

|  |  |
| --- | --- |
| **Catalog Year 2021-2022**  BTC, Instrumentation and Automation Assistant | ***(For internal use only)***  *No change*  *UCC proposal* |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Course Subject and Title** | **Cr.** | **Min.**  **Grade** | **\*GE,**  **UU or UM** | **\*\*Sem. Offered** | | **Prerequisite** | | **Co-Requisite** |
| Semester One | | | | | | | | |
| ESET 0103: Introduction to Electronics Theory | 1 | C- |  | | D | |  |  |
| ESET 0103L: Introduction to Electronics Lab | 1 | C- |  | | D | |  |  |
| ESET 0104: DC Electronics Principles Theory | 2 | C- |  | | D | |  |  |
| ESET 0104L: DC Electronics Principles Lab | 2 | C- |  | | D | |  |  |
| ESET 0105: AC Electronics Principles Theory | 4 | C- |  | | D | |  |  |
| ESET 0105L: AC Electronics Principles Lab | 2 | C- |  | | D | |  |  |
| Total | 12 |  |  | |  | |  |  |
| Semester Two | | | | | | | | |
| INST 0140: Introduction to Motors and Motor Control Theory | 2 | C- |  | | S | |  |  |
| INST 0220: Introduction to Programmable Logic Controllers | 3 | C- |  | | F,S | |  |  |
| INST 0240: Theory | 2 | C- |  | | F,S,Su | |  |  |
| INST 0242: Theory | 2 | C- |  | | F,S,Su | |  |  |
| INST 0251: Laboratory | 1 | C- |  | | F,S,Su | |  |  |
| INST 0253: Laboratory | 1 | C- |  | | F,S,Su | |  |  |
| INST 0254: Laboratory | 1 | C- |  | | F,S,Su | |  |  |
| Total | 12 |  |  | |  | |  |  |
| Semester Three | | | | | | | | |
|  |  |  |  | |  | |  |  |
|  |  |  |  | |  | |  |  |
|  |  |  |  | |  | |  |  |
|  |  |  |  | |  | |  |  |
|  |  |  |  | |  | |  |  |
| Total |  |  |  | |  | |  |  |
| Semester Four | | | | | | | | |
|  |  |  |  | |  | |  |  |
|  |  |  |  | |  | |  |  |
|  |  |  |  | |  | |  |  |
|  |  |  |  | |  | |  |  |
|  |  |  |  | |  | |  |  |
| Total |  |  |  | |  | |  |  |
| Semester Five | | | | | | | | |
|  |  |  |  | |  | |  |  |
|  |  |  |  | |  | |  |  |
|  |  |  |  | |  | |  |  |
|  |  |  |  | |  | |  |  |
|  |  |  |  | |  | |  |  |
| Total |  |  |  | |  | |  |  |
| Semester Six | | | | | | | | |
|  |  |  |  | |  | |  |  |
|  |  |  |  | |  | |  |  |
|  |  |  |  | |  | |  |  |
|  |  |  |  | |  | |  |  |
|  |  |  |  | |  | |  |  |
| 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.) | | | | | | | | |

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **2021-2022 Major Requirements** | **CR** | **GENERAL EDUCATION OBJECTIVES**  **Satisfy Objectives 1,2,3,4,5,6 (7 or 8) and 9** | | | | **0 cr. min** | |
| **MAJOR REQUIREMENTS** | **24** | 1. Written English (3 cr. min) ENGL 1101 | | | |  | |
| ESET 0103: Introduction to Electronics Theory | 1 | ENGL 1102 | | | |  | |
| ESET 0103L: Introduction to Electronics Lab | 1 | 2. Spoken English (3 cr. min) COMM 1101 | | | |  | |
| ESET 0104: DC Electronics Principles Theory | 2 | 3. Mathematics (3 cr. min) MATH 1153 or MATH 1170 | | | |  | |
| ESET 0104L: DC Electronics Principles Lab | 2 | 4. Humanities, Fine Arts, Foreign Lang. | | | | | |
| ESET 0105: AC Electronics Principles Theory | 4 |  | | | |  | |
| ESET 0105L: AC Electronics Principles Lab | 2 |  | | | |  | |
| INST 0140: Intro to Motors and Motor Control Theory | 2 | 5. Natural Sciences **(1 lecture, 1 lab; 4 cr. min)** | | | | | |
| INST 0220: Introduction to Programmable Logic Controllers | 3 | PHYS 1101/L | | | |  | |
| INST 0240: Theory | 2 |  | | | |  | |
| INST 0242: Theory | 2 |  | | | |  | |
| INST 0251: Laboratory | 1 | 6. Behavioral and Social Science **(1 course; 3 cr. min)** | | | | | |
| INST 0253: Laboratory | 1 |  | | | |  | |
| INST 0254: Laboratory | 1 |  | | | |  | |
|  |  | One Course from EITHER Objective 7 OR 8 | | | | | |
|  |  | 7. Critical Thinking | | | |  | |
|  |  | 8. Information Literacy | | | |
|  |  | 9. Cultural Diversity | | | | | |
|  |  |  | | | |  | |
|  |  | General Education Elective to reach 36 cr. min. **(if necessary)** | | | | | |
|  |  |  | | | |  | |
|  |  | **Total GE** | | | | **0** | |
|  |  | Undergraduate Catalog and GE Objectives by [Catalog Year](https://www.isu.edu/advising/academic-support/general-education/)  *http://coursecat.isu.edu/undergraduate/programs/* | | | | | |
|  |  |
|  |  |  | | | | | |
|  |  |
|  |  |
|  |  | **MAP Credit Summary** | | | | **CR** | |
|  |  | Major | | | | 24 | |
|  |  | General Education | | | | 0 | |
|  |  | Upper Division Free Electives to reach 36 credits | | | | 0 | |
|  |  | Free Electives to reach 120 credits | | | | 0 | |
|  |  | TOTAL | | | | 24 | |
|  |  |  | | | | | |
|  |  |
|  |  |
|  |  |
|  |  | **Graduation Requirement Minimum Credit Checklist** | | | **Confirmed** | | |
|  |  | Minimum 36 cr. General Education Objectives (15 cr. AAS) | | |  | | |
|  |  | Minimum 15 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* | | | | |
|  | |  |  | | | | |
|  | | *CAA or COT:* | TIM 10/21/2019 | | | | |
|  | |  |  | | | | |
|  | | **Complete College American Momentum Year**  **Math and English course in first year-Specific GE MATH course identified**  **9 credits in the Major area in first year**  **15 credits each semester (or 30 in academic year)**  **Milestone courses** | | | | | |
|  | |
|  | |
|  | |
|  | | Form Revised 9.10.2019 | | | | | |

BTC, Instrumentation and Automation Assistant Page 2