

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.

| Course Subject and Title  | Cr.    | Min. Grade | *GE, UU or UM | **Sem. Offered | Prerequisite   | Co-Requisite         |
|---|--------|------------|---------------|----------------|--|----------------------|
| <b>Semester One</b>   |        |            |               |                |  |                      |
| ESET 1162: Industrial Safety and Regulations  | 2      | C-         |               | F, S, D        |  |                      |
| ESET 2205: Fundamentals of Control Logic  | 3      | C-         |               | F, S, D        | Permission of instructor                                 |                      |
| ESET 1182: Information Technology Fundamentals  | 3      | C-         |               | F, S           | Minimum score of 30 on ALEKS or equivalent               |                      |
| ESET 2282: Introduction to Networking   | 3      | C-         |               | F              |  |                      |
| CYBR 3383: Security Design for Cyber-Physical Systems   | 3      | C-         |               | F, D           | ESET 1181, 2223, 2227, or instructor approval            | ESET 2282            |
| CYBR 3384: Risk Management for Cyber-Physical Systems   | 3      | C-         |               | F, D           | ESET 1181, 2223, 2227                                    | ESET 2282, CYBR 3383 |
| Total   | 17     |            |               |                |  |                      |
| <b>Semester Two</b>   |        |            |               |                |  |                      |
| ESET 1120: Introduction to Energy Systems   | 2      | C-         |               | F, S, D        |  | ESET 1120L           |
| ESET 1120L: Introduction to Energy Systems Lab  | 1      | C-         |               | F, S, D        |  | ESET 1120            |
| ESET 2242: Practical Process Measurements and Control   | 2      | C-         |               | F, D           | ESET 1122 or permission of instructor                    |                      |
| <b>OR</b>   |        |            |               |                |  |                      |
| ESET 2222: Process Control Theory <b>AND</b><br>ESET 2226: Process Control Devices Laboratory | 3<br>1 |            |               |                | F, S, D  |                      |
| CYBR 4481: Defending Critical Infrastructure and Cyber Physical Systems                       | 3      | C-         |               | S, D           | ESET 2282, CYBR 3383, 3384, or instructor approval       |                      |
| CYBR 4486: Network Security for Industrial Environments                                       | 3      | C-         |               | S, D           | ESET 2282, CYBR 3383, or instructor approval             |                      |
| CYBR 4487: Professional Development and Certification   | 3      | C-         |               | S, D           | CYBR 3383, 3384  | CYBR 4481, 4486      |
| INFO 4411: Intermediate Information Assurance   | 3      | C-         |               | D              | INFO 1150 or CS 1337 or INFO 3310 or instructor approval |                      |
| Total   | 17-19  |            |               |                |  |                      |

\*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.)

| 2024-2025 Major Requirements  | CR           | GENERAL EDUCATION OBJECTIVES<br>Satisfy Objectives 1,2,3,4,5,6 (7 or 8) and 9  | 0 cr. min        |
|---|--------------|--|------------------|
| <b>MAJOR REQUIREMENTS</b>   | <b>34-36</b> | 1. Written English   |                  |
| ESET 1120: Introduction to Energy Systems   | 2            |  |                  |
| ESET 1120L: Introduction to Energy Systems Lab  | 1            | 2. Spoken English  |                  |
| ESET 1162: Industrial Safety and Regulations  | 2            | 3. Mathematics   |                  |
| ESET 1182: Information Technology Fundamentals  | 3            | 4. Humanities, Fine Arts, Foreign Lang.  |                  |
| ESET 2205: Fundamentals of Control Logic  | 3            |  |                  |
| ESET 2242: Practical Process Measurements and Control<br><b>OR</b><br>ESET 2222: Process Control Theory <b>AND</b><br>ESET 2226: Process Control Devices Laboratory | 2-4          | 5. Natural Sciences  |                  |
| ESET 2282: Introduction to Networking   | 3            | 6. Behavioral and Social Science   |                  |
| CYBR 3383: Security Design for Cyber-Physical Systems   | 3            |  |                  |
| CYBR 3384: Risk Management for Cyber-Security Systems   | 3            |  |                  |
| CYBR 4481: Defending Critical Infrastructure & Cyber Physical Systems   | 3            |  |                  |
| CYBR 4486: Network Security for Industrial Environments   | 3            | One Course from EITHER Objective 7 OR 8  |                  |
| CYBR 4487: Professional Development and Certification   | 3            | 7. Critical Thinking   |                  |
| INFO 4411: Intermediate Information Assurance   | 3            | 8. Information Literacy  |                  |
|   |              | 9. Cultural Diversity  |                  |
|   |              |  |                  |
|   |              | General Education Elective to reach 36 cr. min.  |                  |
|   |              |  |                  |
|   |              | <b>Total GE</b>  | <b>0</b>         |
|   |              | Undergraduate Catalog and GE Objectives by <a href="http://coursecat.isu.edu/undergraduate/programs/">Catalog Year</a> |                  |
|   |              | <a href="http://coursecat.isu.edu/undergraduate/programs/">http://coursecat.isu.edu/undergraduate/programs/</a>        |                  |
|   |              |  |                  |
|   |              |  |                  |
|   |              | <b>MAP Credit Summary</b>  | <b>CR</b>        |
|   |              | Major  | 34-36            |
|   |              | General Education  | 0                |
|   |              | Upper Division Free Electives to reach 36 credits  | 0                |
|   |              | Free Electives to reach 120 credits  | 0                |
|   |              | <b>TOTAL</b>   | <b>34-36</b>     |
|   |              |  |                  |
|   |              |  |                  |
|   |              | <b>Graduation Requirement Minimum Credit Checklist</b>   | <b>Confirmed</b> |
|   |              | 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)  |                  |
|   |              |  |                  |
|   |              |  |                  |
| <b>Advising Notes</b>   |              | <b>MAP Completion Status (for internal use only)</b>   |                  |
|   |              |  | <i>Date</i>      |
|   |              |  |                  |
|   |              | CAA or COT:  | EA 06/18/24      |
|   |              |  |                  |
|   |              | <b>Complete College American Momentum Year</b>   |                  |
|   |              | <b>Math and English course in first year-Specific GE MATH course identified</b>  |                  |
|   |              | <b>9 credits in the Major area in first year</b>   |                  |
|   |              | <b>15 credits each semester (or 30 in academic year)</b>   |                  |
|   |              | <b>Milestone courses</b>   |                  |