

**Departmental/Program Major Courses (120 credits)**  
**Required Major Courses (33 credits)**

**Company Chosen Focus Area Polytechnic Courses**

- \_\_\_\_\_ (3) Approved Focus Area Selective<sup>1</sup>
- \_\_\_\_\_ (3) Approved Focus Area Selective<sup>1</sup>
- \_\_\_\_\_ (3) Approved Focus Area Selective<sup>1</sup>
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- \_\_\_\_\_ (3) Approved Focus Area Selective<sup>1</sup>

**Other Departmental /Program Course Requirements (79 credits)**

- \_\_\_\_\_ (3) MA 15300 – Algebra & Trig I or MA 15555 – Quantitative Reasoning or MA 15800 Pre-calculus (*satisfies Quantitative Reasoning Selective for core*)
- \_\_\_\_\_ (3) Mathematics/Statistics Selective<sup>2</sup>
- \_\_\_\_\_ (3) Oral Communication Selective<sup>3</sup>(*satisfies Oral Communication for core*)
- \_\_\_\_\_ (3) English Composition Selective<sup>4</sup>(*satisfies Written Communication for core*)
- \_\_\_\_\_ (3) Advanced Communication Selective<sup>5</sup>
- \_\_\_\_\_ (4) Lab Science Foundation Selective<sup>6</sup> (*satisfies Science for core*)
- \_\_\_\_\_ (3) Science Foundation Selective<sup>7</sup> (*satisfies Science for core*)
- \_\_\_\_\_ (3) Behavioral/Social Sciences Selective<sup>8</sup> (*satisfies Human Cultures Behavioral/Social Science for core*)
- \_\_\_\_\_ (3) Humanities Foundation Selective<sup>9</sup> (*satisfies Human Cultures Humanities for core*)
- \_\_\_\_\_ (3) TECH 12000 Design Thinking in Technology (*satisfies Information Literacy and Science, Technology, Society for core*)
- \_\_\_\_\_ (3) Global/Professional Selective<sup>10</sup>
- \_\_\_\_\_ (45) Company determined Selectives<sup>11</sup>

**Free Electives<sup>12</sup> (8 credits)**

\_\_\_\_\_ (FE) \_\_\_\_\_

**University Core Requirements (<http://www.purdue.edu/provost/initiatives/curriculum/course.html>)**

Human Cultures Humanities	<input type="checkbox"/>	_____	Science, Technology & Society Selective	<input type="checkbox"/>	_____
Human Cultures Behavioral/Social Science	<input type="checkbox"/>	_____	Written Communication	<input type="checkbox"/>	_____
Information Literacy	<input type="checkbox"/>	_____	Oral Communication	<input type="checkbox"/>	_____
Science Selective	<input type="checkbox"/>	_____	Quantitative Reasoning	<input type="checkbox"/>	_____
Science Selective	<input type="checkbox"/>	_____			

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**The student is ultimately responsible for knowing and completing all degree requirements.**  
**myPurduePlan is knowledge source for specific requirements and completion**

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- **Purdue policy states that a student may attempt registration in a course no more than three times. An attempt is defined as all courses displayed on a student transcript having grades of (including, but not limited to) A, B, C, D, E, F, W, WF, I and IF.**
- **120 semester credits required for Bachelor of Science degree.**
- **2.0 Graduation GPA required for Bachelor of Science degree.**
- **NOTE: Students must take 32 credit hours of 30000 or 40000 level classes at Purdue University.**

Purdue Polytechnic Lafayette, BS degree in Multidisciplinary Technology  
Suggested Eight Semester Plan of Study

<b>Semester 1</b>	<b>Cr</b>	<b>Semester 2</b>	<b>Cr</b>
Oral Communication Selective <sup>3</sup>	3	Lab Science Foundation Selective <sup>6</sup>	4
MA 15300 Algebra & Trig 1 or MA 15555 Quantitative Reasoning or MA 15800 Pre-Calculus	3	Mathematics/Statistics Foundation Selective <sup>2</sup>	3
TECH 12000 Design Thinking in Technology	3	English Composition Selective <sup>4</sup>	3
Humanities Foundation Selective <sup>9</sup>	3	Company Chosen Focus Area <sup>1</sup>	3
Company Chosen Focus Area <sup>1</sup>	3	Company Chosen Focus Area <sup>1</sup>	3
TOTAL	15	TOTAL	16
<b>Semester 3</b>	<b>Cr</b>	<b>Semester 4</b>	<b>Cr</b>
Science Foundation Selective <sup>7</sup>	3	Company Chosen Focus Area <sup>1</sup>	3
Company Chosen Focus Area <sup>1</sup>	3	Company determined Selective <sup>11</sup>	3
Company determined Selective <sup>11</sup>	3	Behavioral/Social Sciences Selective <sup>8</sup>	3
Company determined Selective <sup>11</sup>	3	Company determined Selective <sup>11</sup>	3
Company determined Selective <sup>11</sup>	3	Company determined Selective <sup>11</sup>	3
TOTAL	15	TOTAL	15

<b>Semester 5</b>	<b>Cr</b>	<b>Semester 6</b>	<b>Cr</b>
Company determined Selective <sup>11</sup>	3	Global/Professional Selective <sup>10</sup>	3
Company chosen focus area Polytechnic course <sup>1</sup>	3	Advanced Communication Selective <sup>5</sup>	3
Company chosen focus area Polytechnic course <sup>1</sup>	3	Company chosen focus area Polytechnic course <sup>1</sup>	3
Company determined Selective <sup>11</sup>	3	Company chosen focus area Polytechnic course <sup>1</sup>	3
Company determined Selective <sup>11</sup>	3	Free Elective <sup>12</sup>	3
TOTAL	15	TOTAL	15
<b>Semester 7</b>	<b>Cr</b>	<b>Semester 8</b>	<b>Cr</b>
Company chosen focus area Polytechnic course <sup>1</sup>	3	Company chosen focus area Polytechnic course <sup>1</sup>	3
Company determined Selective <sup>11</sup>	3	Company chosen focus area Polytechnic course <sup>1</sup>	3
Company determined Selective <sup>11</sup>	3	Company determined Selective <sup>11</sup>	3
Company determined Selective <sup>11</sup>	3	Company determined Selective <sup>11</sup>	3
Free Elective <sup>12</sup>	3	Free Elective <sup>12</sup>	2
TOTAL	15	TOTAL	14

# Lafayette MDT Supplemental Information

All prerequisites must be met

## <sup>1</sup>Company chosen Approved Focus Area Selectives (33 credits)

Any Polytechnic course in the Departments of SOET and TLI

**IET 11100 Introduction to Manufacturing and Supply Chain Systems**

**TLI 11200 Foundations of Org Leadership**

**TLI 15200 Business Principles for Organizational Leadership**

**TLI 21300 Project Management**

**TLI 25400 Leading Change in Technology Organizations**

**TLI 31400 Leading Innovation in Organizations**

**TLI 39900 Critical Thinking and Ethics**

**TLI 45570 Cross-Cultural Issues**

**IET 31600 Statistical Quality Control**

**IET 23500 Introduction to Lean and Sustainable Systems**

**IET 33520 Human Factors for Technology Systems**

## <sup>2</sup>Mathematics/Statistics Selective (3 credits)

**MA 15800 Pre-calculus**

**MA 16010 Applied Calculus I**

**\*STAT 30100 Elementary Statistics Methods**

## <sup>3</sup>Oral Communication Selective (*satisfies Oral Communication for core, 3 credits*)

**COM 11400 Fundamentals of Speech or**

**COM 21200 Interpersonal Communication**

or **SCLA 10200 Critical Thinking &**

**Communication II**

## <sup>4</sup>English Composition Selective (*satisfies Written Communication for core, 3 credits*)

**ENGL 10100 English Composition I, or**

**ENGL 10600 Written Composition, or ENGL**

**10800 Accelerated First Year Composition**

or **SCLA 10100 Critical Thinking &**

**Communication I**

## <sup>5</sup>Advanced Communication Selective (3 credits)

**ENGL 31500 Speech Communication of Technical Information**

**ENGL 42100 Technical Writing**

**COM 32000 Small Group Communication**

## <sup>6</sup>Lab Science Foundation Selective (*satisfies Science for core, 4 credits*)

Must be a lab from the below list that is from the approved UCC Science list:

<http://www.purdue.edu/provost/initiatives/curriculum/course.html>

**ASTR 26300 Descriptive Astronomy: The Solar System**

**ASTR 26400 Descriptive Astronomy: Stars and Galaxies**

**BIOL 11000 Fundamentals of Biology I**

**BIOL 11100 Fundamentals of Biology II**

**BIOL 12100 Biology I: Ecology, Diversity, & Behavior**

**BIOL 13100 Biology II: Dev, Structure & Function of Organisms**

**BIOL 13500 First year Biology lab**

**BIOL 14600 Introduction to Biology**

**BIOL 20300 Human Anatomy and**

**Physiology**

**BIOL 20400 Human Anatomy and Physiology**

**BTNY 11000 Intro to Plant Science**

**CHM 11100 General Chemistry**

**CHM 11200 General Chemistry**

**CHM 11500 General Chemistry**

**CHM 11600 General Chemistry**

**CHM 12500 Introduction to Chemistry**

**CHM 12600 Introduction to Chemistry II**

**CHM 13600 General Chemistry Honors**

**CHM 20000 Fund of Chemistry**

**EAPS 10900 The Dynamic Earth**

**EAPS 11100 Physical Geology**

**EAPS 11200 Earth through Time**

**EAPS 24300 Earth Materials I**

**EAPS 24400 Earth Materials II**

**ENTM 20600 General Entomology &**

**ENTM 20700 General Entomology Lab**

**PHYS 17200 Modern Mechanics**

**PHYS 21800 General Physics I**

**PHYS 21900 General Physics II**

**PHYS 22000 General Physics**

**PHYS 22100 General Physics**

**PHYS 24100 Electricity & Optics**

**PHYS 27200 Electric & Magnetic**

**Interactions**

## <sup>7</sup>Science Foundation Selective (*satisfies Science for core, 3 credits*)

Must be a class from the approved UCC Science list: <http://www.purdue.edu/provost/initiatives/curriculum/course.html>

**CHM 11100 General Chemistry**

**PHYS 21800 General Physics I**

**PHYS 21900 General Physics II**

<sup>8</sup>**Behavioral/Social Science Foundational Selective** (*satisfies Human Cultures Behavioral/Social Science for core, 3 credits*)

Must be a class from the approved UCC Science list: <http://www.purdue.edu/provost/initiatives/curriculum/course.html>

**(3) PSY 12000 Elementary Psychology**

**(3) SOC 10000 Introductory Sociology**

(3) ANTH 10000 Introductory Anthropology

**(3) ECON 21000 Principles of Economics**

**(3) POL 10100 American Government**

<sup>9</sup>**Humanities Foundational Selective** (*satisfies Human Cultures Humanities for core, 3 credits*)

See approved UCC Humanities list at: <http://www.purdue.edu/provost/initiatives/curriculum/course.html>

**(3) PHIL 11000 Intro to Philosophy**

**(3) PHIL 11100 Ethics**

**(3) HIST 15100 American History to 1877**

**(3) HIST 15200 US Since 1877**

<sup>10</sup>**Global/Professional Selective (3 credits)**

**TECH 33000 Tech and the Global Society**

**Approved Study Abroad Course**

**TLI 35600 Global Tech Leadership**

<sup>11</sup>**Any Purdue Polytechnic Course as determined by the Company (45 credits)**

(3) CNIT 10500 Introduction to "C" Programming

(3) CNIT 15501 Introduction to Software Development

**(3) CGT 11000 Technical Graphics Communications**

(3) ECET 22400 Electronic Systems

(3) MET 10200 Production Design and Specifications

(3) MET 11100 Applied Statics

(3) MET 14300 Materials and Processes I

(3) MET 14400 Materials and Processes II

(3) MET 28400 Introduction to Industrial Controls

(3) MFET 24800 Introduction to Robotics

(3) MFET 34400 Automated Manufacturing Processes

**(3) IET 21400 Introduction to Supply Chain Management**

**(3) TLI 22000 Designing Technology for People**

**(3) IET 34200 Warehouse and Inventory Management**

**(3) IET 33400 Economic Analysis for Technology Systems**

**(3) IET 43530 Operations Planning and Management**

**(3) IET 43640 Lean Six Sigma**

**(3) IET 33620 Total Productive Maintenance**

**(3) TLI 35560 Legal Aspects and Issues in Organizations**

**(3) TECH 32000 Technology and the Organization**

<sup>12</sup>**Free Electives (8 credits)**