

**Catalog Year 2018-2019**

ATC Powerplant

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 |
| AIRM 0100: Introduction to Aircraft and Aerodynamics | 1 |  |  | F |  |  |
| AIRM 0101: Mathematics | 3 |  |   | F |  |  |
| AIRM 0104: Materials and Processes | 5 |  |  | F |  |  |
| AIRM 0107: Forms and Regulations | 3 |  |  | F |  |  |
| AIRM 0113: Rigging and Inspection | 3 |  |  | F |  |  |
|  Total | **15** |  |  |  |  |  |
| Semester Two |
| AIRM 0108: Basic Electricity | 3 |  |  | S |  |  |
| AIRM 0109: Fluid Systems | 4 |  |  | S |  |  |
| AIRM 0110: Landing Gear Systems | 2 |  |  | S |  |  |
| AIRM 0114: Metallic Structures | 3 |  |  | S |  |  |
| AIRM 0115: Aircraft Instruments, Comm, and Navigation | 2 |  |  | S |  |  |
|  Total | **14** |  |  |  |  |  |
| Semester Three (Summer) |
| AIRM 0111: Auxiliary Systems | 2 |  |  | Su |  |  |
| AIRM 0112: Aircraft Electrical Systems  | 4 |  |  | Su |  |  |
|  Total | **6** |  |  |  |  |  |
| Semester Four |
| AIRM 0116: Non-Metallic Structures | 4 |  |  | F |  |  |
| AIRM 0223: Basic Turbine Engines | 4 |  |  | F |  |  |
| AIRM 0224: Advanced Turbine Engines | 3 |  |  | F |  |  |
| AIRM 0225: Powerplant Lubrication Systems | 3 |  |  | F |  |  |
| AIRM 0230: Propeller Systems | 4 |  |  | F |  |  |
|  Total | **18** |  |  |  |  |  |
| Semester Five |
| AIRM 0221: Reciprocating Engine Theory and Practice | 3 |  |  | S |  |  |
| AIRM 0222: Adv Reciprocating Engine Inspect & Mainten | 3 |  |  | S |  |  |
| AIRM 0227: Engine Fuel Metering Systems | 3 |  |  | S |  |  |
| AIRM 0228: Engine Ignition Systems | 4 |  |  | S |  |  |
| AIRM 0229: Engine Electrical and Instrument Systems | 4 |  |  | S |  |  |
|  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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| **2018-2019 Major Requirements** | **CR** | **GENERAL EDUCATION OBJECTIVES****\* Satisfy 1, 2, 3, 6 and 3 cr. from 4, 5, 7 or 8** | **0 Cr.****Min** |
| **MAJOR REQUIREMENTS** | **70** | 1. Written English (6 cr. min) ENGL 1101 (or equivalent) |  |
| AIRM 0100: Introduction to Aircraft and Aerodynamics | 1 |   |  |
| AIRM 0101: Mathematics | 3 | 2. Spoken English (3 cr. min) COMM 1101 |  |
| AIRM 0104: Materials and Processes | 5 | 3. Mathematics (3 cr. min)  |  |
| AIRM 0107: Forms and Regulations | 3 | 4. Humanities, Fine Arts, Foreign Lang. |
| AIRM 0108: Basic Electricity | 3 |  |  |
| AIRM 0109: Fluid Systems | 4 |  |  |
| AIRM 0110: Landing Gear Systems | 2 | 5. Natural Sciences **(1 Course including a lab; 4 cr. min)**  |
| AIRM 0111: Auxiliary Systems | 2 |  |  |
| AIRM 0112: Aircraft Electrical Systems  | 4 |  |  |
| AIRM 0113: Rigging and Inspections  | 3 | 6. Behavioral and Social Science **(1 course; 3 cr. min)** |  |
| AIRM 0114: Metallic Structures | 3 |  |
| AIRM 0115: Aircraft Instruments, Communications, and Navigation | 2 |  |  |
| AIRM 0116: Non-Metallic Structures | 4 | **One Course from EITHER Objective 7 OR 8** |  |
| AIRM 0221: Reciprocating Engine Theory and Practice | 3 | 7. Critical Thinking  |
| AIRM 0222: Advanced Reciprocating Engine Inspection and Practice | 3 | 8. Information Literacy  |  |
| AIRM 0223: Basic Turbine Engines | 4 | 9. Cultural Diversity  |
| AIRM 0224: Advanced Turbine Engines | 3 |  |
| AIRM 0225: Powerplant Lubrication Systems | 3 | General Education Elective to reach 15 cr. min.  |  |
| AIRM 0227: Engine Fuel Metering Systems | 3 |   |
| AIRM 0228: Engine Ignition Systems | 4 |  **Total GE** | **0** |
| AIRM 0229: Engine Electrical and Instrument Systems | 4 | Undergraduate Catalog and GE Objectives by [Catalog Year](https://www.isu.edu/advising/academic-support/general-education/)  |  |
| AIRM 0230: Propeller Systems | 4 |  |
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|  |  | **MAP Credit Summary** | **CR** |
|  |  | Major  | 70 |
|  |  | General Education  | 0 |
|  |  | Free Electives to reach 60 | 0 |
|  |  |  TOTAL | **70** |
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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