

### GUIDED PATHWAY

The following sequence is the suggested pathway to complete the degree in two years. This sequence is based on satisfaction of all basic skills requirements and prerequisites and presumes a fall start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your academic advisor for other options and to monitor your progress.

*Program Name: Unmanned Aircraft Systems, AS*

**Program Student Learning Outcomes (SLOs):**

1. Develop software applications using Object Oriented Programming languages (1, 3, 6)
2. Analyze timely concepts in computer science to enhance the design of software applications (3, 5, 6)
3. Integrate communication, critical thinking, mathematics and science to complete unmanned aircraft systems (1, 2, 3, 4, 5, 6)
4. Apply engineering design concepts to mechanical operations (3,6)

**Possible prerequisite**

Course—Asterisk (*) indicates required program courses	AGEC course?	Terms**	Credits
MAT 181 College Algebra (this course has pre-req of MAT 151)	Y	SP	3

**First Semester: Fall**

ENG 101*	Y A	F, SP, SU	3
CIS 120*		F, SP	3
MAT 221*	Y B	F only	4
CIS 110*		F, SP, SU	3
PHI 205	Y C	F only	3

**Second Semester: Spring**

PHY 115*	Y E	SP only	5
ENG 102*	Y A	F, SP, SU	3
BUS 206	Y D	F, SP	3
CIS 210*		SP only	3
PSY 101	Y D	F, SP, SU	3

**Third Semester: Fall**

CSC 110*		F only	4
EGR 102*		F only	3
PHY 116*	Y E	F only	5
GHY 212	Y F	F only	4

**Fourth Semester: Spring**

CSC 210*		SP only	4
CIS 270*		F, SP	3
CIS 208*		SP only	3
AST 101	Y F	F, SP	4
HUM 250	Y C	F, SP	3

**Key:**

SP= Spring

F= Fall

SU= Summer

1. Aesthetic Sensibilities: An awareness of creative expression in the world around us.
2. Communication Skills: The ability to effectively convey meaning through various media on both personal and professional levels.
3. Critical Thinking Skills and Problem-Solving: The ability to analyze data and arrive at logical and defensible conclusions.
4. Cultural Diversity and Global Awareness: An appreciation of relationships and differences in values, customs, and norms of diverse global communities.
5. Techniques of Inquiry: Use of standardized methodological framework to collect, analyze, interpret, and present findings.
6. Technological Competency: A proficiency in evolving technology to compete and flourish in society.

**Total credits**

66

**Optional Courses:**

Student may substitute two courses from Section C (AGEC-S) in place of PHI 205 and HUM 250

Student may substitute two courses from Section D (AGEC-S) in place of PSY 101 and BUS 206

Student may substitute two courses from Section F (AGEC-S) in place of GHY 212 and AST 101

\*\*terms not guaranteed