

**Catalog Year 2018-2019**

ITC, Energy Systems – Nuclear Operations 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 0140: Applied Technical Intermediate Algebra | 5 | C- |  | F | (Appropriate Placement Score) |  |
| ESET 0151: Nuclear Industry Fundamentals Concepts | 3 | C- |  | F |  | ESET 0151L |
| ESET 0151L: Nuclear Industry Fundamental Concepts Lab | 1 | C- |  | F |  | ESET 0151 |
|  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 0152: Nuclear Careers and Information  | 1 | C- |  | F,S |  |  |
| ESET 0153: Radiological Control Fundamentals | 3 | C- |  | S | ESET 0151, 0151L |  |
|  |  |  |  |  |  |  |
|  Total | **15** |  |  |  |  |  |
| 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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| **2018-2019 Major Requirements** | **CR** | **GENERAL EDUCATION OBJECTIVES****\* Satisfy 2 and 5 Only**  | **7 Cr.****Min** |
| **Energy Sys – Nuclear, ITC - MAJOR REQUIREMENTS** | **26** | 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. **(1 course; 3cr min)** |
| ESET 0122: Electrical Systems and Motor Control Theory | 3 |  |  |
| ESET 0122L: Electrical Systems and Motor Control Theory Lab | 1 |  |  |
| ESET 0140: Applied Technical Intermediate Algebra | 5 | 5. Natural Sciences **(1 Course including a lab; 4 cr. min)**  |
| ESET 0151: Nuclear Industry Fundamentals Concepts | 3 |  PHYS 1101 and 1101 Lab Elements of Physics  | 4 |
| ESET 0151L: Nuclear Industry Fundamental Concepts Lab | 1 |   |  |
| ESET 0152: Nuclear Careers & Information (1 cr. x3 semesters) | 3 | 6. Behavioral and Social Science **(1 course; 3 cr. min)** |
| ESET 0153: Radiological Control Fundamentals | 3 |  |  |
|  |  |  |  |
|  |  | **One Course from EITHER Objective 7 OR 8** |
|  |  | 7. Critical Thinking  |  |
|  |  | 8. Information Literacy  |
|  |  | 9. Cultural Diversity  |
|  |  |  |  |
|  |  | General Education Elective to reach 15 cr. min.  |
|  |  |   |  |
|  |  |  **Total GE** | **7** |
|  |  | Undergraduate Catalog and GE Objectives by [Catalog Year](https://www.isu.edu/advising/academic-support/general-education/)  |
|  |  |
|  |  |
|  |  | **MAP Credit Summary** | **CR** |
|  |  | Major  | 26 |
|  |  | General Education  | 7 |
|  |  | Free Electives to reach 60 | 0 |
|  |  |  TOTAL | 33 |
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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:* | CZ, 12/717 |
| MATH 1160 and 1170 have pre-requisite courses MATH 1143, 1144 | *Registrar:*  |  |
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 Form Revised 1.24.2018