scores – See Advisor)</small>	3
DFTG 2010*^	Engineering Graphics*^	4
ENGT 1000	Intro to Engineering Tech	3
<b>Total Hours:</b>		<b>13</b>

Semester Two		
ENGL 1102	Literature & Composition <small>(Pre-Req: ENGL 1101)</small>	3
MATH 1113	Precalculus <small>(Pre-Req: MATH 1111 + Regular Admission*)</small>	3
CHEM 1211	Chemistry I <small>(Pre-Req: MATH 1101 or MATH 1111, Co-Req: CHEM 1211L)</small>	3
CHEM 1211L	Chemistry I Lab <small>(Co-Req: CHEM 1211)</small>	1
ECET 1101	Circuit Analysis I <small>(Co-Req: MATH 1111)</small>	4
<b>Total Hours:</b>		<b>14</b>

Semester Three		
SPCH 1101	Public Speaking <small>(Pre-Req: Regular Admission* for Engl/Read)</small>	3
ENGL 1105	Technical Communications <small>(Pre-Req: ENGL 1101)</small>	3
Choose One:	World History I <small>(Pre-Req: Regular Admission* for Engl/Read)</small> or World History II <small>(Pre-Req: Regular Admission* for Engl/Read)</small>	3
MUSC 1101	Music Appreciation <small>(Pre-Req: Regular Admission*)</small>	3
<b>Total Hours:</b>		<b>12</b>

Semester Four		
MATH 1131*^	Calculus I*^ <small>(Pre-Req: Regular Admission* + MATH 1112 or MATH 1113)</small>	4
PHYS 1111*^	Introductory Physics*^ <small>(Pre-Req: ENGL 1101 + MATH 1112 or MATH 1113, Co-Req: PHYS 1111L)</small>	3
PHYS 1111L*^	Introductory Physics Lab*^ <small>(Co-Req: PHYS 1111)</small>	1
ECET 2101	Circuit Analysis II <small>(Pre-Req: ECET 1101 + MATH 1111)</small>	4
<b>Total Hours:</b>		<b>12</b>

Semester Five		
MATH 1132^^	Math 1132 Calculus II <small>(Pre-Req: MATH 1131 +Regular Admission*)</small> or ECET 2110 Digital Systems II <small>(Pre-Req: ECET 1110)</small>	4
PHYS 1112^^	Introductory Physics II^^ <small>(Pre-Req: ENGL 1101 + MATH 1112 or MATH 1113, Co-Req: PHYS 1112L)</small>	3
PHYS 1112L^^	Introductory Physics II Lab^^ <small>(Co-Req: PHYS 1112)</small>	1
<b>Total Hours:</b>		<b>8</b>

Semester Six		
<a href="#">Click Here to Apply for Graduation</a>		
ECET 1110	Digital Systems I <small>(Pre-Req: ENGT 1000 + PHYS 1111+Lab + PHYS 1112+Lab)</small>	4
ECET 2120	Electronic Circuits I <small>(Pre-Req: ECET 1101 + PHYS 1111+Lab + PHYS 1112+Lab)</small>	4
<b>Total Hours:</b>		<b>8</b>

**Total Program Hours: 67** (including MATH 1111\*\*)



This plan is for informational purposes ONLY.  
It is not a substitute for meeting with a program advisor each term.

\*Regular Admission means that a student has met all admissions requirements and that the student does not require any learning support classes.

\*\*MATH 1111 is not in the Engineering Technology Degree Curriculum, but it or high enough test scores are required for MATH 1113

\*^These courses are only offered Fall Semester each year: DFTG 2010, MATH 1131, PHYS 1111, and PHYS 1111L

^^These courses are only offered Spring Semester each year: MATH 1132, PHYS 1112, and PHYS 1112L

Equal Opportunity Institution

Updated: 07/20/17  
Effective Term: 201614

**ET33**

[Jump to Electrical Engineering Specialization](#)

[Jump to Mechanical Engineering Specialization](#)

Semester One		
ENGL 1101	Composition & Rhetoric (Pre-Req: Test Scores – See Advisor)	3
MATH 1111**	College Algebra** (Pre-Req: Test Scores – See Advisor)	3
DFTG 2010*^	Engineering Graphics*^	4
ENGT 1000	Intro to Engineering Technology	3
<b>Total Hours:</b>		<b>13</b>

Semester Two		
ENGL 1102	Literature & Composition (Pre-Req: ENGL 1101)	3
MATH 1113	Precalculus (Pre-Req: MATH 1111 + Regular Admission*)	3
CHEM 1211	Chemistry I (Pre-Req: MATH 1101 or MATH 1111, Co-Req: CHEM 1211L)	3
CHEM 1211L	Chemistry I Lab (Co-Req: CHEM 1211)	1
SPCH 1101	Public Speaking (Pre-Req: Regular Admission* for Engl/Read)	3
<b>Total Hours:</b>		<b>13</b>

Semester Three		
ACCT 1100	Financial Accounting I (Pre-Req: Regular Admission*)	4
ENGL 1105	Technical Communications (Pre-Req: ENGL 1101)	3
Choose One:	World History I (Pre-Req: Regular Admission* for Engl/Read) or World History II (Pre-Req: Regular Admission* for Engl/Readd)	3
MUSC 1101	Music Appreciation (Pre-Req: Regular Admission*)	3
<b>Total Hours:</b>		<b>13</b>

Semester Four		
MATH 1131*^	Calculus I*^ (Pre-Req: Regular Admission* + MATH 1112 or MATH 1113)	4
PHYS 1111*^	Introductory Physics*^ (Pre-Req: ENGL 1101 + MATH 1112 or MATH 1113, Co-Req: PHYS 1111L)	3
PHYS 1111L*^	Introductory Physics Lab*^ (Co-Req: PHYS 1111)	1
<a href="#">Click for Option</a>	Programming Course	3
<b>Total Hours:</b>		<b>11</b>

Semester Five		
MEGT 1010	Manufacturing Processes (Pre-Req: Regular Admission*, Co-Req: ENGT 1000)	3
MEGT 1321	Machining & Welding (Co-Req: MEGT 1010)	2
PHYS 1112^^	Introductory Physics II^^ (Pre-Req: ENGL 1101 + MATH 1112 or MATH 1113, Co-Req: PHYS 1112L)	3
PHYS 1112L^^	Introductory Physics II Lab^^ (Co-Req: PHYS 1112)	1
<b>Total Hours:</b>		<b>9</b>

Semester Six		
<a href="#">Click Here to Apply for Graduation</a>		
MATH 1127	Introduction to Statistics (Pre-Req: Regular Admission*)	3
Choose Two:	IDSY 1020 Print Rdg/Prob. Solve (3) (Pre-Req: Regular Admission*) or IDSY 1160 Mech. Laws/Prin. (4) or IDSY 1240 Maint. for Reliability (4) (Pre-Req: IDSY 1170)	6
<b>Total Hours:</b>		<b>9</b>

**Total Program Hours: 68** (including MATH 1111\*\*)



This plan is for informational purposes ONLY.  
It is not a substitute for meeting with a program advisor each term.

\*Regular Admission means that a student has met all admissions requirements and that the student does not require any learning support classes.

\*\*MATH 1111 is not in the Engineering Technology Degree Curriculum, but it or high enough test scores are required for MATH 1113

\*^These courses are only offered Fall Semester each year: DFTG 2010, MATH 1131, PHYS 1111, and PHYS 1111L

^^These courses are only offered Spring Semester each year: PHYS 1112, and PHYS 1112L

**ET33**

[Jump to Industrial Engineering Specialization](#)

[Jump to Electrical Engineering Specialization](#)

Semester One		
ENGL 1101	Composition & Rhetoric (Pre-Req: Test Scores – See Advisor)	3
MATH 1111**	College Algebra** (Pre-Req: Test Scores – See Advisor)	3
DFTG 2010*^	Engineering Graphics*^	4
ENGT 1000	Intro to Engineering Tech	3
<b>Total Hours:</b>		<b>13</b>

Semester Two		
ENGL 1102	Literature & Composition (Pre-Req: ENGL 1101)	3
MATH 1113	Precalculus (Pre-Req: MATH 1111 + Regular Admission*)	3
CHEM 1211	Chemistry I (Pre-Req: MATH 1101 or MATH 1111, Co-Req: CHEM 1211L)	3
CHEM 1211L	Chemistry I Lab (Co-Req: CHEM 1211)	1
DFTG 2020	Visualization & Graphics	3
<b>Total Hours:</b>		<b>13</b>

Semester Three		
SPCH 1101	Public Speaking (Pre-Req: Regular Admission* for Engl/Read)	3
ENGL 1105	Technical Communications (Pre-Req: ENGL 1101)	3
Choose One:	World History I (Pre-Req: Regular Admission* for Engl/Read) or World History II (Pre-Req: Regular Admission* for Engl/Read)	3
MUSC 1101	Music Appreciation (Pre-Req: Regular Admission*)	3
<b>Total Hours:</b>		<b>12</b>

Semester Four		
MATH 1131*^	Calculus I*^ (Pre-Req: Regular Admission* + MATH 1112 or MATH 1113)	4
PHYS 1111*^	Introductory Physics*^ (Pre-Req: ENGL 1101 + MATH 1112 or MATH 1113, Co-Req: PHYS 1111L)	3
PHYS 1111L*^	Introductory Physics Lab*^ (Co-Req: PHYS 1111)	1
<a href="#">Click for Option</a>	Programming Course	3
<b>Total Hours:</b>		<b>11</b>

Semester Five		
MATH 1132^^	Calculus II^^ (Pre-Req: MATH 1131 +Regular Admission*)	4
PHYS 1112^^	Introductory Physics II^^ (Pre-Req: ENGL 1101 + MATH 1112 or MATH 1113, Co-Req: PHYS 1112L)	3
PHYS 1112L^^	Introductory Physics II Lab^^ (Co-Req: PHYS 1112)	1
<b>Total Hours:</b>		<b>8</b>

Semester Six		
<a href="#">Click Here to Apply for Graduation</a>		
ENGL 2130	American Literature (Pre-Req: ENGL 1101)	3
<a href="#">Click for Option</a>	Mechanical Engineering Courses	5-7
<b>Total Hours:</b>		<b>8-10</b>

**Total Program Hours: 66** (including MATH 1111\*\*)

\*Regular Admission means that a student has met the minimum requirements for enrollment and has completed any learning support classes. It is not a substitute for meeting with a program advisor.

\*\*MATH 1111 is not in the Engineering Technology specialization. High test scores are required for MATH 1113.

\*^These courses are only offered Fall Semester each year: DFTG 2010, MATH 1131, PHYS 1111, and PHYS 1111L

^^These courses are only offered Spring Semester each year: MATH 1132, PHYS 1112, and PHYS 1112L



# OPTIONS

## Programming Course (Industrial Engineering & Mechanical Engineering Specializations)

CIST 1305 *Program Design & Development (3)*

CIST 2341 *C# Programming I (4)*

(Pre-Req: CIST 1305)

CIST 2361 *C++ Programming I (4)*

(Pre-Req: CIST 1305)

CIST 2371 *Java Programming I (4)*

(Pre-Req: CIST 1305)

## Mechanical Engineering Courses

MEGT 1010 *Manufacturing Processes (3)*

(Co-Req: ENGT 1000 + Regular Admission\*)

MEGT 1321 *Machining & Welding (2)*

(Co-Req: ENGT 1000 + Regular Admission\*)

MEGT 2030 *Statics (3)*

(Pre-Req: ENGT 1000 + MATH 1113)

MEGT 2080 *Strength of Materials (4)*

(Pre-Req: MEGT 2030)

*NOTE: If CIST 1305 (3) is taken as programming course, student must take a minimum of 6 hours of MEGT.*

[Jump to Electrical Engineering Specialization](#)

[Jump to Industrial Engineering Specialization](#)

[Jump to Mechanical Engineering Specialization](#)

\*Regular Admission means that a student has met all admissions requirements and that the student does not require any learning support classes.

\*\*MATH 1111 is not in the Engineering Technology Degree Curriculum, but it or high enough test scores are required for MATH 1113

\*^These courses are only offered Fall Semester each year: DFTG 2010, MATH 1131, PHYS 1111, and PHYS 1111L

^^These courses are only offered Spring Semester each year: MATH 1132, PHYS 1112, and PHYS 1112L

Updated: 07/20/17  
Effective Term: 201614

Equal Opportunity Institution

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>.