## **B.S.** in Engineering **Technology**

## **DEGREE REQUIREMENTS General Education**

## **General Education**

Embry-Riddle courses in the general education categories of Communication Theory and Skills, and Humanities and Social Sciences may be chosen from those listed below, assuming prerequisites are met. Courses from other institutions are acceptable if they fall into these broad categories and are at the level specified.

Communicatio	n Theory and Skills	
ENGL 123	English Composition	3
English/Speech	electives	6
Mathematics		
MATH 241	Calculus and Analytical Geometry I	4
MATH 242	Calculus and Analytical Geometry II	4
•	nce / Information	
ENGR 115	Introduction to Computing for Engineers	3
Physical and L		
CHEM 110	General Chemistry I	3
CHEM 110L	General Chemistry I Laboratory	1
PHYS 150	Physics I for Engineers	3
PHYS 160	Physics II for Engineers	3
Humanities		
HUMN 330	Values and Ethics	3
Humanities lower	er level elective	3
Social Science	s	
ECON 210	Microeconomics	3
ECON 211	Macroeconomics	3
General Electiv	res	
General Open E	Electives	9
<b>Total Credits</b>		51
Core/Major		
Business		
	Business Statistics	3
Business		3 3
Business STAT 222	Business Statistics	
Business STAT 222 Total Credits	Business Statistics	
Business STAT 222 Total Credits Leadership and	Business Statistics	3
Business STAT 222 Total Credits Leadership and MGMT 201	Business Statistics  d Management  Principles of Management	<b>3</b>
Business STAT 222 Total Credits Leadership and MGMT 201 MGMT 203	Business Statistics  d Management  Principles of Management  Management for Aeronautical Science	<b>3</b> 3
Business STAT 222 Total Credits Leadership and MGMT 201 MGMT 203 Total Credits	Business Statistics  d Management  Principles of Management  Management for Aeronautical Science	<b>3</b> 3
Business STAT 222 Total Credits Leadership and MGMT 201 MGMT 203 Total Credits Technical Core	Business Statistics  d Management  Principles of Management  Management for Aeronautical Science	3 3 6
Business STAT 222 Total Credits Leadership and MGMT 201 MGMT 203 Total Credits Technical Core ENGR 101	Business Statistics  d Management Principles of Management Management for Aeronautical Science	3 3 6
Business STAT 222 Total Credits Leadership and MGMT 201 MGMT 203 Total Credits Technical Core ENGR 101 ENGR 120	Business Statistics  d Management Principles of Management Management for Aeronautical Science  Introduction to Engineering Graphical Communications	3 3 3 6
Business STAT 222 Total Credits  Leadership and MGMT 201 MGMT 203 Total Credits  Technical Core ENGR 101 ENGR 120 ESCI 201	Business Statistics  d Management Principles of Management Management for Aeronautical Science  Introduction to Engineering Graphical Communications Statics	3 3 3 6
Business STAT 222 Total Credits  Leadership and MGMT 201 MGMT 203  Total Credits  Technical Core ENGR 101 ENGR 120 ESCI 201 CESC 220	Business Statistics  d Management Principles of Management Management for Aeronautical Science  Introduction to Engineering Graphical Communications Statics Digital Circuit Design	3 3 3 6
Business STAT 222 Total Credits  Leadership and MGMT 201 MGMT 203 Total Credits  Technical Core ENGR 101 ENGR 120 ESCI 201 CESC 220 CESC 222	Business Statistics  d Management Principles of Management Management for Aeronautical Science  Introduction to Engineering Graphical Communications Statics Digital Circuit Design Digital Circuit Design Laboratory	3 3 3 6 3 3 3 3 1
Business STAT 222 Total Credits  Leadership and MGMT 201 MGMT 203 Total Credits  Technical Core ENGR 101 ENGR 120 ESCI 201 CESC 220 CESC 222 ESCI 204	Business Statistics  d Management Principles of Management Management for Aeronautical Science  Introduction to Engineering Graphical Communications Statics Digital Circuit Design Digital Circuit Design Laboratory Dynamics	3 3 6 3 3 3 3 1 3
Business STAT 222 Total Credits  Leadership and MGMT 201 MGMT 203 Total Credits  Technical Core ENGR 101 ENGR 120 ESCI 201 CESC 220 CESC 222 ESCI 204 ESCI 202	Business Statistics  d Management Principles of Management Management for Aeronautical Science  Introduction to Engineering Graphical Communications Statics Digital Circuit Design Digital Circuit Design Laboratory Dynamics Solid Mechanics	3 3 6 3 3 3 3 1 1 3 3
Business STAT 222 Total Credits  Leadership and MGMT 201 MGMT 203 Total Credits  Technical Core ENGR 101 ENGR 120 ESCI 201 CESC 220 CESC 222 ESCI 204 ESCI 202 ESCI 206	Business Statistics  d Management Principles of Management Management for Aeronautical Science  Introduction to Engineering Graphical Communications Statics Digital Circuit Design Digital Circuit Design Laboratory Dynamics Solid Mechanics Fluid Mechanics	3 3 6 3 3 3 3 1 3 3 3
Business STAT 222 Total Credits  Leadership and MGMT 201 MGMT 203 Total Credits  Technical Core ENGR 101 ENGR 120 ESCI 201 CESC 220 CESC 222 ESCI 204 ESCI 202 ESCI 206 RSCH 202	Business Statistics  d Management Principles of Management Management for Aeronautical Science  Introduction to Engineering Graphical Communications Statics Digital Circuit Design Digital Circuit Design Laboratory Dynamics Solid Mechanics Fluid Mechanics Introduction to Research Methods	3 3 6 3 3 3 3 1 3 3 3 3 3

	B.S. in Engineering Technolo	<i>gy</i> 1
ETEC 316	Circuits Laboratory for Engineering Technology	1
ETEC 410	Thermodynamics for Engineering Technology	3
ETEC 415	Control Systems	3
ETEC 490	Engineering Technology Capstone I	3
ETEC 491	Engineering Technology Capstone II	3
Total Credits		44
Electives/C	concentration	
Concentrations	3	18
ū	entration areas are available to BSET students. Proose at least 3 courses each from two reas.	
Total Degree R	equirements	122
Concentrat	ions:	
Aeronautic	al Science	
Aeronautical S	cience Concentration	
ASCI 309	Aerodynamics	3
AMNT 429	Advanced Technologies in Design and Production of Aircraft Structures and Systems	3
ETEC 409	Applied Aeronautics	3
Aviation Sa	*	
	Concentration	
BSAS 320	Human Factors in Aviation Safety	3
BSAS 330	Aircraft Accident Investigation	3
BSAS 409	Aviation Safety	3
-	Operations and Safety	
	rations and Safety Concentration	
ASCI 317	Rotorcraft	3
ASCI 378	Helicopter Flight Environments	3
ASCI 388	Helicopter Flight Planning	3
Uncrewed a	and Autonomous Systems	
Uncrewed and	Autonomous Systems Concentration	
UNSY 315	Uncrewed Aircraft Systems and Operations	3
UNSY 318	Uncrewed Aircraft Systems Robotics	3
UNSY 410	Uncrewed Systems Sensing Technology	3
Logistics I	Management	
•	gement Concentration	
LGMT 331	Transportation Principles	3
LGMT 410	Management of Air Cargo	3
LGMT 411	Logistics Management for Aviation/Aerospace	3
Manageme	nt Information Systems	
Management In	formation Systems Concentration	
MMIS 221	Introduction to Management Information Systems	3
MMIS 392	Database Management	3
MMIS 494	Aviation Information Systems	3
Occupation	nal Safety & Health	

Occupational Safety & Health Concentration

Health

Fundamentals of Occupational Safety and

SFTY 311

## 2 B.S. in Engineering Technology

SFTY 321	Ergonomics	3		
SFTY 355	Industrial Hygiene and Toxicology	3		
Project Management				
Project Management Concentration				
PMGT 391	Project Planning 1	3		
PMGT 394	Project Planning 2	3		
PMGT 400	Project Risk and Control	3		
Security and Intelligence				
Security and In	telligence Concentration			
SCTY 315	Studies in Intelligence I	3		
SCTY 385	Intelligence Collection and Analysis	3		
SCTY 488	National Security Issues and Terrorism	3		