

Academic Programs at the Daytona Beach Campus

Safety Science

Bachelor of Science

The Applied Aviation Sciences Department offers a Bachelor of Science degree in Safety Science that is based on the needs of the marketplace. It combines a solid core designed to meet the Aviation Accreditation Board International (AABI) standards and the University's General Education requirements. With a complete offering of Safety Science courses through two areas of concentration (AOCs), students can prepare to work in the aerospace industry as well as in non-aero-space industries.

The Safety Science degree is designed for students interested in obtaining a strong safety foundation. The goal of the degree is to produce graduates who are skilled in providing safety expertise in a variety of aviation, aerospace, and other occupational settings. This program will produce safety professionals who are skilled in providing safety management expertise and who can provide technical guidance in compliance issues involving FAA, EPA, OSHA, DOT, and state health, hygiene, and workplace standards.

Degree Requirements

The Bachelor of Science degree in Safety Science requires successful completion of a minimum of 120 credit hours and is normally completed in eight semesters.

Students are required to complete 36 hours of General Education courses as well as 46 hours of a Safety Science core curriculum. The Transportation AOC and Occupational Safety AOC each require 24 hours of AOC related safety courses with the final 14 hours

available as open electives. There are numerous minor fields of study for the student to choose from in order to meet specific desires.

Students enrolled in the Air Force, Army, or Naval ROTC programs may substitute AF, MY, or NSC courses for open elective courses.

	Hours
General Education	36
Safety Science Core	46
Area of Concentration	
(Air Transportation/Occupational)	24/24
Open Electives	
(Air Transportation/Occupational)	14/14
TOTAL DEGREE CREDITS	120

General Education

Course	Title	Credits
CS	Computer Science Elective	3
EC 200	An Economic Survey	3
HU	Humanities (HU 140-146)	3
COM	Communications Skills (COM 122, 219, 221)	9
HU/SS	Upper-Level Elective	3
MA	Math Sequence (MA 111, 112)	6
PS	Physics Sequence (PS 103/PS 104) (one laboratory required)	6
PSY 101	Introduction to Psychology	3
Total Credits		36

Safety Science Core

Course	Title	Credits
UNIV 101	College Success	1
AS 120	Principles of Aeronautical Science	3
AT 200	Air Traffic Management I	3
BA 201	Principles of Management	3
HF 300	Human Factors I: Principles & Fundamentals	3
MA 222	Business Statistics	3
PS 101	Basic Chemistry	3
SF 201	Introduction to Health, Occupational, and Transportation Safety	3

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SF 315	Environmental Compliance and Safety...	3
SF 345	Safety Program Management	3
SF 355	Industrial Hygiene and Toxicology	3
SF 365	Fire Protection	3
SF 410	Design of Engineering Hazard Controls	3
SF 445	System Safety in Aviation	3
SF 462	Health, Safety, and Aviation Law	3
WX 201	Survey of Meteorology	3

Total Credits 46

Transportation Safety (Air) Area of Concentration

Course	Title	Credits
AS 309	Aerodynamics	3
AS 310	Aircraft Performance -OR-	
SF 350	Air Crash and Emergency Management	3
AS 356	Aircraft Systems and Components	3
SF 320	Human Factors in Aviation	3
SF 330	Aircraft Accident Investigation	3
SF 335	Mechanical and Structural Factors in Aviation	3
SF 375	Propulsion Plant Investigation	3
SF 435	Aircraft Crash Survival Analysis and Design	3
	Open Electives	14

Total Credits 38

TOTAL DEGREE CREDITS 120

Suggested Program of Study

Students should be aware that several courses in each academic year may have prerequisites and/or corequisites. Please check the course descriptions at the back of this catalog before registering for classes to ensure requisite sequencing.

FRESHMAN YEAR

Course	Title	Credits
AAS 101	Applied Aviation Science College Success Seminar	1
AS 120	Principles of Aeronautical Science	3
COM122	English Composition and Literature	3
HU 14X	Lower-Level Humanities	3
IT 109	Introduction to Computers and Applications	3
MA 111	College Math for Aviation I	3
MA 112	College Math for Aviation II	3

PS 101	Basic Chemistry	3
PS 103	Technical Physics I	3
PSY 101	Introduction to Psychology	3
SF 201	Introduction to Health, Occupational, and Transportation Safety	3

Total Credits 31

SOPHOMORE YEAR

Course	Title	Credits
AT 300	Air Traffic Management I	3
BA 201	Principles of Management	3
COM219	Speech	3
COM221	Technical Report Writing	3
EC 200	An Economic Survey	3
HF 201	Introduction to Human Factors	3
MA 222	Business Statistics	3
PS 104	Technical Physics II	3
SF 315	Environmental Compliance and Safety	3
WX 201	Survey of Meteorology	3

Total Credits 30

JUNIOR YEAR

Course	Title	Credits
AS 309	Aerodynamics	3
AS 356	Aircraft Systems and Components	3
SF 320	Human Factors in Aviation	3
SF 330	Aircraft Accident Investigation	3
SF 345	Safety Program Management	3
SF 355	Industry Hygiene and Toxicology	3
SF 365	Fire Protection	3
	Open Electives	9

Total Credits 30

SENIOR YEAR

Course	Title	Credits
AS 310	Aircraft Performance -OR-	
SF 350	Aircraft Crash and Emergency Management	3
HU/SS	Upper-Level Elective*	3
SF 335	Mechanical and Structural Factors in Aviation	3
SF 375	Propulsion Plant Investigation	3
SF 410	Design of Engineering Hazard Controls	3
SF 435	Aircraft Crash Survival Analysis and Design	3
SF 445	System Safety in Aviation	3
SF 462	Health, Safety, and Aviation Law	3
	Open Electives	5

Total Credits 29

*The recommended elective is HU 330 Values and Ethics.

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Occupational Safety Area of Concentration

Course	Title	Credits
BA 420	Management of Production and Operations	3
PS 107	Elements of Biological Science	3
SF 311	Industrial Security - OR-	
HS 302	Fundamentals of Occupational Security . . .	3
SF 316	Workers' Compensation and Risk Management	3
SF 380	Internship I -OR-	
SF 350	Aircraft Crash and Emergency Management	3
SF 405	Applications in Industrial Hygiene	3
SF 440	Design of Engineering Hazard Controls II	3
SF 450	Internship II -OR-	
SF 330	Aircraft Accident Investigation	3
	Open Electives	14
Total Credits		38
TOTAL DEGREE CREDITS		120

Suggested Program of Study

Students should be aware that several courses in each academic year may have prerequisites and/or corequisites. Please check the course descriptions at the back of this catalog before registering for classes to ensure requisite sequencing.

FRESHMAN YEAR

Course	Title	Credits
AAS 101	Applied Aviation Science College Success Seminar	1
AS 120	Principles of Aeronautical Science	3
COM122	English Composition and Literature*	3
HU 14X	Lower-Level Humanities*	3
IT 109	Introduction to Computers and Applications	3
MA 111	College Math for Aviation I	3
MA 112	College Math for Aviation II	3
PS 101	Basic Chemistry	3
PS 103	Technical Physics I	3
PSY 101	Introduction to Psychology	3
SF 201	Introduction to Health, Occupational, and Transportation Safety	3
Total Credits		31

SOPHOMORE YEAR

Course	Title	Credits
AT 300	Air Traffic Management I	3
BA 201	Principles of Management	3
COM219	Speech	3
COM221	Technical Report Writing	3
EC 200	An Economic Survey	3
MA 222	Business Statistics	3
PS 104	Technical Physics II	3
PS 107	Elements of Biological Science	3
SF 315	Environmental Compliance and Safety . . .	3
WX 201	Survey of Meteorology	3
Total Credits		30

JUNIOR YEAR

Course	Title	Credits
HF 201	Introduction to Human Factors	3
SF 311	Industrial Security -OR-	
HS 302	Fundamentals of Occupational Security . . .	3
SF 316	Workers' Compensation, Insurance, and Risk Management	3
SF 345	Safety Program Management	3
SF 355	Industrial Hygiene and Toxicology	3
SF 365	Fire Protection	3
SF 380	Internship I -OR-	
SF 350	Aircraft Crash and Emergency Management	3
	Open Electives	9
Total Credits		30

SENIOR YEAR

Course	Title	Credits
BA 420	Management of Production and Operations	3
HU/SS	Upper-Level Elective*	3
SF 405	Applications in Industrial Hygiene	3
SF 410	Design and Engineering Hazard Controls	3
SF 440	Design and Engineering Hazard Controls II	3
SF 445	System Safety in Aviation	3
SF 450	Internship II -OR-	
SF 330	Aircraft Accident Investigation	3
SF 462	Health, Safety, and Aviation Law	3
	Open Electives	5
Total Credits		29

** The recommended elective is HU 330 Values and Ethics.