

**Catalog Year 2019-2020**

Instrumentation Engineering Technology - AAS

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 |
| GE Objective 2: COMM 1101, Principles of Speech | 3 | D- |  | F, S |  |  |
| ESET 0100: Introduction to Engineering Technology | 1 | C- |  | F, S |  |  |
| ESET 0100L: Introduction to Engineering Technology Lab | 1 | C- |  | F, S |  |  |
| ESET 0101: Electrical Circuits I | 5 | C- |  | F, S |  | ESET 0101L |
| ESET 0101L: Electrical Circuits I Laboratory | 5 | C- |  | F, S |  | ESET 0101 |
| ESET 0141: Applied Mathematics I | 4 | C- |  | F, S |  | ESET 0101 |
|  |  |  |  |  |  |  |
|  Total | 19 |  |  |  |  |  |
| Semester Two |
| GE Objective 5: PHYS 1101/L or CHEM 1100 | 4 | D- | GE | F, S |  |  |
| TGE 0159: Internship Strategies | 1 | D- |  | F, S |  |  |
| ESET 0102: Electrical Circuits II | 5 | C- |  | F, S |  | ESET 0102L |
| ESET 0102L: Electrical Circuits II Laboratory | 5 | C- |  | F, S |  | ESET 0102 |
| ESET 0110: Introduction to Process Control | 1 | C- |  | F, S |  |  |
| ESET 0110L: Introduction to Process Control Laboratory | 1 | C- |  | F, S  |  |  |
| ESET 0142: Applied Mathematics II | 4 | C- |  | F, S |  | ESET 0102 |
|  |  |  |  |  |  |  |
|  Total | 21 |  |  |  |  |  |
| Semester Three |
| GE Objective 3: MATH 1153 or MATH 1170 | 3-4 | D- | GE | F, S |  |  |
| GE Objective 1: ENGL 1101 English Composition | 3 | D- | GE | F, S |  |  |
| INST 0281: Electrical Automation Theory | 8 | C- |  | F, S | ESET 0102, ESET 0102L, ESET 0100, ESET 0110L | INST 0282 |
| INST 0282: Electrical automation Theory Laboratory | 5 | C- |  | F, S |  | INST 0281 |
|  |  |  |  |  |  |  |
|  Total | 19-20 |  |  |  |  |  |
| Semester Four |
| GE Objective 6: Social & Behavioral Ways of Knowing  | 3 | C- | GE | F, S |  |  |
| INST 0292: Process Measurement and Control Theory | 10 | C- |  | F, S | INST 0281, INST 0282, INST 0293 |  |
| INST 0293: Process Measurement and Control Lab | 4 | C- |  | F, S | INST 0292 |  |
|  |  |  |  |  |  |  |
|  Total | 17 |  |  |  |  |  |
| \*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 Objectives 1,2,3,4,5,6 (7 or 8) and 9** | **36 cr. min** |
| **MAJOR REQUIREMENTS** | **60** | 1. Written English (6 cr. min) ENGL 1101 | 3 |
| ESET 0100: Introduction to Engineering Technology | 1 |   |  |
| ESET 0100L: Introduction to Engineering Technology Laboratory | 1 | 2. Spoken English (3 cr. min) COMM 1101 | 3 |
| ESET 0101: Electrical Circuits I | 5 | 3. Mathematics (3 cr. min) MATH 1153 or 1170 | 3-4 |
| ESET 0101L: Electrical Circuits I Laboratory | 5 | 4. Humanities, Fine Arts, Foreign Lang. **(2 courses; 2 categories; 6 cr. min)** |
| ESET 0102: Electrical Circuits II | 5 |  |  |
| ESET 0102L: Electrical Circuits II Laboratory | 5 |  |  |
| ESET 0110: Introduction to Process Control | 1 | 5. Natural Sciences **(2 lectures-different course prefixes, 1 lab; 7 cr. min)** |
| ESET 0110L: Introduction to Process Control Laboratory | 1 | CHEM 1100 or PHYS 1101/L | 4 |
| ESET 0141: Applied Mathematics I | 4 |  |  |
| ESET 0142: Applied Mathematics II | 4 |  |  |
| INST 0281: Electrical Automation Theory | 8 | 6. Behavioral and Social Science **(2 courses-different prefixes; 6 cr. min)** |
| INST 0282: Electrical automation Theory Laboratory | 5 | Any Course that fulfills this Objective | 3 |
| INST 0292: Process Measurement and Control Theory | 10 |  |  |
| INST 0293: Process Measurement and Control Laboratory | 4 | One Course from EITHER Objective 7 OR 8 **(1course; 3 cr. min)** |
| TGE 0159: Internship Strategies | 1 | 7. Critical Thinking |  |
|  |  | 8. Information Literacy  |
|  |  | 9. Cultural Diversity **(1 course; 3 cr. min)** |
|  |  |  |  |
|  |  | General Education Elective to reach 36 cr. min. **(if necessary)** |
|  |  |   |  |
|  |  |  **Total GE** |  |
|  |  | 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  | 60 |
|  |  | General Education  | 16-17 |
|  |  | Free Electives to reach 120 credits | - |
|  |  |  TOTAL | 76-77 |
|  |  |  |
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|  |  |
|  |  | **Graduation Requirement Minimum Credit Checklist** | **Confirmed** |
|  |  | Minimum 36 cr. General Education Objectives (15 cr. AAS) |  |
|  |  | Minimum 16 cr. Upper Division in Major (0 cr. Associate) |  |  |
|  |  | Minimum 36 cr. Upper Division Overall (0 cr. Associate) |  |  |
|  |  | Minimum of 120 cr. Total (60 cr. Associate) |  |  |
|  |  |  |  |
| **Advising Notes** | ***MAP Completion Status (for internal use only)*** |
|  |  | *Date* |
|  | *Department:*  | TIM 06/18/2019 |
|  | *CAA or COT:* |  |
|  | *Registrar:*  |  |
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 Form Revised 1.24.2018