

B.S. in Uncrewed Aircraft Systems

General Education Requirements

For a full description of Embry-Riddle General Education guidelines, please see the General Education section of this catalog. These minimum requirements are applicable to all degree programs.

Communication Theory and Skills (COM 122 and COM 219 and COM 221)	9
Lower-Level Humanities	3
Lower-Level Social Science (PSY 101 required)	3
Lower or Upper-Level Humanities or Social Sciences	3
Upper-Level Humanities/Social Science	3
Computer Science (CS 118 or CYB 235)	3
Mathematics (MA 111 and MA 112)	6
Physical Science (PS 113, PS 117, PS 113L or PS 117L)	7
Total Credits	37

Aeronautical Knowledge

AS 121	Private Pilot Operations	5
AS 220	Uncrewed Aircraft Systems	3
AS 309	Aerodynamics	3
UA 100	Remote Pilot Operations	2
Total Credits		13

Geospatial Data Acquisition and Processing

AS 241	UAS Systems Architecture and Integration	3
or AS 235	Uncrewed Aircraft Systems Operation and Cross-Country Data Entry	
AS 368	UAS Sensing Systems	3
AS 390	Application of UAS Technology	3
GEO 210	Introduction to Geographic Information Systems	3
GEO 310	Advanced Geographic Information Systems	3
UA 201	Mapping Applications and Data Collection with UAS	1
Total Credits		16

Operations and Leadership

AS 222	Uncrewed Aircraft Systems Security	3
AS 315	UAS Robotics	3
AS 322	Operational and Industrial Aspects of UAS	3
or AS 319	UAS Law	
AS 323	Crew Resource Management for UAS	3
AS 423	UAS Infrastructure Development and Modeling	3
AS 473	Operational Applications in Uncrewed Aircraft Systems	3
Total Credits		18

Technical Skills Development

AS 416	UAS Field Service and Sustainment	3
AS 437	Concepts in Advanced Air Mobility	3
UA 301	Advanced UAS Flight Operations	1
UA 401	UAS Mission Application	1
Total Credits		8

Program Support

EGR 120	Graphical Communications	3
or EGR 115	Introduction to Computing for Engineers	
AT 202	Introduction to Air Traffic Management	3
HF 300	Human Factors I: Principles and Fundamentals	3
Total Credits		9

Service Learning

UA 390	UAS Practicum I	3
UA 490	UAS Practicum II	3
Total Credits		6

Open Electives

Upper Level Open Electives - 300-400	6
Open Electives - Any Level	9
Total Credits	15
Total Credit Hours	122

Note: Refer to Undergraduate Academic Regulations and Procedures section for credit for flight training at other institutions.

After matriculation to Embry-Riddle, all flight training must be completed on-campus to earn the Uncrewed Aircraft Systems degree.