### Sample Graduation Plan
#### Degree in Mechtronics Technology
#### MT23

#### Semester One
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1101</td>
<td>Composition &amp; Rhetoric</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>(Pre-Req: Test Scores – See Advisor)</td>
<td></td>
</tr>
<tr>
<td>IDSY 1101</td>
<td>DC Circuit Analysis</td>
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<tr>
<td>IDSY 1105</td>
<td>AC Circuit Analysis</td>
<td>3</td>
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<td><strong>Total Hours:</strong> 12</td>
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#### Semester Two
<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>IDSY 1110</td>
<td>Industrial Motor Controls</td>
<td>4</td>
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<tr>
<td>IDSY 1120</td>
<td>Basic Industrial PLCs</td>
<td>4</td>
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<tr>
<td>IDSY 1190</td>
<td>Fluid Power Systems</td>
<td>4</td>
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<td><strong>Total Hours:</strong> 12</td>
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#### Semester Three
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<thead>
<tr>
<th>Course</th>
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<th>Hours</th>
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<tbody>
<tr>
<td>Click for Option</td>
<td>Area IV: General Education Core</td>
<td>3</td>
</tr>
<tr>
<td>Click for Option</td>
<td>General Education Core Elective</td>
<td>3</td>
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<tr>
<td>AUMF 1150</td>
<td>Introduction to Robotics</td>
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<tr>
<td>IDSY 1210</td>
<td>Industrial Motor Controls II</td>
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<td>(Co-Req: IDSY 1110)</td>
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<td><strong>Total Hours:</strong> 13</td>
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#### Semester Four
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<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>IDFC 1013</td>
<td>Solid State Devices I</td>
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<td>(Pre-Req: (IDSY 1101+1105) or (IDFC 1000+1012))</td>
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<tr>
<td>IDSY 1220</td>
<td>Intermediate Industrial PLCs</td>
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<td>(Pre-Req: IDSY 1120)</td>
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<tr>
<td>Click for Option</td>
<td>Occupational-Related Elective</td>
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<td><strong>Total Hours:</strong> 10</td>
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#### Semester Five
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<tr>
<th>Course</th>
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<th>Hours</th>
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<tbody>
<tr>
<td>Click Here to Apply for Graduation</td>
<td>Area III: General Education Core</td>
<td>3</td>
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<tr>
<td>IDSY 1230</td>
<td>Industrial Instrumentation</td>
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<td>MCTX 2250</td>
<td>Mechatronics Capstone</td>
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<tr>
<td>Click for Option</td>
<td>Occupational-Related Elective</td>
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<td><strong>Total Hours:</strong> 13</td>
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#### Total Program Hours: 60

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*Be Wise, Get Advised*

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

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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](http://www.laniertech.edu/GE.aspx)

Updated: 02/20/18
Effective Term: 201816
Area II: Social/Behavioral Science

ECON 1101 Principles of Economics (3)  
(Preq: Regular Admission*)
ECON 2105 Macroeconomics (3)  
(Preq: Regular Admission*)
ECON 2106 Microeconomics (3)  
(Preq: Regular Admission*)
HIST 1111 World History I (3)  
(Preq: Regular Admission* for English/Reading)
HIST 1112 World History II (3)  
(Preq: Regular Admission* for English/Reading)
HIST 2111 U.S. History I (3)  
(Preq: Regular Admission* for English/Reading)
HIST 2112 U.S. History II (3)  
(Preq: Regular Admission* for English/Reading)
POLS 1101 American Government (3)  
(Preq: Regular Admission* for English/Reading)
POLS 2401 Global Issues (3)  
(Preq: Regular Admission* for English/Reading)
PSYC 1101 Introductory Psychology (3)  
(Preq: Regular Admission* for English/Reading)
SOCI 1101 Introduction to Sociology (3)  
(Preq: Regular Admission* for English/Reading)

Area III: Natural Sciences/Mathematics  
(Pre-Q: Test Scores – See Advisor)

MATH 1101 Mathematical Modeling (3)
MATH 1103 Quant. Skills/Reasoning (3)
MATH 1111 College Algebra (3)

Area IV: Humanities/Fine Arts

ARTS 1101 Art Appreciation (3)  
(Preq: Regular Admission* for English/Reading)
ENGL 2110 World Literature (3)  
(Preq: ENGL 1101)
ENGL 2130 American Literature (3)  
(Preq: ENGL 1101)
HUMN 1101 Intro to Humanities (3)  
(Preq: ENGL 1101)
MUSC 1101 Music Appreciation (3)  
(Preq: Regular Admission* for English/Reading)
RELG 1101 World Religions (3)  
(Preq: ENGL 1101)

General Education Core Elective

Any course from Areas II through IV OR

BIOL 1111(L) Biology I + Lab (4)  
(Preq: Regular Admission*)
BIOL 2113(L) Human A&P I + Lab (4)  
(Preq: Regular Admission*, Co-Q: ENGL 1101)
BIOL 2114(L) Human A&P II + Lab (4)  
(Preq: BIOL 2113 + Lab)
ENGL 1102 Literature & Comp. (3)  
(Preq: ENGL 1101)
MATH 1112 College Trigonometry (3)  
(Preq: MATH 1111 + Regular Admission*)
MATH 1113 Precalculus (3)  
(Preq: MATH 1111 + Regular Admission*)
MATH 1127 Intro to Statistics (3)  
(Preq: Regular Admission*)
MATH 1131 Calculus I (4)  
(Preq: MATH 1112 or 1113 + Regular Admission*)
PHYS 1110(L) Conc. Phys + Lab (4)  
(Preq: MATH 1101 or 1111 + ENGL 1101)
PSYC 2103 Human Develop. (3)  
(Preq: PSYC 1101)
SPAN 1101 Intro to Spanish (3)  
(Preq: Regular Admission*)
SPCH 1101 Public Speaking (3)  
(Preq: Regular Admission* for English/Reading)

Occupational-Related Electives

AIRC 1005 Refrigeration Fundamentals (4)
AUMF 2060 Work Cell Design Laboratory (2)
BUAS 1010 BAS Fundamentals (2)
IDSY 1130 Industrial Wiring (4)
IDSY 1170 Industrial Mechanics (4)
IDSY 1240 Maintenance for Reliability (4)  
(Preq: IDSY 1170)
WELD 1000 Intro to Welding Technology (4)
WELD 1010 Oxyfuel Cutting (4)  
(Co-Q: WELD 1000)
or Any other AIRC, AUMF, BUAS, ELCR, IDSY, MCHT, or WELD course approved by your advisor.

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

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