

**Catalog Year 2019-2020**

ITC, Energy Systems – Mechanical Engineering Tech

A Major Academic Plan (MAP) is one way to complete a degree in a set number of semesters. The *example* below is an efficient strategy only. Actual plans for individual students will vary based on advisor recommendations and academic needs. Official Program Requirements including Major, General Education, Elective, and university requirements (see pg.2) are based on Catalog Year.

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| **Course Subject and Title** | **Cr.** | **Min.**  **Grade** | **\*GE,**  **UU or UM** | **\*\*Sem. Offered** | **Prerequisite** | **Co Requisite** |
| Semester One | | | | | | |
| ESET 0100: Engineering Technology Orientation | 1 | C- |  | F,S |  |  |
| ESET 0100L: Engineering Technology Orientation Lab | 1 | C- |  | F,S |  |  |
| ESET 0121: Basic Electricity and Electronics | 4 | C- |  | F |  | ESET 0121L |
| ESET 0121L: Basic Electricity and Electronics Lab | 3 | C- |  | F |  | ESET 0121 |
| ESET 0123: Mechanical Power Transmission | 2 | C- |  | D |  | ESET 0123L |
| ESET 0123L: Mechanical Power Transmission Lab | 1 | C- |  | D |  | ESET 0123 |
| ESET 0125: Introduction to Structural Welding | 1 | C- |  | F |  |  |
| ESET 0140: Applied Technical Intermediate Algebra | 5 | C- |  | F | (Appropriate Placement Score) |  |
| Total | **18** |  |  |  |  |  |
| Semester Two | | | | | | |
| GE Objective 2: COMM 1101 Principles of Speech | 3 | C- | GE |  |  |  |
| GE Objective 5: PHYS 1101 & Lab Elements of Physics | 4 | C- | GE |  |  |  |
| ESET 0122: Electrical Systems and Motor Control Theory | 3 | C- |  | S | ESET 0121 | ESET 0122L |
| ESET 0122L: Electrical Systems and Motor Control Theory Lab | 1 | C- |  | S | ESET 0121L | ESET 0122 |
| ESET 0126: Introduction to Mechanical Drafting and CAD | 1 | C- |  | S |  |  |
| ESET 0127: Mechanical Power Transmission II | 2 | C- |  | S | ESET 0121, 0123, 0140 | ESET 0127L |
| ESET 0127L: Mechanical Power Transmission Lab II | 2 | C- |  | S | ESET 0121, 0123, 0140 | ESET 0127 |
| Total | **16** |  |  |  |  |  |
| Semester Three | | | | | | |
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| Total |  |  |  |  |  |  |
| Semester Four | | | | | | |
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| Total |  |  |  |  |  |  |
| \*GE=General Education Objective, UU=Upper Division University, UM= Upper Division Major  \*\*See Course Schedule section of Course Policies page in the e-catalog (or input F, S, Su, etc.) | | | | | | |

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| **2019-2020 Major Requirements** | **CR** | **GENERAL EDUCATION OBJECTIVES**  **\* Satisfy 2 and 5 Only** | | | | | | **7 Cr.**  **Min** |
| **Energy Sys – Mechanical, ITC - MAJOR REQUIREMENTS** | **27** | 1. Written English (6 cr. min) ENGL 1101 (or equivalent) | | | | | |  |
| ESET 0100: Engineering Technology Orientation | 1 |  | | | | | |  |
| ESET 0100L: Engineering Technology Orientation Lab | 1 | 2. Spoken English (3 cr. min) COMM 1101 | | | | | | 3 |
| ESET 0121: Basic Electricity and Electronics | 4 | 3. Mathematics (3 cr. min) | | | | | |  |
| ESET 0121L: Basic Electricity and Electronics Lab | 3 | 4. Humanities, Fine Arts, Foreign Lang. | | | | | | |
| ESET 0122: Electrical Systems and Motor Control Theory | 3 |  | | | | | |  |
| ESET 0122L: Electrical Systems and Motor Control Theory Lab | 1 |  | | | | | |  |
| ESET 0123: Mechanical Power Transmission | 2 | 5. Natural Sciences **(1 Course including a lab; 4 cr. min)** | | | | | | |
| ESET 0123L: Mechanical Power Transmission Lab | 1 | PHYS 1101 and 1101 Lab Elements of Physics | | | | | | 4 |
| ESET 0125: Introduction to Structural Welding | 1 |  | | | | | |  |
| ESET 0126: Introduction to Mechanical Drafting and CAD | 1 | 6. Behavioral and Social Science **(1 course; 3 cr. min)** | | | | | | |
| ESET 0127: Mechanical Power Transmission II | 2 |  | | | | | |  |
| ESET 0127L: Mechanical Power Transmission Lab II | 2 |  | | | | | |  |
| ESET 0140: Applied Technical Intermediate Algebra | 5 | **One Course from EITHER Objective 7 OR 8** | | | | | | |
|  |  | 7. Critical Thinking | | | | | |  |
|  |  | 8. Information Literacy | | | | | |
|  |  | 9. Cultural Diversity | | | | | | |
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|  |  | General Education Elective to reach 15 cr. min. | | | | | | |
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|  |  | **Total GE** | | | | | | **7** |
|  |  | Undergraduate Catalog and GE Objectives by [Catalog Year](https://www.isu.edu/advising/academic-support/general-education/) | | | | | | |
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|  |  | **MAP Credit Summary** | | | | | **CR** | |
|  |  | Major | | | | | 27 | |
|  |  | General Education | | | | | 7 | |
|  |  | Free Electives to reach 60 | | | | | 0 | |
|  |  | TOTAL | | | | | 34 | |
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|  |  | **Graduation Requirement Minimum Credit Checklist** | | | **Confirmed** | | | |
|  |  | Minimum 3 cr. General Education Objectives | | |  | | | |
|  |  | Minimum 32 cr. Total | | |  |  | | |
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| **Advising Notes** | | ***MAP Completion Status (for internal use only)*** | | | | | | |
| Students must register concurrently for the lab course associated with | |  | *Date* | | | | | |
| Each theory course. | | *Department:* |  | | | | | |
|  | | *CAA or COT:* | TIM 06/18/2019 | | | | | |
|  | | *Registrar:* |  | | | | | |
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Form Revised 1.24.2018