

**Catalog Year 2019-2020**

AAS, Unmanned Aerial Systems

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 1: ENGL 1101 English Composition or ENGL 1101P | 3 or 4 |  | GE |  | Appropriate Placement Score |  |
| GE Objective 3: Mathematical Ways of Knowing | 3 |  | GE |  |  |  |
| UAS 0100: Introduction to Unmanned Aerial Systems | 1 | C- |  | F | UAS major |  |
| UAS 0110: Applied Mathematics and Electronics for UAS | 3 | C- |  | F | UAS major |  |
| UAS 0115: Flight Theory | 3 | C- |  | F | UAS major |  |
| UAS 0120: Flight Laboratory I | 4 | C- |  | F | UAS major |  |
| Total | 17 |  |  |  |  |  |
| Semester Two | | | | | | |
| GE Objective 2: COMM 1101 Principles of Speech | 3 |  | GE |  |  |  |
| GE Objective 6: Scientific Ways of Knowing | 3 |  | GE |  |  |  |
| UAS 0150: Unmanned Systems Design | 2 | C- |  | S | UAS major |  |
| UAS 0155: Flight Control and Subsystems | 4 | C- |  | S | UAS major |  |
| UAS 0170: Flight Laboratory II | 4 | C- |  | S | UAS major |  |
| UAS 0282: introduction to Rapid Prototyping | 2 | C- |  |  | UAS major |  |
| Total | 18 |  |  |  |  |  |
| Semester Three | | | | | | |
| UAS 0200: Advanced Electronics and Payload for UAS | 4 | C- |  | F | UAS major; UAS 0110 or RCET 0156B |  |
| UAS 0212: Beginning Surveying, GPS and Geo-Referencing | 3 | C- |  | F | UAS major |  |
| UAS 0228: Principles of GIS | 3 | C- |  | F | UAS major; UAS 0110 or CET 0120 |  |
| UAS 0225: Flight Laboratory III | 5 | C- |  | F | UAS major; UAS 0170 |  |
| UAS 0250: Imagery Analysis | 3 | C- |  | F | UAS major |  |
|  |  |  |  |  |  |  |
| Total | 18 |  |  |  |  |  |
| Semester Four | | | | | | |
| GE Objective 5: PHYS 1101/L Elements of Physics and Lab | 4 |  | GE |  | MATH 1108 |  |
| UAS 0240: Basic Wiring and Avionics Installation | 5 | C- |  | S | UAS major; UAS 0200 |  |
| UAS 0255: Autopilot Theory | 3 | C- |  | S | UAS major; UAS 0200 or RCET 0154B | UAS 0270 |
| UAS 0270: Autopilot Laboratory | 5 | C- |  | S | UAS major; UAS 0200 or RCET 0156B | UAS 0255 |
| 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 GE Obj. 1, 2, 3, and partial in 5, 6** | | | | | | **16 Cr.**  **Min** |
| **Unmanned Aerial Systems, AAS - MAJOR REQUIREMENTS** | **54** | 1. Written English (6 cr. min) ENGL 1101 (or equivalent) | | | | | | 3 |
| UAS 0100: Introduction to Unmanned Aerial Systems | 1 |  | | | | | |  |
| UAS 0110: Applied Mathematics and Electronics for UAS | 3 | 2. Spoken English (3 cr. min) COMM 1101 | | | | | | 3 |
| UAS 0115: Flight Theory | 3 | 3. Mathematics (3 cr. min) MATH 1153 | | | | | | 3 |
| UAS 0120: Flight Laboratory I | 4 | 4. Humanities, Fine Arts, Foreign Lang. | | | | | | |
| UAS 0150: Unmanned Systems Design | 2 |  | | | | | |  |
| UAS 0155: Flight Control and Subsystems | 4 |  | | | | | |  |
| UAS 0170: Flight Laboratory II | 4 | 5. Natural Sciences **(1 course and Lab; 4 cr. min)** | | | | | | |
| UAS 0200: Advanced Electronics and Payload for UAS | 4 | PHYS 1101 Elements of Physics and Lab | | | | | | 4 |
| UAS 0212: Beginning Surveying, GPS and Geo-Referencing | 3 |  | | | | | |  |
| UAS 0225: Flight Laboratory III | 5 | 6. Behavioral and Social Science **(1 course; 3 cr. min)** | | | | | | |
| UAS 0228: Principles of GIS | 3 |  | | | | | | 3 |
| UAS 0240: Basic Wiring and Avionics Installation | 5 |  | | | | | |  |
| UAS 0250: Imagery Analysis | 3 | **One Course from EITHER Objective 7 OR 8** | | | | | | |
| UAS 0255: Autopilot Theory | 3 | 7. Critical Thinking | | | | | |  |
| UAS 0270: Autopilot Laboratory | 5 | 8. Information Literacy | | | | | |
| UAS 0282: introduction to Rapid Prototyping | 2 | 9. Cultural Diversity | | | | | | |
|  |  |  | | | | | |  |
|  |  | General Education Elective to reach 15 cr. min. | | | | | | |
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|  |  | **Total GE** | | | | | | **16** |
|  |  | 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 | | | | | 54 | |
|  |  | General Education | | | | | 16 | |
|  |  | Free Electives | | | | | 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 06/11/2019 | | | | | |
|  | | *Registrar:* |  | | | | | |
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Form Revised 1.24.2018