

# UNCREWED AIRCRAFT SYSTEMS CONCENTRATION

## Aviation, Bachelor of Science - Uncrewed Aircraft Systems Concentration Requirements

| Code  | Title   | Credits      |
|---|---|--------------|
| <b>GENERAL EDUCATION REQUIREMENTS - 34 Hours Required</b>   |   |              |
| Minimum of "C-" required  |   |              |
| <b>Fundamental Skills</b>   |   | <b>15</b>    |
| <b>Writing – 6 hrs.</b>   |   |              |
| ENGL 1150   | ENGLISH COMPOSITION I                                   |              |
| ENGL 1160   | COLLEGE RESEARCH AND INFORMATION LITERACY               |              |
| <b>Oral Communication – 3 hrs.</b>  |   |              |
| CMST 1110   | PUBLIC SPEAKING FUNDS                                   |              |
| or CMST 2120  | ARGUMENTATION AND DEBATE                                |              |
| <b>Quantitative Literacy – 3 hrs.</b>   |   |              |
| MATH 1120   | INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING |              |
| or MATH 1130  | QUANTITATIVE LITERACY                                   |              |
| or MATH 1140  | QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS     |              |
| or MATH 1300  | COLLEGE ALGEBRA WITH SUPPORT                            |              |
| <b>Data Literacy – 3 hrs.</b>   |   |              |
| Select one from the following:  |   |              |
| STAT 1100   | DATA LITERACY AND VISUALIZATION                         |              |
| STAT 1530   | ELEMENTARY STATISTICS                                   |              |
| Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course. |   |              |
| <b>Breadth of Knowledge</b>   |   | <b>13</b>    |
| Social Science – 3 hrs.   |   |              |
| Humanities – 3 hrs.   |   |              |
| Natural & Physical Science (must complete a lab) – 4 hrs.   |   |              |
| Arts – 3 hrs.   |   |              |
| <b>Individual and Social Responsibility</b>   |   | <b>6</b>     |
| Cultural Knowledge – 3 hrs.   |   |              |
| Civic Knowledge and Engagement – 3 hrs.   |   |              |
| <b>MAJOR REQUIREMENTS - 49-50 Hours Required</b>  |   |              |
| **Course will satisfy UNO's General Education requirement   |   |              |
| ^Course requires pre-requisite(s)   |   |              |
| <b>All of the following:</b>  |   | <b>49-50</b> |
| MATH 1300   | COLLEGE ALGEBRA WITH SUPPORT (**)                       |              |
| or MATH 1220  | COLLEGE ALGEBRA   |              |
| or MATH 1320  | COLLEGE ALGEBRA   |              |
| AVN 3060  | WRITING IN AVIATION (^)                                 |              |
| AVN 2510  | DIVERSITY IN AVIATION (** ^)                            |              |
| AVN 3600  | INTERNATIONAL AVIATION (^)                              |              |
| PHYS 1050   | INTRODUCTION TO PHYSICS (** ^)                          |              |
| ECON 2200   | PRINCIPLES OF ECONOMICS (MICRO) (** ^)                  |              |

|  |   |           |
|--|---|-----------|
| PA 3000  | APPLIED STATISTICS AND DATA PROCESSING IN PUBLIC SECTOR (^) |           |
| PSCI 1100  | INTRODUCTION TO AMERICAN NATIONAL GOVERNMENT (**)           |           |
| AVN 1000   | INTRODUCTION TO AVIATION AND AEROSPACE (** ^)               |           |
| AVN 1020   | PRIVATE PILOT THEORY  |           |
| AVN 1040   | HISTORY OF AVIATION AND AEROSPACE (**)                      |           |
| AVN 1160   | AVIATION SAFETY (^)   |           |
| AVN 2020   | AIRLINE OPERATIONS (^)                                      |           |
| AVN 2050   | INTRODUCTION TO AIRPORT ADMINISTRATION (^)                  |           |
| AVN 2750   | AVIATION METEOROLOGY (^)                                    |           |
| AVN 3150   | AVIATION LAW (^)  |           |
| <b>Unmanned Aircraft Systems Concentration -</b>         |   | <b>31</b> |
| AVN 1500   | INTRODUCTION TO UNMANNED AIRCRAFT SYSTEMS (^)               |           |
| GEOG 1090  | INTRODUCTION TO GEOSPATIAL SCIENCES (** ^)                  |           |
| AVN 2500   | UNMANNED AIRCRAFT SYSTEMS FLIGHT OPERATIONS (^)             |           |
| JMC 2320   | VIDEO FIELD PRODUCTION (^)                                  |           |
| AVN 3040   | HUMAN FACTORS IN AVIATION SAFETY (^)                        |           |
| AVN 3700   | TRANSPORTATION ANALYSIS (^)                                 |           |
| GEOG 4050  | GEOGRAPHIC INFORMATION SYSTEMS I (^)                        |           |
| GEOG 3530  | CARTOGRAPHY AND DATA VISUALIZATION                          |           |
| AVN 4500   | ADVANCED UNMANNED AIRCRAFT SYSTEMS PROCEDURES (^)           |           |
| ENTR 3710  | ENTREPRENEURIAL FOUNDATIONS (^)                             |           |
| AVN 4990   | AIR TRANSPORTATION (^)                                      |           |
| AVN 4200   | INTERNSHIP IN AVIATION (^)                                  |           |
| <b>ELECTIVES</b>   |   |           |
| Elective hours as required to reach a total of 120 hours |   |           |

## Aviation, Bachelor of Science - Uncrewed Aircraft Systems Concentration Four Year Plan

| Freshman       |   | Credits   |
|----------------|---|-----------|
| <b>Fall</b>    |   |           |
| ENGL 1150      | ENGLISH COMPOSITION I                     | 3         |
| MATH 1220      | COLLEGE ALGEBRA <sup>1</sup>              | 3         |
| AVN 1000       | INTRODUCTION TO AVIATION AND AEROSPACE    | 3         |
| AVN 1020       | PRIVATE PILOT THEORY                      | 3         |
| GEOG 1090      | INTRODUCTION TO GEOSPATIAL SCIENCES       | 4         |
| <b>Credits</b> |   | <b>16</b> |
| <b>Spring</b>  |   |           |
| AVN 1500       | INTRODUCTION TO UNMANNED AIRCRAFT SYSTEMS | 3         |
| AVN 1160       | AVIATION SAFETY                           | 3         |
| ENGL 1160      | COLLEGE RESEARCH AND INFORMATION LITERACY | 3         |
| CMST 1110      | PUBLIC SPEAKING FUNDS                     | 3         |

|                      |   |            |
|----------------------|---|------------|
| PSCI 1100            | INTRODUCTION TO AMERICAN NATIONAL GOVERNMENT            | 3          |
| <b>Credits</b>       |   | <b>15</b>  |
| <b>Sophomore</b>     |   |            |
| <b>Fall</b>          |   |            |
| AVN 2500             | UNMANNED AIRCRAFT SYSTEMS FLIGHT OPERATIONS             | 3          |
| JMC 2320             | VIDEO FIELD PRODUCTION                                  | 3          |
| AVN 1040             | HISTORY OF AVIATION AND AEROSPACE                       | 3          |
| AVN 2750             | AVIATION METEOROLOGY                                    | 3          |
| PHYS 1050            | INTRODUCTION TO PHYSICS                                 | 4          |
| <b>Credits</b>       |   | <b>16</b>  |
| <b>Spring</b>        |   |            |
| AVN 2020             | AIRLINE OPERATIONS                                      | 3          |
| ECON 2200            | PRINCIPLES OF ECONOMICS (MICRO)                         | 3          |
| AVN 3040             | HUMAN FACTORS IN AVIATION SAFETY                        | 3          |
| AVN 2050             | INTRODUCTION TO AIRPORT ADMINISTRATION                  | 3          |
| Humanities           |   | 3          |
| <b>Credits</b>       |   | <b>15</b>  |
| <b>Junior</b>        |   |            |
| <b>Fall</b>          |   |            |
| AVN 3060             | WRITING IN AVIATION                                     | 3          |
| PA 3000              | APPLIED STATISTICS AND DATA PROCESSING IN PUBLIC SECTOR | 3          |
| ENTR 3710            | ENTREPRENEURIAL FOUNDATIONS                             | 3          |
| GEOG 4050            | GEOGRAPHIC INFORMATION SYSTEMS I                        | 4          |
| Arts                 |   | 3          |
| <b>Credits</b>       |   | <b>16</b>  |
| <b>Spring</b>        |   |            |
| AVN 4500             | ADVANCED UNMANNED AIRCRAFT SYSTEMS PROCEDURES           | 3          |
| AVN 3150             | AVIATION LAW  | 3          |
| AVN 3600             | INTERNATIONAL AVIATION                                  | 3          |
| Cultural Knowledge   |   | 3          |
| Open Elective        |   | 3          |
| <b>Credits</b>       |   | <b>15</b>  |
| <b>Senior</b>        |   |            |
| <b>Fall</b>          |   |            |
| AVN 3700             | TRANSPORTATION ANALYSIS                                 | 3          |
| AVN 2510             | DIVERSITY IN AVIATION                                   | 3          |
| AVN 4200             | INTERNSHIP IN AVIATION                                  | 3          |
| Open Elective        |   | 3          |
| Open Elective        |   | 3          |
| <b>Credits</b>       |   | <b>15</b>  |
| <b>Spring</b>        |   |            |
| AVN 4990             | AIR TRANSPORTATION                                      | 3          |
| GEOG 3530            | CARTOGRAPHY AND DATA VISUALIZATION                      | 4.0        |
| Open Elective        |   | 3          |
| Open Elective        |   | 2          |
| <b>Credits</b>       |   | <b>12</b>  |
| <b>Total Credits</b> |   | <b>120</b> |

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

#### Additional Information About this Plan:

**University Degree Requirements:** The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

**Placement Exams:** For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

\*\*Transfer credit or placement exam scores may change suggested plan of study

<sup>1</sup> Math courses depend on the ACT subscore, students could need a lower level math or test out completely as well.