

# RENEWABLE ENERGY

## sUAS (Drones) 30-Hour Certificate

### General Education Required Courses 6 cr

|  |   |
|--|---|
| <i>Communication Requirement</i>             | 3 |
| CM101 English Composition I (3 cr) <b>or</b> |   |
| CM120 Survey of Technical Writing (3 cr)     |   |
| <i>Mathematics Requirement</i>               | 3 |
| MA104 Technical Math <b>or</b>               |   |
| MA110 Intermediate Algebra <b>or</b>         |   |
| Mathematics General Education Course         |   |

### Required sUAS Courses 18 cr

|  |   |
|--|---|
| UA110 sUAS Ground School                           | 3 |
| UA140 sUAS Applications                            | 3 |
| UA150 sUAS Personnel, Safety, & Crew Resource Mgmt | 3 |
| UA201 sUAS Command, Control, & Communications      | 3 |
| UA210 sUAS Systems & Conceptual Design             | 3 |
| WE240 GIS/GPS                                      | 3 |

### Elective Courses 6 cr

|   |   |
|---|---|
| AG255 Precision Ag Hardware                                   | 3 |
| AG256 Precision Ag Software                                   | 3 |
| AR129 Introduction to Digital Photography                     | 3 |
| CS140 Introduction to Robotics                                | 3 |
| CS141 Introduction to Additive Manufacturing<br>(3D Printing) | 3 |
| CS145 Introduction to CAD                                     | 3 |
| EC101 Introduction to Macroeconomics                          | 3 |
| MG102 Introduction to Entrepreneurship                        | 3 |
| UA100 Introduction to sUAS                                    | 3 |
| WE110 Electrical Theory                                       | 3 |
| WE250 Data Acquisition & Communications                       | 3 |
| WE280 Wind Energy Technology Internship                       | 4 |

