

**Catalog Year 2018-2019**

ADTC, Robotics and Communications Systems - ET

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 | C- | GE |  |  |  |
| RCET 0153A: Basic Electricity & DC Circuit Theory | 4 | C- |  | F,S |  | RCET 0153B |
| RCET 0153B: Basic Electricity & AC Circuit Theory | 4 | C- |  | F,S |  | RCET 0153A |
| RCET 0155A: Basic Electricity & DC Circuit Lab | 2 | C- |  | F,S |  | RCET 0155B |
| RCET 0155B: Basic Electricity & AC Circuit Lab | 3 | C- |  |  |  | RCET 0153B, 0155A |
|  Total | **16** |  |  |  |  |  |
| Semester Two |
| GE Objective 5: PHYS 1101/1101L Elements of Physics | 4 | C- | GE |  |  |  |
| RCET 0142: Applied Mathematics II | 4 | C- |  | F,S | RCET 0153B |  |
| RCET 0154: Electronic Control Devices Theory | 5 | C- |  | F,S | RCET 0153B, 0155B | RCET 0156, 0142 |
| RCET 0156: Electronic Control Devices Lab | 5 | C- |  | F,S | RCET 0153B, 0155B | RCET 0154 |
|  Total | **18** |  |  |  |  |  |
| Semester Three |
| RCET 0251: Systems Analog & Digital Theory | 7 | C- |  | F,S |  | RCET 0253 |
| RCET 0253: Systems Analog & Digital Lab | 5 | C- |  | F,S | RCET 0156 | RCET 0251 |
| RCET 0264: Introductory Calculus | 4 | C- |  | F,S | RCET 0142 |  |
| RCET 0271: Introduction to Lab Simulation Software | 2 | C- |  | F,S |  |  |
|  |  |  |  |  |  |  |
|  Total | **18** |  |  |  |  |  |
| Semester Four |
| RCET 0265: Computer Fundamentals & Intro to Programming | 4 | C- |  | F,S |  |  |
| RCET 0267: Radio Frequency Transmission Theory | 7 | C- |  | F,S | RCET 0251, 0253, 0264 | RCET 0268 |
| RCET 0268: Radio Frequency Transmission Lab | 5 | C- |  | F,S | RCET 0251, 0253, 0264 | RCET 027 |
| RCET 0270: Electronic Drafting | 2 | C- |  | F,S |  |  |
|  |  |  |  |  |  |  |
|  Total | **18** |  |  |  |  |  |
| Semester Five |
| GE Objective 1: ENGL 1101 English Composition  | 3 | D- | GE |  | Appropriate Placement Score |  |
| RCET 0371: Advanced Math for Electronics | 4 | C- |  | F,S |  |  |
| RCET 0373: Advanced Digital Theory | 5 | C- |  | F,S |  |  |
| RCET 0375: Advanced Digital Lab | 5 | C- |  | F,S |  |  |
|  |  |  |  |  |  |  |
|  Total | **17** |  |  |  |  |  |
| Semester Six |
| GE Objective 3: RCET 1372 Calculus for Advanced Electronics | 4 | C- | GE |  |  |  |
| TGE 0158: Employment Strategies | 2 | D- |  | D |  |  |
| RCET 0374: Advanced Pulse Theory | 5 | C- |  | F,S |  | RCET 0376 |
| RCET 0376: Advanced Pulse Laboratory | 5 | C- |  | F,S |  | RCET 0374 |
|  Total | **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.)  |

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| **2018-2019 Major Requirements** | **CR** | **GENERAL EDUCATION OBJECTIVES****\* Satisfy 1, 2, 3, and 5 only** | **15 Cr.****Min** |
| **RCET, ADTC - MAJOR REQUIREMENTS** | **89** | 1. Written English (6 cr. min) ENGL 1101 (or equivalent) | 3 |
| RCET 0142: Applied Mathematics II | 4 |   |  |
| RCET 0153A: Basic Electricity and DC Circuit Theory | 4 | 2. Spoken English (3 cr. min) COMM 1101 | 3 |
| RCET 0153B: Basic Electricity and AC Circuit Theory | 4 | 3. Mathematics (3 cr. min) RCET 1372 | 4 |
| RCET 0154: Electronic Control Devices Theory | 5 | 4. Humanities, Fine Arts, Foreign Lang. |
| RCET 0155A: Basic Electricity and DC Circuit Lab | 2 |  |  |
| RCET 0155B: Basic Electricity and AC Circuit Lab | 3 |  |  |
| RCET 0156: Electronic Control Devices Lab | 5 | 5. Natural Sciences **(1 Course including a lab; 4 cr. min)**  |
| RCET 0251: Systems Analog and Digital Theory | 7 |  PHYS 1101 and 1101 Lab Elements of Physics | 4 |
| RCET 0253: Systems Analog and Digital Laboratory | 5 |  |  |
| RCET 0264: Introductory Calculus | 4 | 6. Behavioral and Social Science **(1 course; 3 cr. min)** |
| RCET 0265: Computer Fundamentals & Intro to Programming | 4 |  |  |
| RCET 0267: Radio Frequency Transmission Theory | 7 |  |  |
| RCET 0268: Radio Frequency Transmission Lab | 5 | **One Course from EITHER Objective 7 OR 8** |
| RCET 0270: Electronic Drafting | 2 | 7. Critical Thinking  |  |
| RCET 0271: Introduction to Lab Simulation Software | 2 | 8. Information Literacy  |
| RCET 0371: Advanced Math for Electronics | 4 | 9. Cultural Diversity  |
| RCET 0373: Advanced Digital Theory | 5 |  |  |
| RCET 0374: Advanced Pulse Theory | 5 | General Education Elective to reach 15 cr. min.  |
| RCET 0375: Advanced Digital Laboratory | 5 |   |  |
| RCET 0376: Advanced Pulse Laboratory | 5 |  **Total GE** | **14** |
| TGE 0158: Employment Strategies | 2 | Undergraduate Catalog and GE Objectives by [Catalog Year](https://www.isu.edu/advising/academic-support/general-education/)  |
| RCET 1372: Calculus for Advanced Electronics (counted in GE Obj. 3) |
|  |  |
|  |  | **MAP Credit Summary** | **CR** |
|  |  | Major  | 89 |
|  |  | General Education  | 14 |
|  |  | Free Electives to reach 60 | 0 |
|  |  |  TOTAL | 103 |
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|  |  | **Graduation Requirement Minimum Credit Checklist** | **Confirmed** |
|  |  | Minimum 15 cr. General Education Objectives (Associate) |  |
|  |  | Minimum 60 cr. Total (Associate) |  |  |
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| **Advising Notes** | ***MAP Completion Status (for internal use only)*** |
|  |  | *Date* |
|  | *Department:*  |  |
|  | *CAA or COT:* | TIM 08/02/2018 |
|  | *Registrar:*  |  |
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 Form Revised 1.24.2018