EMBRY-RIDDLE AERONAUTICAL UNIVERSITY



CONDENSED UNDERGRADUATE

CATALOG

DAYTONA BEACH, FLORIDA



ACADEMIC PROGRAMS

Embry-Riddle Aeronautical University offers students opportunities to pursue academic programs in a wide variety of aviation and aerospace fields. Each degree program includes both general education and academic specialization, the two components complementing each other. Detailed information about specific degree programs begins on page 84 of this section of the catalog. Minor courses of study are described on page 128.

The University currently offers the following associate's, bachelor's, and master's degrees programs at the Daytona Beach campus (D), the Prescott campus (P), Extended Campus

locations (E), and Center for Distance Learning (C).

Aeronautical Science (Flight)

A. in Airway Science—D

B.S. in Aeronautical Science—D, P

Master of Aeronautical Science—D, E, C

Aerospace Studies

B.S. in Aerospace Studies-D, P

Business Administration

A.S. in Aviation Business Administration—D, E, C
B.S. in Aviation Business Administration—D, P, E
B.S. in Aviation Maintenance Management
(Maintenance)—D, P, E
B.S. in Aviation Maintenance Management
(Avionics)—D
B.S. in Aviation Management—D, P, E
B.S. in Management of Technical

Operations—D, P, E, C
Master of Business Administration in
Aviation—D, E
Master of Science in Technical Management—E

Computer Science

B.S. in Computer Engineering—D, P B.S. in Computer Science—D, P Master of Software Engineering—D

Engineering

B.S. in Aerospace Engineering—D, P B.S. in Civil Engineering—D B.S. in Electrical Engineering—P B.S. in Engineering Physics—D Master of Science in Aerospace Engineering—D Master of Aerospace Engineering—D

Engineering Technology

B.S. in Aircraft Engineering Technology—D B.S. in Avionics Engineering Technology—D A.S. in Avionics Technology—D

Maintenance

A. in Aviation Maintenance Technology—D
A.S. in Aircraft Maintenance—D, E
B.S. in Aviation Technology
(Maintenance/Avionics)—D
B.S. in Aviation Technology
(Maintenance/Flight)—D
A.S. in Avionics Technology—D
B.S. in Aviation Technology
(Avionics/Flight)—D

Professional Aeronautics

(Non-Traditional Students)
A.S. in Professional Aeronautics - D, E, C
B.S. in Professional Aeronautics - D, P, E, C

Department of Human Factors & Systems

B.S. in Applied Experimental Psychology/Human Factors—D

Embry-Riddle Aeronautical University reserves the right to terminate or modify program requirements and content, as well as the sequence of program offerings from term to term, for educational, financial, or other reasons that it determines are sufficient to warrant such action.

Basic Skills Requirement

Embry-Riddle Aeronautical University recognizes the importance of communications and quantitative skills in all areas of aviation. Successful pilots, airport managers, aviation maintenance technicians, and other aviation professionals must possess these skills to perform their jobs effectively. Embry-Riddle, therefore, requires all students, including transfer students, to demonstrate proficiency in writing, reading, and mathematics before they are permitted to complete registration during their first term at the University. Proficiency may be demonstrated by passing basic skills placement tests, by earning qualifying scores on SAT/ACT tests, or by transferring credit for college-level English and mathematics courses.

If they cannot demonstrate proficiency in these basic skills, students must enroll in one or more of the following courses: the reading and study skills course (HU 017) helps students develop the reading, critical thinking, and listening skills necessary for effective communications; students increase writing, reading, and critical thinking skills in developmental English (HU 006), a course that emphasizes the interactive nature of these activities; quantitative skills courses (MA 005, MA 006) help students prepare for introductory mathematics courses required in the various degree programs.

Students whose primary language is not English are required to demonstrate advanced English proficiency by achieving a satisfactory score on a placement test. Students-dents unable to demonstrate such proficiency must enroll in appropriate basic skills courses in their first term at the University. These courses may include HU 003, HU 004, and HU 013, in addition to the reading and writing courses described above.

Although basic skills courses are computed into the student's term grade point average

(GPA) and cumulative grade point average (CGPA), credits earned in basic skills courses do not apply to minimum degree requirements in any degree program.

General Education

INTRODUCTION

Recognizing its general and special missions in education, Embry-Riddle Aeronautical University embraces a general education program. This course of study ensures that students possess the attributes expected of all university graduates. Encouraging intellectual self-reliance and ability, the general education program enables students, regardless of their degree program, to understand the significance of acquiring a broad range of knowledge.

Throughout the general education program, students gain and enhance competence in written and oral communication. They practice reasoning and critical thinking skills and demonstrate computer proficiency. As students engage in this course of study, they familiarize themselves with and investigate ideas and methodologies from several disciplines. These include the arts and humanities, the social sciences, and the natural sciences and mathematics. The program also helps students recognize interrelationships among the disciplines.

Promoting the appreciation of varied perspectives, the general education program provides intellectual stimulation, ensuring that students are broadly educated. This course of study empowers students to make informed value judgments, to expand their knowledge and understanding of themselves, and to lead meaningful, responsible, and satisfying lives as individuals, professionals, and concerned members of their society and the world.

CIENERAL **EDUCATION REQUIREMENTS**

Embry-Riddle Aeronautical University's general education program encourages effective learning and provides a coherent base for students to pursue their academic specializations. In specific support of the goals of general education, candidates for bachelor's degrees must complete course work or demonstrate competency in the following areas. The faculty certify all course work accepted for general education credit as advancing general education objectives. They additionally establish methods for students to demonstrate competency within these areas of study. Since certain degree programs require particular courses in the general education program, please refer to the degree requirements section of the catalog before selecting general education courses.

Communication Theory and Skills 9 hours

In order to lead meaningful and responsible lives in complex societies, students produce, evaluate, articulate, and interpret information and meanings in oral and written communications.

II. Mathematics 6 hours

In order to develop quantitative reasoning skills and to use and understand the language of science and technology, students attain mathematical proficiency. One course must have college algebra as a prerequisite.

III. Computer Science 3 hours

In order to use computers and to understand and evaluate their significance in the solution of problems, students study the concepts, techniques, and tools of computing.

IV. Physical and Life Sciences 6 hours

In order to appreciate current understandings of the natural world, students study the concepts and methods of the physical and life sciences, applying the techniques of scientific inquiry to problem-solving. All students participate in a laboratory experience.

V. Humanities 3 - 6 hours lower level

*3 hours 300-400 level

In order to participate in the complexity of human experiences that arise in a framework of historical and social contexts, students are exposed to the humanities. Such areas of studies may include cultural, aesthetic, philosophical, and spiritual dimensions of the human condition.

VI. Social Sciences

Courses

3 - 6 hours lower level

*3 hours 300-400 level

In order to understand interrelationships between the individual and society and connections between historical memory and the future, students examine the social sciences, including history, economics, psychology, or sociology.

* In order to experience advanced studies in either the humanities or social sciences, students must choose at least one upper level elective in the Humanities or Social Sciences.

General Education Requirements 36 Hours total Credits

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TOTAL 36

Aeronautical Science Program (Professional Pilot)

Bachelor of Science

Airline Pilot Corporate Pilot Aviation Studies

Associate in Airway Science

DAYTONA BEACH

DEPARTMENT CHAIRMAN: Michael E. Wiggins

Associate Chairman: P. Rounseville

PROGRAM COORDINATOR: P. Rounseville

Aeronautical Science

Bachelor of Science

Combining in-flight training with rigorous academic study, Embry-Riddle's Aeronautical Science degree program prepares the graduate for a career as an airline, military, or corporate pilot. Foundation skills in mathematics, physics, communications, and aeronautics, including FAA certification as an instrument-rated commercial pilot, are attained during the first two years of the program. The last two years include extensive professional-level aeronautical science and flight courses that prepare the graduate for a career as a professional pilot, including airline flight crew operations in multi-engine jet transport aircraft.

All flight training at Embry-Riddle uses latemodel, fully equipped training aircraft. Aircraft type and flight configuration are selected to fit the given training location and environment.

Mockups, procedures trainers, part-task trainers, flight-training devices and simulators give the student a safe, flexible, and cost-effective training environment. As with aircraft types, the controlled-environment training configuration is suited to the location and training environment.

EXTENDED CAMPUS

CHAIRMAN: Paul Bankit

Embry-Riddle flight training uses the "Gemini-Flight" concept, whereby two students fly together on dual instructional flights. One student flies the aircraft and the other student participates from the rear seat while the instructor conducts the lesson. The concept increases and reinforces the learning experience of both students without additional expense to the students.

Flight training may be taken as an integral part of the Aeronautical Science degree program, as an area of concentration in other selected degree programs, or as elective credit on a space-available basis in most degree programs. The student is cautioned to investigate the applicability of specific courses to specific degree programs before making the commitment and investment.

The flight training program operates under all applicable FAA rules, regulations, and requirements. The student will be responsible for adhering to all rules, regulations, and procedures contained in the local campus bulletin and flight operations manual. The University and FAA rules and regulations are included in this reference.

FLIGHT COURSE SCHEDULING

All flight training courses may begin or end at any time during the academic year and may not coincide with the beginning or ending dates of the published semester schedule. Students should be prepared to continue training into the following semester if the start date or flight course progress does not allow completion prior to the end of the semester.

Flight courses require a 5-6 hour commitment of a student's daily schedule. This includes the class and flight lab section of the course but does not include preparation and study time. Students are cautioned not to overload their schedule when taking a flight course.

See the Daytona Beach campus Academic Regulations and Procedures chapter of this catalog for additional information about University policies on flight courses. The ERAU Flight Operations Manual also contains information concerning flight line policies and procedures.

DEGREE REQUIREMENTS

The Bachelor of Science degree in Aeronautical Science may be attained in eight semesters. To earn the degree, successful completion of a minimum of 120 credit hours is required. The purpose of the Aeronautical Science degree program is to prepare the graduate for a productive career as a professional pilot and responsible citizenship in support of the aviation and aerospace industries. Upon completion of the curriculum, the student will possess a minimum of an FAA Commercial Pilot Certificate with an instrument rating. Advanced flight training, up to and including entry-level airline training, is provided.

Students may choose one of three possible areas of concentration (AOC's): Airline Pilot, Corporate Pilot, or Aviation Studies. All

students must complete the general education and Aeronautical Science core requirements. During their junior year, students should declare one of the AOC's. The student then completes the required credits that make up the selected AOC.

BACHELOR OF SCIENCE DEGREE IN AERONAUTICAL SCIENCE

	Hours
GENERAL EDUCATION	39
AERONAUTICAL SCIENCE	43
AREA OF CONCENTRATION	38
TOTAL DEGREE CREDITS	120

Students should be aware that several courses in each academic year may have prerequisites and/or co-requisites. Check the course descriptions at the back of this catalog before registering for classes to assure requisite sequencing.

The Aeronautical Science Degree is an FAA-approved program.

GENERAL EDUCATION

Course	Title	Credits
	Communication Theory and Skills*	9
	Lower Level Humanities*	3
	Lower Level Social Science* Upper Level Humanities or	6
	Social Sciences*	3
	Computer Science Elective	3
MA 111	College Mathematics for Aviation I	- 3
MA 112	College Mathematics for Aviation II	3
PS 103	Technical Physics I	3
PS 104	Technical Physics II	3
	Management Elective*	3
Total Cr	edits	39

AFRONAUTICAL SCIENCE CORE

Comm	ercial Flight Certification	
Course	Title	Credits
AS 130	Aeronautics I	4
AS 131	Aeronautics I Flight Lab	2
AS 230	Aeronautics II	3
AS 231	Aeronautics II Flight Lab	2
AS 270	Aeronautics III	3
AS 271	Aeronautics III Flight Lab	1
Total Cr	edits	15

Course	Title	Credits
AS 201	Meteorology I	3
AS 309	Aerodynamics	3
AS 310	Aircraft Performance	3
AS 311	Aircraft Engines-Turbine	3
AS 352	Meteorology II	3
AS 356	Systems and Components	3
AS 357	Flight Physiology	3
AS 380	Pilot Career Planning and Interviewing	
	Techniques	1
AS 408	Flight Safety	3
AS 420	Flight Technique Analysis	3
Total Cr	edits	28

AIRLINE PILOT AREA OF CONCENTRATION

Course	Title	Credits
AS 320	Commuter Aviation OR	
AS 402	Airline Pilot Operations OR	
AS 410	Airline Dispatch Operations	3
AS 330	Aeronautics IV	3
AS 340	Instructional Design in Aviation OR	
AS 417	Flight Training Methods and	
	Curriculum Analysis	3
AS 370	Advanced Multi-Engine Instrument	
	Flight	1
AS 385	Crew Resource Management	2
AS 411	Jet Transport Systems	3
AS 430	Turbo-prop Techniques and Crew	121
LEUM:	Procedures	2
AS 440	Crew Resource Management Skills	1
AS 452	Electronic Navigation and Flight Contr	
AS 460	International Flight Operations	3
AS 470	Airline Flight Crew Techniques	
	and Procedures	2
	Open Electives	12
Total Cr	redits	38
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CORPORATE PILOT AREA OF CONCENTRATION

Course	Title	Credits
AS 330	Aeronautics IV	3
AS 340	Instructional Design in Aviation OR	
AS 417	Flight Training Methods and	
	Curriculum Analysis	3
AS 370	Advanced Multi-engine	
	Instrument Flight	1
AS 385	Crew Resource Management	2
AS 412	Corporate Business Aviation	3
AS 430	Turboprop Techniques and	

	Crew Procedures	2
AS 440	Crew Resource Management Skills	1
AS 453	High Performance Aircraft	
	Flight Crew Techniques and Procedures	2
AS 452	Electronic Navigation and	
	Flight Control Systems	3
AS 460	International Flight Operations	3
	Minor in Business Administration/	
	Open Electives	15
Total Cr	edits	38

AVIATION STUDIES AREA OF CONCENTRATION

Required courses necessary to complete at least one minor and open electives sufficient to meet the requirement of 40 credits in upper division courses.

Or	riation Legislation ne Minor pen Electives	3 15-18 17-20
Total Credit	15	38
TOTAL DECR	EE CREDITS	120

AERONAUTICAL SCIENCE NOTES

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

COMMUNICATION THEORY AND SKILLS: HU: 122, 143, 219, 221, 222, 362, 410, 420.

HUMANITIES: LOWER LEVEL: HU 130+, 135+, 140, 141, 142, 144, 145, 250.

UPPER LEVEL: HU 330, 335, 341, 345, 360, 361, 362, 420.

MANAGEMENT:

BA 201

SOCIAL SCIENCES:

LOWER LEVEL: EC 200, PSY 220.

UPPER LEVEL: SS 310, 325, 335, 350, 351, 352.

Students enrolled in the Army or Air Force ROTC program may substitute MY or AF courses for the stated open elective courses.

Cooperative Education credits may be used as open electives.

Suggested Program of Study Airline Pilot Area of Concentration

The Airline Pilot area of concentration is designed for students whose goal is to fly for a scheduled airline. The academic and flight courses are designed to provide exposure to procedures and operations consistent with those found at air carriers. The upper level AS courses are very technical and provide the foundation for the capstone flight courses that are designed to be consistent with current airline transport pilot requirements.

FRESHMAN YEAR

Course	Title	Credits
AS 130	Aeronautics I	4
AS 131	Aeronautics I Flight Lab	2
AS 201	Meteorology I	3
	Communication Theory and Skills*	3
	Lower Level Humanities*	3
	CS Elective	3
12.12.12.12	Lower Level Social Science	3
MA 111	College Mathematics for Aviation I	3
MA 112		3
PS 103	Technical Physics I	2
Total Cr	edits	30

SOPHOMORE YEAR

Course	Title	Credits
AS 230	Aeronautics II	3
AS 231A	eronautics II Flight Lab	2
AS 270	Aeronautics III	3
AS 271	Aeronautics III Flight Lab	1
AS 309	Aerodynamics	3
AS 357	Flight Physiology	3
	Communication Theory and Skills*	6
	Lower Level Social Science*	3
PS 104	Technical Physics II	3
	Management Elective*	3
Total Cr	edits	30

JUNIOR YEAR

Course	Title	Credits
AS 310	Aircraft Performance	3
AS 311	Aircraft Engines - Turbine	3
AS 330	Aeronautics IV	3
AS 340	Instructional Design in Aviation OR	
AS 417	Flight Training Methods and	
	Curriculum Analysis	3
AS 352	Meteorology II	3
AS 356	Aircraft Systems and Components	3

	Upper Level HU/SS Elective*	3
AS 370	Advanced Multi-engine Instrumer	t Flight1
AS 380	Pilot Career Planning and	
	Interviewing Techniques	1
AS 385	Crew Resource Management	2
	Open Electives	6
Total Cr	redits	31

SENIOR YEAR

Course	Title	Credits
AS 402	Airline Pilot Operations OR	
AS 410	Airline Dispatch Operations OR	
AS 320	Commuter Aviation	3
AS 408	Flight Safety	3 3 3
AS 411	Jet Transport Systems	3
AS 420	Flight Technique Analysis	3
AS 430	Turboprop Techniques and	
	Crew Procedures	2
AS 440	Crew Resource Management Skills	1
AS 452	Electronic Navigation and Flight	
	Control Systems	3
AS 460	International Flight Operations	3
AS 470	Airline Flight Crew Techniques	
	and Procedures	2
	Open Electives	6
Total Cr	edits	29
TOTAL E	DEGREE CREDITS	120

Corporate Pilot Area of Concentration

The Corporate Pilot area of concentration gives students a curriculum with a selection of courses designed to support the knowledge and training required by non-scheduled employers flying the modern, technically sophisticated multi-crew aircraft found in corporate flight departments today. Management and business courses are provided to further enhance the students' knowledge of corporate-type operations. A business minor is required to complete this area of concentration.

FRESHMAN YEAR

Course	Title	Credits
AS 130	Aeronautics I	4
AS 131	Aeronautics I Flight Lab	2
AS 201	Meteorology I	3
	Communication Theory and Skills*	3
	Lower Level Humanities*	3
	CS Elective	3
	Lower Level Social Science*	3

MA 111 MA 112	College Mathematics for Aviation I College Mathematics for Aviation II	3	Stu	dents enrolled in the Army or	Air Force
PS 103	Technical Physics I	3	ROTO	program may substitute MY	or AF
Total C	Control of the Contro	30	courses for the stated open elective courses.		
		30	Coc	pperative Education credits ma	v be used
SOPHO	OMORE YEAR		as ope	n electives.	,
Course	Title	Credits			
AS 230	Aeronautics I	3	Aviati	on Studies Area of Concentra	tion
AS 231	Aeronautics II Flight Lab	2	The	Aviation Studies area of conce	entration
AS 270	Aeronautics III	3	is desi	gned for pilots with career inte	erests
AS 271	Aeronautics III Flight Lab	1	requir	ing a more flevible degree pro-	more The
AS 309	Aerodynamics	3	A	ing a more flexible degree prog	gram. The
AS 357	Flight Physiology	3	Aeron	autical Science core course inte	egrity is
	Communication Theory and Skills*	6	mainta	ained, while allowing greater of	pportu-
	Lower Level Social Science*	3	nity fo	or the selection of courses to me	eet the
	Management Elective*	3	needs	of other segments of the aviati	on indus
PS 104	Technical Physics II	3	for a se	or order segments of the aviati	on maus-
Total C		30	try no	t specifically addressed by the	Airline
		30	Pilot o	r Corporate Pilot areas of conc	entration.
JUNIO	RYEAR			MAN YEAR	
Course	Title	Credits	Course		Credits
AS 310	Aircraft Performance	2	AS 130		Credits
AS 311	Aircraft Turbine Engines	3	AS 131		9
AS 330	Aeronautics IV	2	AS 201	and the second s	2
AS 352	Meteorology II	3	130 201	Meteorology Communication Theory and Skills*	3
AS 356	Aircraft Systems and Components	3		Lower Level Humanities*	3
AS 370	Advanced Multi-engine			Lower Level Social Sciences*	2
	Instrument Flight	4		Computer Science Elective	3
AS 380	Pilot Career Planning and		MA 111	College Mathematics for Aviation I	3
1900	Interviewing Techniques	1	MA 112	College Mathematics for Aviation II	3
AS 385	Crew Resource Management I	2	PS 103	Technical Physics I	3
AS 417	Flight Training Methods and	-	Total Cr		30
	Curriculum Analysis OR				30
AS 340	Instructional Design in Aviation	3		MORE YEAR	
	Upper Level HU/SS Elective	3	Course	Title	Credits
	Minor Courses/Open Electives	6	AS 230	Aeronautics II	3
Total Cr		31	AS 231	Aeronautics II Flight Lab	2
		31	AS 254	Aviation Legislation	3
SENIOR			AS 270	Aeronautics III	3
Course	Title	Credits	AS 271	Aeronautics III Flight Lab	1
AS 408	Flight Safety	3	AS 309	Aerodynamics	3
AS 412	Corporate Business Aviation	3		Communication Theory and Skills*	6
AS 420	Flight Technique Analysis	3	DC 104	Lower Level Social Sciences*	3
AS 430	Turboprop Techniques and		PS 104	Technical Physics II	3
	Crew Procedures	2	200 1 1 100	Management Elective*	.3
AS 440	Crew Resource Management Skills	1	Total Cr	edits	30
AS 452	Electronic Navigation and		JUNIOR	YEAR	
10.400	Flight Control Systems	3	Course		Credits
AS 453	High Performance Aircraft Flight		AS 310	Aircraft Performance	3
10.100	Crew Techniques and Procedures	2	AS 311	Aircraft Engines-Turbine	3
AS 460	International Flight Operations	3	AS 352	Meteorology II	3
	Minor Courses/Electives	2	AS 356	Aircraft Systems and Components	3
Total Cre	edits	29	AS 357	Flight Physiology	3
TOTAL D	EGREE CREDITS	120	AS 380	Pilot Career Planning and	3
				Interviewing Techniques	1
				Open Electives	15
			Total Cre		31

SENIOF Course	YEAR Title	Credits
and the state of	Upper Level Humanities or	2
AS 408	Social Sciences* Flight Safety	3
AS 420	Flight Technique Analysis	3
	Minor Courses/Elective	20
one min	d courses necessary to complete at or and open electives sufficient to nent of 40 credits in upper-division	meet the
Total Cr	redits	29
TOTAL I	DEGREE CREDITS	120
	lents enrolled in the Army	or Air Force

Students enrolled in the Army or Air Force ROTC program may substitute MY or AF courses for the stated open elective courses.

Cooperative Education credits may be used as open electives.

Airway Science

DEGREE REQUIREMENTS

The Associate Degree in Airway Science is intended for those pursuing aviation careers where full professional preparation and a baccalaureate degree are not necessary. Normally, the required 63 credit hours can be completed in four semesters. This program includes qualification for the FAA commercial pilot certificate with an instrument-airplane rating and the flight instructor certificate with airplane single-engine and instrument airplane ratings.

FIRST Y		Credits
Course	Communication Theory and Skills*	3
	Lower Level Humanities*	3
	Lower Level Social Science*	3
	CS Elective	3
AS 130	Aeronautics I	2
AS 131 AS 201	Aeronautics I Flight Lab Meteorology	3
MA 111	College Mathematics for Aviation I	3
MA 112	College Mathematics for Aviation II	3
PS 103	Technical Physics I	_3
Total Cr	edits	30
SECON	D YEAR	200
Course		Credits
	Communication Theory and Skills*	6

111111	AS 230 AS 231 AS 254 AS 270 AS 271 AS 309 AS 357 AS 417	Lower Level Social Sciences* Aeronautics II Aeronautics II Flight Lab Aviation Legislation Aeronautics III Aeronautics III Flight Lab Aerodynamics Flight Physiology Flight Training Methods and	3 2 3 3 1 3
	S 104	Curriculum Analysis** Technical Physics II	3 3
- 5	Total C		33
1	TOTAL I	DEGREE CREDITS	63

AIRWAY SCIENCE NOTES:

*Embry-Riddle courses in the general education categories Communication Theory and Skills, Humanities, Social Sciences, and Management may be chosen from those listed below, assuming prerequisite requirements are met. Courses from other institutions are acceptable if they fall into these broad categories and are at the level specified above in the Airway Science vertical outline.

COMMUNICATION THEORY AND SKILLS: HU: 122, 143, 219, 221, 222, 362, 410, 420.

HUMANITIES: LOWER LEVEL: HU 130*, 135*, 140, 141, 142, 144, 145, 250. UPPER LEVEL: HU 330, 335, 341, 345, 360, 361, 362

MANAGEMENT:

BA 201

SOCIAL SCIENCES:

LOWER LEVEL: EC 200; PSY 220. UPPER LEVEL: SS 310, 325, 335, 350, 351, 352.

** Requires CASEL Certificate.

AIRCRAFT DISPATCHER CERTIFICATION PROGRAM

For the student interested in airline flight operations management, Embry-Riddle offers a program to prepare the student for Aircraft Dispatcher certification testing. The FAA awards the Aircraft Dispatcher Airman Certificate to graduates of the approved program after the successful completion of a standardized written examination and a practical test.

Licensed dispatchers are employed by airlines to manage the ground-based tasks vital to a successful airline flight. Dispatchers share responsibility with the captain for preflight planning and preparation of the dispatch release, and they are included in the decision loop on equipment failures, weather variations, or traffic delays for monitoring the progress of the flight, issuing safety-of-flight information to the crew, and canceling or redispatching the flight.

To carry out these tasks properly, dispatchers must be knowledgeable in aircraft performance capabilities, meteorology, operating regulations, air traffic control, and instrument flight procedures. They must also be able to make sound decisions that incorporate the company's economic and scheduling considerations. This certificate not available at the

Extended Campus.

CERTIFICATION REQUIREMENTS

The Aircraft Dispatcher certification program is available only at the Daytona Beach campus. Dispatcher preparation is based on the successful completion of the following Aeronautical Science courses and the applicable prerequisites.

Course	Title	Credits
AS 130	Aeronautics I	4
AS 201	Meteorology I	3
AS 230	Aeronautics II	3
AS 270	Aeronautics III	3
AS 310	Aircraft Performance	3
AS 330	Aeronautics IV	3
AS 352	Meteorology II	3
AT 363	ATC in the National Aerospace 9	system 3
♦AS 410	Air Carrier Operations	3
Total Cre	edits	28

◆AS 410 serves as the capstone course to the Aircraft Dispatcher program. Students must not take this course until they are close to 21 years of age and have completed and passed all other required Aeronautical Science courses for the Aircraft dispatcher Program.

This program is offered in the pursuit of a degree and not as separate training. Qualification for FAA testing normally requires a minimum of six trimesters of

instruction.

To receive credit for any of the courses listed above toward the Aircraft Dispatcher certification program, the student must sign up in each required course, maintain a record of 100 percent attendance throughout each course and obtain a grade of at least 70 percent.

For more information, contact the Aeronautical Science Department.

Aerospace Engineering Program

CHAIRMAN A.I. Ormsbee PROGRAM COORDINATOR J.R. Novy

Aerospace Engineering

Bachelor of Science

Embry-Riddle offers the Bachelor of Science degree in Aerospace Engineering at the Daytona Beach and Prescott campuses. The Aerospace Engineering program provides the student the opportunity to acquire specific aerospace design skills, as well as a broad exposure to theory and modern analysis, measurement, communications and computational techniques essential for a wide range of entry-level engineering positions in the aerospace industry.

To enter this program, students should have demonstrated competence in mathematics, physics, and chemistry in high school. They should be prepared to enter Calculus I, having demonstrated proficiency in algebra and trigonometry. Students can prepare themselves for this program, if required, by taking MA 140 College Algebra, and MA 142 Trigonometry at Embry-Riddle before taking MA 241 Calculus and Analytical Geometry I.

DEGREE REQUIREMENTS

The Bachelor of Science in Aerospace Engineering program requires successful completion of a minimum of 135 credit hours. The program may be completed in eight semesters assuming appropriate background and full-time enrollment. A minimum cumulative grade point average of 2.00 is needed for all required AE, EGR and ES courses, excluding technical electives. The courses necessary to earn this degree are listed below.

Students should be aware that several courses in each academic year may have prerequisites and/or co-requisites. Check the course descriptions at the back of this catalog before registering for classes to assure requisite sequencing.

FRESHMAN YEAR

Course	Title	Credits
	Communication Theory and Skills*	3
	Lower Level Humanities*	3
	Lower Level Social Sciences*	3
AE 101	Introduction to Aerospace	
Company of the	Engineering	2
CS 223	Scientific Programming in C	3
EGR120	Graphical Communications	2
MA 241	Calculus and Analytical Geometry I	4
MA 242	Calculus and Analytical	
	Geometry II	4
PS 140	Chemistry for Engineers	4
PS 141	Chemistry for Engineers Laboratory	1
PS 211	Engineering Physics I	4
PS 212	Engineering Physics Lab I	_1
Total Cr		34

SOPHOMORE YEAR

Course	Title	Credit
	Communication Theory and Skills*	6
ES 201	Statics	3
ES 202	Solid Mechanics	3
ES 204	Dynamics	3
ES 206	Fluid Mechanics	3
MA 243	Calculus and Analytical Geometry III	4
MA 345	Differential Equations and	
	Matrix Methods	4
PS 217	Engineering Physics II	4
PS 218	Engineering Physics Laboratory II	1
Total Cr		31

JUNIOR	R YEAR	
Course	Title	Credit
	Lower Level Social Sciences*	3
	Upper Level Humanities or	77.20
4 97 200	Social Sciences*	3
AE 301	Aerodynamics 1	3
AE 302	Aerodynamics II	3
AE 304	Aircraft Structures I	3
AE 309	Experimental Aerodynamics w/Lab	2
AE 404	Aircraft Structures II	3
AE 413	Airplane Stability and Control	3
ES 305	Thermodynamics	3
ES 307	Engineering Materials Science	
	w/Lab	3
ES 402	Electrical Engineering I w/Lab	3
MA 441	Advanced Engineering	10000
	Mathematics 1	3
Total Cr	edits	35

SENIOR YEAR

Course	Title	Credits
AE 408 AE 420	Upper Level Humanities or Social Sciences* Technical Electives Open Elective Turbine and Rocket Engines Aircraft Preliminary Design	6 6 3 3 3
AE 421	Aircraft Detail Design	3
AE 430	Control Systems Analysis and Design	3
ES 405	Electrical Engineering II	3
ES 409 ES 410	Space Mechanics Structures and Instrumentation	3
	Lab	_2
Total Cr	edits	35
TOTAL I	DEGREE CREDITS	135

TECHNICAL ELECTIVES:

AE 350, 399, 401, 407, 409, 411, 415, 425, 433, 499, 5XXU CE: By Special Arrangement CS: 335, 395 1 EP: 320 ES: 399**, 499** MA: 412, 432, 438, 442, 443, 5XXU

MET: 303 PS: 301, 303, 320

 Must be approved by the Aerospace Engineering department before taking this course. Students may substitute upper-level AF and MY courses or aeronautical certificates for a maximum of 6 credits of the technical electives. Cooperative Education credits may be used as open and/or technical electives with advance approval from the department chair. For details, see the Cooperative Education faculty advisor.

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

COMMUNICATION THEORY AND SKILLS: HU: 122, 143, 219, 221, 222, 315, 319, 351, 355, 360, 361,362, 410, 420.

HUMANITIES: LOWER LEVEL: HU 130+, 135+, 140, 141, 142, 144, 145, 146, 150+, 151+, 153+, 155+, 157+, 159+, 250. may not be the student's native language

UPPER LEVEL: HU 300, 305, 310, 320, 325, 330, 335, 341, 345,363, 399**, 499**.

 Must be approved by the Aerospace Engineering department before taking this course.

SOCIAL SCIENCES: LOWER LEVEL:

EC 200, 210, 211 (EC 200 is not acceptable together with EC 210 or EC 211 or their equivalent), SS 110, 120, 130, 204, 210,; PSY 220.

UPPER LEVEL:

EC 310, 312, 315, 420, SS 302, 305, 310, 320, 325, 331, 340, 350, 360, 399**, 499**. HF 300

HF 300 PSY 350

 Must be approved by the Aerospace Engineering department before taking this course.

Aerospace Studies Program

DEPARTMENT OF HUMANITIES/SOCIAL SCIENCES

CHAIRMAN R.M. Oxley Associate Chairman G. Kain PROGRAM COORDINATOR N. Parker

Aerospace Studies

Bachelor of Science

The Aerospace Studies degree program is administered by the Humanities/Social Sciences Department.

PROGRAM PLAN OF STUDY AND REQUIREMENTS

The Aerospace Studies program consists of core requirements and three minors. The core requirements in this program help make our students more worldly thinkers who understand that information and skills gleaned from one area of life can be applied to other areas. The program's core requirements respond directly to calls by American corporate leaders for graduates who understand both technology and human beings. To that end, students choose from courses in the humanities, geography, international studies, philosophy and ethics, and psychology. The core prepares students to connect their three minor fields of study meaningfully and usefully. The Engineering and Society course, for example, introduces the usefulness of an interdisciplinary approach for learning. In the capstone experience, the student chooses a senior thesis, which includes inquiry into at least two minors, or a co-op in industry.

By combining three minors, students design their own degree programs. Such combinations as air traffic control/psychology/safety or space studies/computer science/psychology offer combinations of fields that the aerospace industry should find useful. Minors in secondary education, humanities, and mathematics can lead to the teaching profession or graduate studies. Minors in the business areas give students practical knowledge that combines well with the more technical areas. The element of choice in the program gives students experience in planning their own futures: the program seeks to produce students with an entrepreneurial spirit who will cross boundaries, make creative connections, and become leaders in aviation and aerospace.

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

DEGREE REQUIREMENTS

The Bachelor of Science degree in Aerospace Studies requires successful completion of a minimum of 120 credit hours.

GENERAL EDUCATION

Courses	Credits
Communication Theory and Skills*	9
Computer Science	3
Humanities lower level*	3
Mathematics	6
Physical and Life Science	6
Social Sciences lower level*	6
HU/SS 300-400 level*	_ 3
Total Credits	36

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

COMMUNICATION THEORY AND SKILLS:

HU: 122, 219, 221, 222, 319, 351, 355, 360, 361, 362, 363, 399, 410, 420, 499.

HUMANITIES:

LOWER LEVEL: HU 140-146, UPPER LEVEL: 300-400 level.

SOCIAL SCIENCES:

LOWER LEVEL: EC 200, 210, 211 (EC 200 is not acceptable together with EC 210 or EC 211 or their equivalent),

SS 110, 120, 204, 210

PSY 220.

UPPER LEVEL: SS 302, 305, 310, 320, 325, 331, 340, 350, 352, 360, 399, 499.

CORE REQUIREMENTS

Course	Title	Credits
AS 120	Introduction to Aeronautical Science OR	
SP 110	Introduction to Space Flight OR	
FAA BA 105	Private Pilot Certificate American Business Enterprise OR	3
BA 201	Principles of Management	3
ES 100	Engineering and Society	3
HU140+ HU146+	One course from the Humanities Series OR	
SS 204	Introduction to Geography	3
*Must be to satisf HU/SS	chosen from one of the courses above y general education credit. International Studies Electives	not used
	(Colorated from LIII 225 CC 225	
	(Selected from HU 335, SS 325, SS 331 or SS 340)	. 6
HU 330	SS 331 or SS 340)	6
HU 330 HU 341	SS 331 or SS 340) Values and Ethics OR	6
HU 330 HU 341	SS 331 or SS 340) Values and Ethics OR World Philosophy (If not taken for	
HU 341	SS 331 or SS 340) Values and Ethics OR World Philosophy (If not taken for general education credit)	6
HU 341	SS 331 or SS 340) Values and Ethics OR World Philosophy (If not taken for	
HU 341 MA 222	SS 331 or SS 340) Values and Ethics OR World Philosophy (If not taken for general education credit) Business Statistics (If not taken for general education credit) Introduction to Psychology (If not	3
HU 341 MA 222 PSY 220	SS 331 or SS 340) Values and Ethics OR World Philosophy (If not taken for general education credit) Business Statistics (If not taken for general education credit) Introduction to Psychology (If not taken for general education credit)	3
HU 341 MA 222 PSY 220 CE 396/39	SS 331 or SS 340) Values and Ethics OR World Philosophy (If not taken for general education credit) Business Statistics (If not taken for general education credit) Introduction to Psychology (If not taken for general education credit) Cooperative Education OR	3
HU 341 MA 222 PSY 220	SS 331 or SS 340) Values and Ethics OR World Philosophy (If not taken for general education credit) Business Statistics (If not taken for general education credit) Introduction to Psychology (If not taken for general education credit)	3 3 3

MINORS

Students must select three minor fields of study. At least one of these must be aviation/aerospace related. Total credits within the minors will vary from 45-63, depending on the minors chosen. See Minor Courses of Study in this catalog.

Open Electives 0-18
TOTAL DEGREE CREDITS 120-132

Aircraft Engineering Technology Program DEPARTMENT OF TECHNOLOGY

CHAIRMAN P.S. Pierpont PROGRAM COORDINATOR
G. McNutt

Aircraft Engineering Technology

Bachelor of Science

Embry-Riddle offers the Bachelor of Science degree in Aircraft Engineering Technology (ACET) at the Daytona Beach campus. The ACET program is TAC of ABET accredited and is designed to give the student a solid foundation in mathematics and the natural sciences as well as broad exposure to technical courses that address the application of scientific and engineering knowledge combined with technical skills in support of engineering activities. The program provides the strong background in basic engineering, aerodynamics, structures, propulsion, and integrated logistics support required for a wide range of careers in the aviation industry.

ADMISSION REQUIREMENTS

Students entering this program should have a basic background in math, physics, and chemistry. College Calculus is the entry-level math course. Students wishing to strengthen their background in math and the basic sciences before enrolling in the prescribed course sequence should consult the Department Chair for guidance in course selection.

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

DEGREE REQUIREMENTS

The Bachelor of Science in Aircraft Engineering Technology requires successful completion of 125 semester hours, as outlined in the following course list. A minimum cumulative grade point average of 2.00 is needed for all required engineering technology courses.

FRESHMAN YEAR

Course	Title	Credit
	Communication Theory and Skills*	6
	Lower Level Humanities*	3
CS 223	Scientific Programming in C	3
DET 111	Engineering Drawing	2
MA 241	Calculus and Analytical Geometry I	4
MA 242	Calculus and Analytical Geometry II	4
PS 101	Basic Chemistry	3.
PS 211	Engineering Physics I	4
PS 212	Engineering Physics Laboratory I	1
Total Cr	edits	30

SOPHOMORE YEAR

Course	Title	Credits
	Communication Theory and Skills*	3
	Lower Level Social Science*	3
EET 225	Applied Electrical Science w/Lab	4
MET 201	Applied Statics and Dynamics	4
MET 210	Applied Thermodynamics	3
MET 211	Applied Strength of Materials w/Lab	4
MET 212	Applied Hydraulics	2
MA 245	Applied Differential Equations	3
PS 217	Engineering Physics II	4
PS 218	Engineering Physics Laboratory II	1
Total Cre	edits	31
ADDRESS LINE	07723	

JUNIOR YEAR Course Title

	Table 1	
	Upper Level Humanities or Social Science*	6
		6
ACET 30	A CONTRACTOR OF THE PROPERTY OF THE PERSON O	
	and Testing w/Lab	4
ACET 30	2 Applied Aerodynamics I	3
ACET 31	Aircraft Drafting and Design	3

Credits

ACET 312 ACET 314	Applied Aerodynamics II w/Lab Aircraft Structural Analysis	3
LET 304	Applied Reliability and	
MET 303 OPEN	Maintainability Engineering Mechanical Design Elective	3 3
Total cred	A CONTROL OF STATE OF	32
SENIOR Y		34
	fitle	
Course		Credit
A CTTT 400	Lower Level Social Sciences*	3
ACET 402	Applied Instrumentation	3
ACET 403	Applied Performance and Design	3
ACET 404	Aircraft Composites w/Lab	2
ACET 405	Aircraft Internal Combustion Engin	es 2
ACET 406	Introduction to Systems Analysis	
	and Design	3
ACET 407	Aircraft Engines and Gas Turbines	3
ACET 410	Applied Structural Dynamics	3
ACET 412	Aircraft Structures Test Lab	1
ACET 415	Aircraft Detail Design	3
LET 413	Integrated Aviation Logistics Suppo	rt 3
OPEN	Elective	3
Total Cred	its	32
TOTAL DEC	REE CREDITS	-
TOTAL DEG	REE CREINIS	125

Students should enroll in Cooperative Education or Intern programs as early as possible in their program. Cooperative Education credits may be used as open electives.

*Embry-Riddle courses in the general education categories Communication Theory and Skills, Humanities and Social Sciences may be chosen from those listed below, assuming prerequisite requirements are met. Courses from other institutions are acceptable if they fall into these broad categories and are at the level specified above in the Avionics Engineering Technology vertical outline.

COMMUNICATION THEORY AND SKILLS:

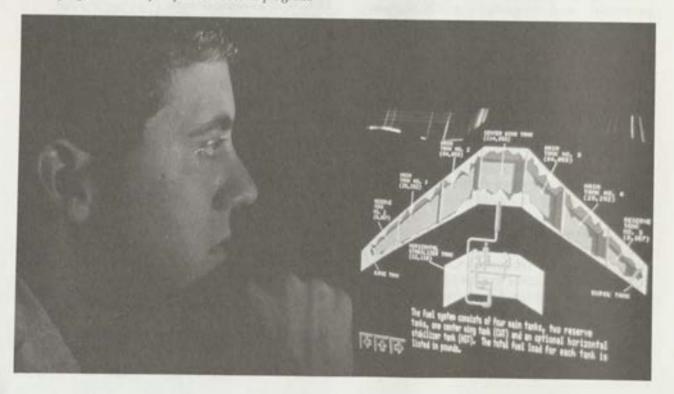
HU: 122, 219, 221, 222.

HUMANITIES;

LOWER LEVEL: HU 140, 141, 145 UPPER LEVEL: HU 300, 305, 310, 320, 325, 330, 335, 341, 345, 399, 499.

SOCIAL SCIENCES:

LOWER LEVEL: EC 200, 210, 211 (EC 200 is not acceptable together with EC 210 or EC 211 or their equivalent), PSY 220, SS 110, 120, 204, 210, UPPER LEVEL: EC 310, 312, 315, 420, SS 302, 305, 310, 320, 325, 331, 335, 340, 350, 352, 399, 499.



Aviation Maintenance and Technology Programs DEPARTMENT OF TECHNOLOGY

Aircraft Maintenance
Aviation Maintenance Technology
Aviation Technology
AMT/Flight Option
AMT/Avionics Option
Avionics/Flight Option

DAYTONA BEACH

Aircraft Maintenance

Aviation Maintenance Technology

CHAIRMAN P.S. Pierpont PROGRAM COORDINATOR M. Williams PROGRAM COORDINATOR Aviation Technology G. Travis

EXTENDED CAMPUS

Aircraft Maintenance Associate in Science

PROGRAM CHAIRMAN T.M. Edwards

Aircraft Maintenance

Associate in Science

Maintenance technology training may be taken as an integral part of the Associate in Aviation Maintenance Technology, the Associate in Science in Aircraft Maintenance, the Bachelor of Science in Aviation Technology, or the Aviation Maintenance Management programs. In addition, AMT courses may be pursued as an area of concentration in other selected degree programs, or selected courses may be used as elective credit in most Embry-Riddle degree programs.

AIRFRAME AND POWERPLANT TECHNOLOGY

Embry-Riddle offers two distinct types of AMT degree programs for students who want to prepare for the FAA airframe and/or powerplant (A&P) examinations and pursue degree programs which require those skills.

The Type 147 program, offered only at the Daytona Beach campus, presents a carefully selected blend of theory and practical applications, which gives the student an opportunity to prepare for and take the FAA airframe and/or powerplant examinations. A minimum grade point average of 2.0 is required for each of the three sections (general, airframe, and powerplant) of the Type 147 AMT program. Students perform actual repairs and overhaul of engines and accessories, including those used in Embry-Riddle's fleet of aircraft. The Samuel Goldman AMT Center at the Daytona Beach campus is fully approved under Part 147 of the Federal Aviation Regulations and holds Air Agency Certificate No. NX4T404M and FAA Repair Station Certificate No. NX42404M.

In the Type 65 program, Embry-Riddle offers special AMT courses to students in the Extended Campus who are experienced but unlicensed aircraft maintenance specialists. These courses deal largely with the theory and concepts of all aspects of airframe and

powerplant maintenance and with the problems, considerations and practices involved in maintaining aircraft in airworthy condition. The completion of Type 65 courses does not influence the determination by the FAA of eligibility to take the airframe and/or powerplant examinations. The courses, together with on-the-job experience and/or successful completion of the A&P examinations, may be applied toward meeting the requirements of various Embry-Riddle degree programs. Type 65 courses are offered at various Extended Campus centers.

Students should be aware that several courses in each academic year may have prerequisites and/or co-requisites. Check the course description at the back of this catalog before registering for classes to assure requi-

site sequencing.

DEGREE REQUIREMENTS

The Associate in Science degree in Aircraft Maintenance requires successful completion of the following:

ERAU Type 147 Aviation Maintenance Technology Program (48 Credits)

Type 147 Aviation Maintenance Technology Program is available only at the Daytona Beach campus.

Course 7	litle	Credits
AVMT 111		
	Technicians	2
AVMT 112	Aviation Regulations, Records and	
200000000	Documents	2
AVMT 113	Aircraft Familiarization and Flight	
4173 FF 444	Line Operations	2
AVMT 114	Aviation Material	2
AVMT 115	Direct Current Electricity	2
AVMT 116	Alternating Current Electricity	2
AVMT 211	Introduction to Aircraft Electrical	200
	Systems	2
AVMT 212	Aircraft Sheet Metal Structures	100
	Fabrication	2
AVMT 213	Aircraft Instruments and	-
	Communication / Navigation System	15 2
AVMT 214	Aircraft Composite Structures	2
AVMT 215	Classic Airframe Structures	2
AVMT 216	Airframe Inspections and Rigging	2

AVMT 221 AVMT 222 AVMT 223 AVMT 224	Introduction to Aircraft Powerplants Aircraft Powerplant Systems Engine Electrical and Ignition System Propellers and Propeller Systems	2 2 3
AVMT 311	Aircraft Environmental and	- 30
	Fuel Systems	2
AVMT 312	Aircraft Fluid Power Systems	2
AVMT 313	Aircraft Electrical Systems	2
AVMT 321	Aircraft Engine Line Maintenance	3
AVMT 322	Reciprocating Engine Overhaul	3
AVMT 323	Turbine Engines and Turbine	9
	Engine Systems	3
Total Credi	ts	48

ERAU Type 65 Aviation Maintenance Technology Program (36 Credits)

Type 65 Aviation Maintenance Technology Program is available only at the Extended Campus.

Course	Title	Credits
AMT 240	General Aeronautics and Applications	3
AMT 260	Aircraft Electrical Systems Theory	3
AMT 270	Airframe Structures and Applications	4
AMT 271	Airframe Systems and Applications	3
AMI 280	Powerplant Theory and Applications	4
AMT 281	Aircraft Propulsion Systems and Applications	2.4
Electives	(AMT, AS, AV, CS, EL, FA, MS)	4
	or AMT 275 and AMT 285	15%
Total Cre	dits	36

AND 33 designated credits as follows:

Course	Title (redits
	Communication Theory and Skills*	9
	Lower Level Humanities*	3
	Lower Level Social Science*	6
BA 201	Principles of Management	3
CS 109	Introduction to Computers and Applications OR	
CS 210	Scientific Programming OR	
CS 223	Scientific Programming in C	3
MA 111	College Mathematics for Aviation I OR	-
MA 120	Quantitative Methods I OR	
MA 140	College Algebra	3
MA 112	College Mathematics for Aviation II OR	
MA 211	Statistics with Aviation Applications OF	
MA 222	Business Statistics	3
PS 102	Explorations in Physics	3
Total Cre		33
Tatalian	and the second second	

Total credits required vary from 69 to 81 depending on the method of obtaining the maintenance qualification.

*Embry-Riddle courses in the general education categories Communication Theory and Skills, Humanities and Social Sciences may be chosen from those listed below, assuming prerequisite requirements are met. Courses from other institutions are acceptable if they fall into these broad categories and are at the level specified above in the Aviation Maintenance and Technology vertical outlines.

COMMUNICATION THEORY AND SKILLS:

HU: 122, 219, 221, 222.

HUMANITIES:

LOWER LEVEL: HU 140 - 145

SOCIAL SCIENCES:

LOWER LEVEL: EC 200, 210, 211 (EC 200 is not acceptable together with EC 210 or EC 211 or their equivalent), PSY 220, SS 110, 120, 204, 210.

Aviation Maintenance Technology

Associate

This degree program is open only to Type 147 students at the Daytona Beach campus.

DEGREE REQUIREMENTS

Degree requirements for the Associate degree in Aviation Maintenance Technology are outlined in the following list:

FRESHMAN YEAR

(General Aeronautics)

(General A	reronautics)	
Course T	Title	Credits
	Communication Theory and Skills*	3
AVMT 111	Applied Science for Aerospace	
	Technicians	2
AVMT 112	Aviation Regulations, Records	
	and Documents	2
AVMT 113	Aircraft Familiarization and	
	Flight Line Operations	2
AVMT 114	Aviation Material	2
AVMT 115		2
AVMT 116	Alternating Current Electricity	2 2 2
(Airframe	D	
	Lower Level Humanities*	3
AVMT 211	Introduction to Aircraft	
	Electrical Systems	2

AVMT 212	Aircraft Sheet Metal	-
AVMT 213	Structures Fabrication Aircraft Instruments and	2
MANUEL ELS	Communication/Navigation	
	Systems	2
AVMT 214	Aircraft Composite Structures	2
AVMT 311	Aircraft Environmental and Fuel Systems	2
AVMT 312	Aircraft Fluid Power Systems	2
MA 111	College Mathematics for Aviation I	OR
MA 140	College Algebra	3
Total Cred	its	33
SOPHOM	ORE YEAR	
(Airframe	II)	
Course T	îtle	Credits
	Communication Theory and Skills	3
AVMT 215	Classic Airframe Structures	2
AVMT 216	Airframe Inspections and Rigging	2
AVMT 313	Aircraft Electrical Systems	4
(Powerpla	nt I)	
AVMT 221	Introduction to Aircraft Powerplan	ts 2
AVMT 222	Aircraft Powerplant Systems	2
AVMT 223	Engine Electrical and Ignition Syste	ems Z
AVMT 224	Propellers and Propeller Systems	3
AVMT 321 AVMT 322	Aircraft Engine Line Maintenance Reciprocating Engine Overhaul	3
AVMT 323	Turbine Engine & Turbine	
	Engine Systems	3
BA 120	Introduction to Computer Based	
	Systems OR	
CS 109	Introduction to Computers and	
CCALA	Applications OR	-
CS 210 SS	Scientific Programming Elective	3
Total Cred		33
		MARKET
TOTAL DEC	REE CREDITS	66

Cooperative Education credits are in excess of degree requirements.

Aviation Technology

Bachelor of Science

DEGREE REQUIREMENTS

The Bachelor of Science in Aviation Technology, which is available at the Daytona Beach campus only, requires successful completion of 120 to 128 credit hours. The student must complete general education, program support and two of the three options in aviation electronics (avionics), maintenance, and flight. A minimum cumulative grade point average is required in all course work.

TYPE 147 AMT/FLIGHT

Aeronautics I

Aeronautics I Flight I als

FIRST YEAR Course Title

AS 130

PG 131	Actonautics I Flight Lab	4
AS 201	Meteorology I	3
AVMT 111	Applied Science for Aerospace	100
	Technicians	2
AVMT 112	Aviation Regulations, Records &	
	Documents	2
AVMT 113	Aircraft Familiarization and Flight	
	Line Operations	2
AVMT 115	Direct Current Electricity	2
CS 109	Introduction to Computers	
	and Applications	3
HU	Lower Level Humanities	3 3
HU 122	English Composition and Literature	3
MA 111	College Mathematics for Aviation I	3
Total Cred	its	29
SECOND	YEAR	
Course	Title	Credits
AS 230	Aeronautics II	3
AS 231	Aeronautics II Flight Lab	2
AVMT 114	Aviation Materials	2
AVMT 116	Alternating Current Electricity	2
AVMT 211	Introduction to Aircraft Electrical	
	Systems	2

AVMT 212	Aircraft Sheet Metal Structures	
	Fabrication	2
AVMT 214	Aircraft Composite Structures	2
AVMT 215	Classic Airframe Structures	2
HU 219	Speech	3
HU 221	Technical Report Writing	3
MA 112	College Mathematics for Aviation II	2
PS 103	Tachnical Dhawies I	2
	Technical Physics I	3
PS 104	Technical Physics II	2
Total Cred	its	32
THIRD YE	AR	
Part of the later of the later of	itle	Credits
	The state of the s	
AS 270	Aeronautics III	3
AS 271	Aeronautics III Flight Lab	1
AS 309	Basic Aerodynamics	3
AS 310	Aircraft Performance	3
AS 352	Meteorology II	3
AS 357	Flight Physiology	3
AVMT 213	Aircraft Instruments and	700
	Comm/Nav Systems	2
AVMT 311	Aircraft Environmental and Fuel	-
237,011-511		-
SS	Systems	4
	Lower Level Social Science Elective	3
AVMT 216	Aircraft Inspections and Rigging	2
AVMT 221	Introduction to Aircraft Powerplants	5 2
AVMT 313	Aircraft Electrical Systems	3 2 2 2 2
Total Cred		29
FOURTH Y	YEAR	
		Credits
	and a second sec	Credits
AS 408	Flight Safety	3
AS 417	Flight Training Methods and	
	Curriculum Analysis OR	
AS 340	Instructional Design in Aviation OR	
FA 495	Beech 1900 Flight Simulator (and)	2
AS 420	Flight Technique Analysis	3
AVMT 222	Aircraft Power Plant Systems	2
AVMT 223	Engine Electrical And Ignition Syste	me?
AVMT 224	Propallers and Propaller Systems	3
	Propellers and Propeller Systems	2
AVMT 312	Fluid Power Systems	2
AVMT 321	Aircraft Engine Line Maintenance	3
AVMT 322	Reciprocating Engine Overhaul	3
AVMT 323	Turbine Engines and Turbine	
	Engine Systems	3
HU	Upper Level Humanities Elective	3
SS	Upper Level Social Science Elective	3
Total Credi	HERE THE SECTION OF THE SECTION HERE THE SECTION OF THE SECTION O	r 32

Credits

Type 147 AMT/AVIONICS			EET 215 EET 216	Electronics Communications Systen Electronics Communications	15 3
FIRST YEA	L P	SIZ III	TITLE AND	Laboratory	1
The state of the same			EET 226	Microprocessor Systems	3
Course	Title	Credits	EET 227	Microprocessor Laboratory	1
AVMT 112	Aviation Regulations, Records		HU	Upper Level Elective	3
	and Documents	2	HU 221	Technical Report Writing	3
AVMT 113	Aircraft Familiarization and Flight		SS	Upper Level Elective	3
	Line Operations	2	Total Cred	its	32
AVMT 114	Aviation Materials	2			
DET 111	Engineering Graphics	2	FOURTH '	YEAR	
ET 105	Direct and Alternating Current		Course	Title	Credits
	Fundamentals Circuit Analysis	4		Upper Level Elective	3
EET 110	Direct and Alternating Current	THE REAL PROPERTY.	AVMT 224		3
101 110	Laboratory	1	AVMT 322	Reciprocating Engine Overhaul	3
HU		2	AVMT 323	Turbine Engines and Systems	3
	Lower Level Humanities	3	AVT 303	Pulse Systems	3
HU 122	English Composition and Literature	3	AVT 305	Avionics Laboratory	2
MA 111	College Mathematics for Aviation I	3	AVT 310		2
MA 112	College Mathematics for Aviation II			Aircraft Surveillance Systems	3
PS 103	Technical Physics I	3	AVT 312	System Integration	3
SS	Lower Level Elective	3	AVT 315	Advanced Avionics Laboratory	2
Total Credi	its	31	AVT 320	Aircraft Communications Systems	3
ECONID !	WEAD.		AVT 325	Aircraft Navigation and	1000
SECOND		-		Landing Systems	3
ourse	Title	Credits	Total Cred	its	31
AVMT 211	Introduction to Aircraft				- 2000
Electrical Systems		2	TOTAL DEGREE CREDITS		128
AVMT 212	Aircraft Sheet Metal Structures		A/IT		
	Fabrication	2	AVIONI	CS/FLIGHT	
AVMT 213	Aircraft Instruments and		100000000000000000000000000000000000000		
annice income	Com/Nav Systems	2			
AVMT 214	Aircraft Composite Structures	2	FIRST YEA	AR	
	Classic Airframe Structures	2	Course	Title	Credit
	Airframe Instructions and Rigging	2	AS 130	Aeronautics I	4
C 223	Scientific Programming in C	3	AS 131		1
CS 223	Scientific Programming in C			Aeronautics I Flight Lab	2
EET 205	Microelectronics Fundamentals and		AS 201	Meteorology I	3
are and	Circuit Analysis	4	CS 223	Computer Programming in C	3
EET 206	Microelectronics Laboratory	1	DET 111	Engineering Graphics	2
EET 210	Digital Circuits and Systems Analys	is 4	EET 105	Direct and Alternating Current	
EET 211	Digital Circuits Laboratory	1		Fundamental Circuit Analysis	4
EET 219	Pulse Component Laboratory	1	EET 106	Direct and Alternating Current	
EET 220	Pulse Components and Circuit			Laboratory	1
	Applications	2	HU	Lower Level Humanities	3
HU 219	Speech	3	HU 122	English Composition and Literature	3
PS 104	Technical Physics	3	MA 111	College Mathematics for Aviation I	3
		100	MA 112	College Mathematics for Aviation II	
Total Credi		34			
THIRD YE	AR		Total Cred	its	31
Course	Title	Credits	SECOND	YEAR	
AVMT 221	Introduction to Aircraft Powerplant	5 2	Course	Title	Credit
AVMT 222	Aircraft Power Plant Systems	2	AS 230	Aeronautics II	The second second
AVMT 223	Engine Electrical and Ignition System	ms 2	AS 231		2 3
AVMT 311	Aircraft Environmental and			Aeronautics II Flight Lab	2
ALLEN OFF	Fuel Systems	2	AS 270	Aeronautics III	3
AVMT 312		2	AS 271	Aeronautics III Flight Lab	1
	Aircraft Fluid Power Systems	2 2 3	EET 205	Microelectronics Fundamentals and	
AVMT 313	Aircraft Electrical Systems	2		Circuit Analysis	4
AVMT 321	Aircraft Line Maintenance	3			

EET 206	Microelectronics Fundamental	
	Laboratory	1
EET 210	Digital Circuits and Systems Analysis	4
EET 211	Digital Circuits Laboratory	1
EET 219	Pulse Components and	3
	Circuit Laboratory	1
EET 220	Pulse Components and	
	Circuit Applications	2
HU 219	Speech	3
PS 103	Technical Physics I	3
PS 104	Technical Physics II	3
Total Cred	lits	31
THIRDY	CAR	

THIRD YEAR

Course	Title	Credit
AS 309	Basic Aerodynamics	3
AS 310	Aircraft Performance	3
AS 352	Meteorology II	3
AS 357	Flight Physiology	3 3
EET 215	Electronics Communications System	ts 3
EET 216	Electronics Communication	
	Laboratory	1
EET 226	Microprocessor Systems	3
EET 227	Microprocessor Laboratory	1
HU 221	Technical Report Writing	3
HU	Upper Level Elective	3
SS		3
Total Cre		29
SS	Lower Level Elective	3 29

FOURTH YEAR

Course	Title	Credits
AS 408	Flight Safety	3
AS 417	Flight Training Methods and	
0.270307	Curriculum Analysis OR	3
AS 340	Instructional Design in Aviatio	n OR
FA 495	Beech 1900 Flight Simulator Al	ND 2
AS 420	Flight Technique Analysis	3
AVT 303	Pulse Systems	3
AVT 305	Avionics Laboratory	2
AVT 310	Aircraft Surveillance Systems	3
AVT 312	System Integration	3
AVT 315	Advanced Avionics Laboratory	2
AVT 320	Aircraft Communications Syste	ems 3
AVT 325	Aircraft Navigation and Landin	ng
and the	Systems	3
SS	Upper Level Elective	3
	Upper Level Elective	3
Total Credits 31 o		31 or 33
TOTAL DE	TOTAL DEGREE CREDITS 122	

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

COMMUNICATION THEORY AND SKILLS:

HU: 122, 219, 221, 222.

HUMANITIES:

LOWER LEVEL: HU 140, 141, 145 UPPER LEVEL: HU 300, 305, 310, 320, 325, 330, 335, 341, 345, 399, 499.

SOCIAL SCIENCES:

LOWER LEVEL: EC 200, 210, 211 (EC 200 is not acceptable together with EC 210 or EC 211 or their equivalent), PSY 220, SS 110, 120, 204, 210,..

UPPER LEVEL: EC 310, 312, 315, 420, SS 302, 305, 310 320, 325, 331, 335, 340, 350, 352, 399, 499.

Avionics Engineering Technology Program DEPARTMENT OF TECHNOLOGY

CHAIRMAN P.S. Pierpont PROGRAM COORDINATOR P.S. Pierpont

Avionics Engineering Technology

Bachelor of Science

Avionics Engineering Technology is designed to give the student a solid foundation in mathematics and the natural sciences as well as a broad exposure to technical courses that address the application of scientific and engineering knowledge combined with technical skills in support of engineering activities. The program provides a strong technical background in electronics, applied electronics engineering, applied avionics engineering, applied engineering mechanics, and integrated logistics support required for a wide range of careers in the aviation industry. This program is TAC of ABET accredited and is offered on the Daytona Beach campus only.

Admissions Requirements

Students entering this program should have a basic background in math, physics, and chemistry. College Calculus is the entry-level math course. Students wishing to strengthen their background in math and the basic sciences before enrolling in the prescribed courses should contact the Department Chair for guidance in course selection.

Students should be aware that several courses in each academic year may have prerequisites and/or co-requisites. Check the course description at the back of this catalog before registering for classes to assure requisite sequencing.

DEGREE REQUIREMENTS

The Bachelor of Science in Avionics Engineering Technology requires successful completion of 129 semester hours, as outlined in the following course list. A minimum cumulative grade point average of 2.00 is needed for all required engineering technology courses.

FRESHMAN YEAR

Course	Title	Credits
	Communication Theory and Skills*	3
	Lower Level Humanities*	3
CS 223	Scientific Programming in C	3
DET 111	Engineering Drawing	2
EET 105	Direct and Alternating Current	
	Fundamentals and Circuit Analysis	4
EET 106	Direct and Alternating Current	
	Laboratory	1
EET 205	Microelectronics Fundamentals	100
	and Circuit Analysis	4
EET 206	Microelectronics Laboratory	1
MA 241	Calculus and Analytical Geometry I	4
PS 101	Basic Chemistry	3
Total Cr	edits	28

SOPHOMORE YEAR

Course	Title	Credits
	Communication Theory and Skills*	3
EET 210	Digital Circuit and Systems Analysis	4
EET 211	Digital Circuits Laboratory	1
EET 219	Pulse Circuits Laboratory	1
EET 220	Pulse Components and Circuit	
	Applications	2
EET 226	Microprocessor Systems	3
EET 227	Microprocessor Systems Laboratory	- 1
MA 242	Calculus and Analytical Geometry II	4
MA 245	Applied Differential Equations	3
MET 201	Applied Statics and Dynamics	4
PS 211	Engineering Physics I	4
PS 212	Engineering Physics Laboratory I	1
PS 217	Engineering Physics II	4
PS 218	Engineering Physics Laboratory II	1
Total Cr	edits	36

JUNIOR	YEAR	
Course	Title	Credits
AET 311	Communication Theory and Skills* Lower Level Social Science* Advanced Communications Systems	3
AET 312 AET 313 EET 301 EET 302	Analysis w/Lab Applied Control Systems Analysis Microwave and Radar Systems Analys Linear Systems Analysis Elements of Engineering Design and	5 2 sis 2 3
LET 304	Laboratory Procedures Applied Reliability and Maintainabilit Engineering	y 3
MET 210 MET 211	Applied Thermodynamics Applied Strength of Materials w/Lab	3 4
Total Cre		31
SENIOR	YEAR	-000
Course	Title	Credits
ACET 301	Upper Level Humanities or Social Science* Manufacturing Processes Materials	3
AET 406	and Testing w/Lab Avionics Analog Systems Design	4
AET 407	Considerations w/Lab Avionics Digital Systems Design	4
AET 417	Considerations w/Lab Avionics System Integration and	4
EC LET 413 SS 335 OPEN	Design Elective Integrated Aviation Logistics Support Human Factors Electives	3 3 3 6
Total Cree	dits	33
TOTAL DE	GREE CREDITS	129

Early participation in Intern or Cooperative Education positions is encouraged.

Avionics Technology Program

Associate in Science

DEGREE REQUIREMENTS

The Associate in Science degree in Avionics Technology requires successful completion of 69 semester credit hours as indicated in the following outline.

FRESHMAN YEAR

Course	Title	Credits
	Communication Theory and Skills*	3
	Lower Level Humanities*	3
	Lower Level Social Science*	3

42233333		
CS 223	Scientific Programming in C	3
DET 111	Engineering Drawing	2
EET 105	Direct and Alternating Current	
FIRST TANK	Fundamentals Circuit Analysis	4
EET 106	The second of the second secon	
TITLE DATE	Laboratory	1
EET 205	The state of the s	
EET DOG	Circuit Analysis	4
EET 206		1 4 1 4 -3
EET 210	Digital Circuits and Systems Analysis	4
EET 211	Digital Circuits Laboratory	1
MA 145 PS 103	College Algebra and Trigonometry	4
	Technical Physics	_3
Total Cr	edits	36
SOPHO	MORE YEAR	
Course	Title	Credits
	Communication Theory and Skills*	3
AVT 303	Pulse Systems	3
AVT 305	Avionics Laboratory	2
AVT 310	Aircraft Surveillance Systems	3
AVT 312	Systems Integration	3
AVT 315	Advanced Avionics Laboratory	2
AVT 320	Aircraft Communications Systems	3
AVT 325	Aircraft Navigation and Landing	
The same of the same	Systems	3
EET 215	Electronics Communications Systems	3
EET 216	Electronics Communications Laborator	y 1
EET 219	Pulse Components and Circuit	
TITT OAG	Laboratory	1
EET 220	Pulse Components and Circuit	
TITLE DOC	Applications	3
EET 226	Microprocessor Systems	3
EET 227	Microprocessor Laboratory	1
Total Cre	edits	33
TOTAL D	EGREE CREDITS	69
120703		100000

*Embry-Riddle courses in the general education categories Communication Theory and Skills, Humanities and Social Sciences may be chosen from those listed below, assuming prerequisite requirements are met. Courses from other institutions are acceptable if they fall into these broad categories and are at the level specified above in the Avionics Engineering Technology and Avionics Technology vertical outlines.

COMMUNICATION THEORY AND SKILLS:

HU: 122, 219, 221, 222.

HUMANITIES:

LOWER LEVEL: HU 140, 141, 145 UPPER LEVEL: HU 300-420.

SOCIAL SCIENCES:

LOWER LEVEL: EC 200, 210, 211 (EC 200 is not acceptable together with EC 210 or EC 211 or their equivalent), SS 110, 120, 204, 210, PSY 220.

UPPER LEVEL: EC 310, 312, 315, 420, SS 302, 305, 310, 320, 325, 331, 335, 340, 350, 352, 399, 499.

Aviation Business and Management Programs

Aviation Business Administration Aviation Maintenance Management Management of Technical Operations Aviation Management

DAYTONA BEACH

A. Harraf

PROGRAM COORDINATOR K. Wilson

EXTENDED CAMPUS

CHAIRMAN V. Mitchell

PROGRAM COORDINATOR

V. Mitchell, Aviation Business Administration T.M. Edwards, Aviation Maintenance Management W.F. Herlehy, Management of Technical Operations

Embry-Riddle Aeronautical University, through its Business Administration department at the Daytona Beach campus, is accredited by:

 The Association of Collegiate Business Schools and Programs (ACBSP).

 The Council on Aviation (CAA) under CAA's Aviation Management option.

The department is working with the National Business Aircraft Association (NBAA), in cooperation with the University Aviation Association (UAA) to establish minimum management certification requirements.

The degree programs offered by the Business Administration department meet the needs of the continually changing environment of education and business. The curriculum is designed to provide graduates with knowledge and skills essential to their entry into the workplace and society. Emphasis is placed on communication and quantitative skills, global awareness, social responsibility and ethics, information technology, critical thinking and teamwork, business functional skills, aviation/aerospace industry familiarity and experience, as well as development of an attitude of continual and lifelong learning.

Each degree program offers a unique educational experience for the student and serves as the appropriate foundation for entry into a specific business arena. The curriculum is frequently enriched by colloquia, forums, visiting speakers, and other programs. Classroom work incorporates computer applications, group as well as individual projects and presentations, and provides a blend of theory and applications that prepares students for a variety of positions in the workplace. Cooperative education experiences are encouraged, with faculty assigned to assist students in co-op placement. In addition, elective courses allow students to broaden their general education or pursue specific interests in aviation/aerospace-related topics. Active guidance on the needs of aviation management is provided by the Business Advisory Committee. Department-sponsored tutoring and labs are

also provided.

Students should be aware that several courses in each academic year may require prerequisite subject knowledge and/or class

standing. Check the course descriptions at the back of this catalog before registering for classes to assure appropriate placement.

Aviation Business Administration

Bachelor of Science

DEGREE REQUIREMENTS

The Bachelor of Science degree in Aviation Business Administration requires successful completion of a minimum of 120 credit hours, and is normally completed in eight semesters. Designed for students interested in obtaining a strong business foundation with emphasis on specific aviation applications, the student may select an Area of Concentration in Airport Management, Airline Management, Aviation Marketing Management, International Air Transportation Management, Flight Operations, or General Management. Students should declare their Area of Concentration at the beginning of their Junior year. Students who want to specialize in more than one Area of Concentration may transfer up to 6 credit hours toward the second area of concentration. Students who participate in the Cooperative Education program may substitute up to 6 credit hours, if approved, toward the specified courses required in their Area of Concentration. Not all Areas of Concentration may be offered at all campuses.

Students enrolled in the Army or Air Force ROTC program may substitute MY or AF courses for the open elective courses. The Aviation Business Administration degree is an FAA-approved program.

The state of the s	Hours
GENERAL EDUCATION	36
PROGRAM SUPPORT	12
BUSINESS CORE	48
AREA OF CONCENTRATION	15
OPEN ELECTIVES	_9
TOTAL DEGREE CREDITS	120

GENERAL EDUCATION:

-		
Commu	unication Theory and Skills*	9
Mathen	natics*	6
	ter Science*	3
	l and Life Sciences*- One course must	
	e a lab.	6
At Di	nytona Beach campus, one course	
LLumin	be either chemistry or physics.	
Freial C	ities lower level course	3
	ciences lower level course*	6
Humani	ne course must be economics)	
Total Cr	ities/Social Sciences upper level course	3
		36
PROGI	RAM SUPPORT:	
AS 120	Principles of Aeronautical Science	3
EC 210	Microeconomics OR	
EC 211	Macroeconomics	3
MA 222	The state of the s	
MA 211	the second second second with the second sec	3
MA 320	Decision Math	3 12
Total Cr	edits	12
BUSIN	ESS CORE:	
BA 201	Principles of Management	3
BA 210	Financial Accounting	3
BA 212	Advanced Financial Accounting	
BA 221	Advanced Computer Based Systems	3 3 3
BA 311	Marketing	3
BA 312	Managerial Accounting	
BA 314	Human Resource Management	3
BA 317	Organizational Behavior	3
BA 320	Business Information Systems	3
BA 325 BA 332	Social Responsibility and Ethics	3
BA 335	Corporate Finance I	3
BA 390	International Business Business Law	3
BA 420	Management of Production	3
	and Operations	3
BA 436	Strategic Management	3
EC 315	Managerial Economics	3
		The state of
Total Cre		48
AREAS	OF CONCENTRATION:	
Internation	onal Air Transportation Management:	Part -
EC 420	Economics of Air Transportation	3
BA 426	International Aviation Management.	3
BA 430	International Trade and Regulations	3 6
BA/EC	300-400 Business Electives	6
Total Cre	dits	15

Airport Management:

BA 408 Airport Management

Total Credits Aviation Marketing Management BA 450 Airline Management BA 450 Airline Management BA 450 Airline Management BA 451 Airline Management BA 452 Airline Management BA 453 Airline Marketing BA 453 Airline Marketing BA 453 Airline Marketing BA 450 Airline Airport Marketing BA 451 Airline Marketing BA 452 Airline Management BA 453 Airline Marketing BA 453 Airline Marketing BA 453 Airline Management BA 453 Airline Management BA 513 A eronautics I Flight Lab AS 230 Aeronautics II Flight Lab AS 270 Aeronautics II	BA 412 Airport Planning & Design Standards BA 428 Airport Finance BA/EC 300-400 Business Electives	3 3 6 15	Courses fro fall into the	Sciences may be chosen from those liste uming prerequisite requirements are m om other institutions are acceptable if t ese broad categories and are at the leve	they
BA 410 Arine Management of Air Cargo 3 Arine Management 3 Arine Management 4 Society 5 Arine Management 6 Aric Cargo 8 A 421 Ariport Management 6 Aric Cargo 8 A 421 Ariport Management 6 Aric Cargo 8 A 422 Ariport Management 6 Aric Cargo 8 A 423 Arine Management 6 Aric Cargo 8 A 424 Ariport Management 6 Aric Cargo 8 A 426 Ariport Management 6 Aric Cargo 8 A 427 Management 6 Aric Cargo 8 A 428 Ariport Management 6 Aric Cargo 8 A 429 Ariport Management 6 Aric Cargo 8 A 420 Arine Management 6 Aric Cargo 8 A 420 Arine Management 6 Aric Cargo 8 A 421 Arine Management 6 Aric Cargo 8 A 422 Arine Management 6 Aric Cargo 8 A 423 Arine Management 6 Aric Cargo 8 A 424 Arine Management 6 Aric Cargo 8 A 425 Arine Management 6 Aric Cargo 8 A 426 Arine Management 6 Aric Cargo 8 A 427 Arine Management 6 Arine Management 7 Arine Management 7 Arine Management 7 Arine Management 8 A 490 Arine Management 8 A 490 Arine Management 8 A 490 Arine Management 6 Arine Management 7 Arine Management 8 A 490 Arine Management 8 A	Total Credits	17.00	enactified a	hove in the Aviation business	
BA 410 Management of Air Cargo BA 410 Management of Air Cargo BA 411 Arrine Management of Air Cargo BA 420 General Aviation Marketing BA 440 Strategic Marketing Management of Air Cargo BA 440 Strategic Marketing Management of Air Cargo BA 450 Airline / Airline / Airlor Marketing of Total Credits BA 450 Airline / Airlor Marketing Management of Air Cargo BA 450 Airline / Airlor Marketing Management of Air Cargo BA 450 Airline / Airlor Marketing Management of Air Cargo BA 450 Airline / Airlor Marketing Management of Air Cargo BA 451 Airline / Airlor Marketing Management of Air Cargo BA 402 Airline / Airlor Marketing Management of Air Cargo BA 403 Airlor Management of Air Cargo BA 405 General Aviation Marketing BA 300 Hob Business Electives: EC 420 Economics of Air Transportation BA 331 Transportation Principles BA 410 Management of Air Cargo BA 402 Airport Marketing Management of Air Cargo BA 403 Airport Management of Air Cargo BA 404 Airport Marketing Management of Air Cargo BA 412 Small Business Management of Air Cargo BA 412 Airport Economics of Air Transportation Principles of Management of Air Cargo BA 412 Airport Marketing Management of Malticultural Workforce of Management of Managem	Airline Management: EC 420 Economics of Air Transportation	3	Administra	ation vertical outline. Other courses in	ate
BA 415 Airline Management Ariation Marketing Management: BA 405 General Aviation Marketing BA 495 Strategic Marketing Management BA 495 Aronautics I Strategic Marketing BA/EC 300-400 Business Electives Total Credits Flight Operations: AS 130 Aeronautics I Flight Lab AS 231 Aeronautics I Flight Lab AS 231 Aeronautics II Flight Lab AS 230 Aeronautics II Flight Lab AS 231 Aeronautics II Flight Lab AS 231 Aeronautics II Flight Lab AS 270 Aeronautics II Flight Lab AS 271 Aeronautics III Flight Lab Total Credits Note: See University policies regarding flight training at other institutions General Management Select any five BA/EC 300-400 level courses Total Degree Requirements CACO Economics of Air Transportation BA 308 Public Administration BA 308 Public Administration BA 308 Public Administration BA 308 Airline Management BA 410 Management of Air Cargo BA 412 Airport Management BA 421 Small Business Management BA 421 Small Business Management BA 422 Aviation Insurance BA 423 Airport Economics & Finance BA 424 Alroport Languagement BA 427 Management of Multicultural Workforce BA 428 Airport Economics & Finance BA 428 Airport Economics & Finance BA 429 Arrangement of Multicultural Workforce BA 428 Airport Economics & Finance BA 430 Airline Alargement BA 427 Management of Multicultural Workforce BA 428 Airport Economics & Finance BA 430 Airline Alargement BA 427 Management of Multicultural Workforce BA 428 Airport Economics & Finance BA 430 Airline Alargement BA 429 Management of Multicultural Workforce BA 430 Airline Alargement BA 440 Co-op or Internship Management BA 441 Management of Multicultural Workforce BA 432 Airport Economics & Finance BA 433 Airline Alargement BA 442 Communication Trade and Regulations BA 304 Occommunication Trade and Regulations BA 305 Airline Alargement of Multicultural Workforce BA 405 Communication Theory and Skills, Mathematics, Total Credits Social Sciences HU122, 219, 221, 223, 39, 351-420. HUMANITIES: LOWER LEVEL: HU 130-145, MA140-146, 150-159, 250 UPPER LEVEL: BU 300-420	BA 410 Management of Air Cargo	3	also be use	od with permission of the Chaergrades	100
Total Credits Aviation Marketing Management: BA 495 General Aviation Marketing BA 449 Strategic Marketing Management BA 440 Airline/ Airport Marketing BA 450 Aeronautics I Sa 131 Aeronautics I Flight Lab SA 5230 Aeronautics II A 5231 Aeronautics III A 5231 Aeronautics III A 5271 Aeronautics III Bight Lab SA 5270 Aeronautics III Bight Lab SA 5270 Aeronautics III Bight Lab SA 5270 Aeronautics III Bight Lab SElect any five BA /EC 300-400 level courses SOENTAL SCIENCES: LOWER LEVEL: EC 200-211, SS 110-130, 204, 210, PSY 220. UPPER LEVEL: SS 302-360 MATHEMATICS: BA 120, COMPUTER SCIENCE: BA120, CSOCIAL SCIENCES: LOWER LEVEL: BC 200-211, SS 110-130, 204, 210, PSY 220. UPPER LEVEL: SS 302-360 MATHEMATICS: BA120, CSIO1-114 PHYSICAL AND LIFE SCIENCES: PSI01-109, PS142, PS302, PS 304, PS308, PS309 SURgested Program of Study FRESHMAN YEAR Communication Theory and Skills* SoPHOMORE YEAR Communication Theory and Skills* A 201 Airport Management BA 421 Airport Management BA 422 Airport Planning & Design Standards BA 413 Airline Management BA 424 International Aviation Management BA 425 International Trade and Regulations BA 426 International Trade and Regulations BA 427 Management of Multicultural Workforce BA 428 Airport Economics & Finance BA 428 Airport Economics & Finance BA 429 Strategic Marketing Management BA 420 International Trade and Regulations BA 430 Airline/ Airport Marketing BA 440 Strategic Marketing Management CE/AM Co-op or Internship **Embry-Riddle courses in the general education cate- value of the management of Multicultural Workforce BA 449 Strategic Marketing Management BA 420 Communication Theory and Skills, Mathematics, **SoPHOMORE VEL **COMMORE VEL **LOWER LEVEL: HU 130-145, 140-146, 150-159, 250 **MATHEMATICS: LOWER LEVEL: HU 130-1420 **SOCIAL SCIENCES:			Program C	Oordinator.	
Total Credits Aviation Marketing Management: BA 405 General Aviation Marketing BA 495 Canous Management and Strategic Marketing Management and Strategic Ma			COMMUN	IICATION THEORY AND SKILLS.	
Aviation Marketing Management BA 495 General Aviation Marketing BA 496 Airline / Airport Marketing BA 496 Airline / Airport Marketing BA 450 Airline / Airport Marketing BA 52 30 Aeronautics I Sa 31 Aeronautics II AS 230 Aeronautics II AS 231 Aeronautics III BA 221 Aeronautics III Bight Lab BA 2221 Aeronautics III Bight Lab BA 2221 Aeronautics III Flight Lab BA 222 Aeronautics III Flight Lab BA 223 Aeronautics III Flight Lab BA 224 Aeronautics III Flight Lab BA 225 Aeronautics III Flight Lab BA 226 Economics of Air Transportation BA 308 Public Administration BA 308 Public Administration BA 308 Public Administration BA 331 Transportation Principles BA 408 Airport Management BA 412 Airport Management BA 412 Airport Planning & Design Standards BA 413 Airline Management BA 421 Airport Planning & Design Standards BA 415 Airline Management BA 422 Management of Air Cargo BA 428 Airport Economics & Finance BA 429 International Trade and Regulations BA 430 Airline / Marport Marketing BA 449 Strategic Marketing Management BA 420 Coop or Internation BA 340 Airline / Marketing Management BA 427 Advanced Computer Based Systems BA 439 Airline / Marport Marketing BA 449 Strategic Marketing Management BA 420 Coop or Internation Floory and Skills, Mathematics, "Embry-Rickled courses in the general education cates of Communication Theory and Skills, Mathematics, "Embry-Rickled courses in the general education cates of Communication Theory and Skills, Mathematics, "Embry-Rickled courses in the general education cates of Communication Theory and Sk		15	HU 122	, 219, 221, 222, 319, 351-420.	
BA 405 General Aviation Marketing 3 BA 449 Strategic Marketing Management 3 BA 490 Airline/ Airport Marketing 6 Total Credits 5 15 Flight Operations:	Aviation Marketing Management:		HUMANT	TIES;	
BA 499 Strategic Marketing Management BA 499 Strategic Marketing Management BA 490 Act Communication Theory and Skills, Mathematics, BA 490 Act Propertions: AS 300-400 Business Electives 15	RA 405 General Aviation Marketing	3	LOWER	R LEVEL: HU 130-135, 140-146, 150-159,	250
BA 450 Airline Airport Marketing BA/FC 300-400 Business Electives Total Credits Flight Operations: AS 130 Aeronautics I Flight Lab AS 230 Aeronautics II Flight Lab AS 270 Aeronautics III Flight Lab AS 271 Aeronautics III Flight Lab Total Credits Note: See University policies regarding flight training at other institutions General Management: Select any five BA /EC 300-400 Business Electives: EC 420 Economics of Air Transportation BA 331 Transportation Principles BA 405 Airport Management BA 405 Airport Management BA 410 Management of Air Cargo BA 412 Airport Management BA 411 Small Business Management BA 412 Small Business Management BA 414 Project Management BA 424 Project Management BA 424 Project Management BA 425 International Aviation Management BA 426 International Aviation Management BA 427 Management of Multicultural Workforce BA 428 Airport Economics & Finance BA 430 International Tade and Regulations BA 340 Airline Management BA 426 International Aviation Management BA 427 Management of Multicultural Workforce BA 428 Airport Economics & Finance BA 430 International Tade and Regulations BA 340 Airline Management BA 426 International Aviation Management BA 427 Management of Multicultural Workforce BA 428 Airport Economics & Finance BA 430 International Tade and Regulations BA 340 Airline Management BA 429 Management of Multicultural Workforce BA 430 International Tade and Regulations BA 340 Airline Airport Marketing BA 440 Co-op or Internship *Embry-Riddle courses in the general education cate- sportes of Communication Theory and Skills, Mathematics, **Embry-Riddle courses in the general education cate- sportes of Communication Theory and Skills, Mathematics, **JUNIOR YEAR** LOWER LEVEL: SS 302-360 MATI-19.130, 204, 210, pp. 191-180, 204, 201, 201, 201, 201, 201, 201, 201, 201	BA 449 Strategic Marketing Management	3	UPPER	LEVEL: HU 300-420	
Total Credits Flight Operations: AS 130 Aeronautics I Flight Lab AS 231 Aeronautics IF Flight Lab AS 270 Aeronautics III Flight Lab AS 271 Aeronautics III Flight Lab AS 271 Aeronautics III Flight Lab Total Credits Note: See University policies regarding flight training at other institutions General Management: Select any five BA /EC 300-400 level courses Total Degree Requirements Courses Available as BA300-400 Business Electives. EC 420 Economics of Air Transportation BA 308 Public Administration BA 308 Public Administration BA 308 Public Administration BA 308 Public Administration BA 308 A 17 Inansportation Principles BA 405 General Aviation Marketing BA 406 Air John Management BA 410 Management of Air Cargo BA 412 Airport Planning & Design Standards BA 413 Airline Management BA 414 Maintenance Management BA 415 Airline Management BA 421 Small Business Management BA 422 International Trade and Regulations BA 423 International Trade and Regulations BA 424 Project Management BA 427 Management of Multicultural Workforce BA 428 Airport Economics & Finance BA 430 International Trade and Regulations BA 430 Airline / Airport Marketing BA 449 Strategic Marketing Management CE/AM Co-op or Internship *Embry-Riddle courses in the general education cate- spries of Communication Theory and Skills, Mathematics, **Embry-Riddle courses in the general education cate- spries of Communication Theory and Skills, Mathematics, **JOHNOR YEAR Communication Theory and Skills Mathematics, 30 **Embry-Riddle courses in the general education cate- spries of Communication Theory and Skills, Mathematics, **JOHNOR YEAR Communication Theory and Skills, Mathematics, 31 AS 210 Aeronautics III Ana 120-220, MA140-145, MA241-243 COMPUTER SCYENCE: BA120, CMPUTER SCIENCE: BA120, CMPUTER SCIENCE: BA120, CS101-114 PHYSICAL AND LIFE SCIENCE: BA120, CS101-114 PHYSICAL AND LIFE SCIENCE: BA120, CS101-114 PHYSICAL AND LIFE SCIENCE: BA1210, CS101-114 PHYSICAL AND LIFE SCIENCE: BA120, CS101-114 Physical and Life Science* 31 ACOMPUTE	RA 450 Airline/Airport Marketing	-			
Flight Operations: AS 130 Aeronautics I AS 131 Aeronautics I Flight Lab AS 231 Aeronautics III AS 231 Aeronautics III AS 231 Aeronautics III AS 271 Aeronautics III Flight Lab AS 270 Aeronautics III AS 271 Aeronautics III AS 272 Aeronautics III AS 273 Aeronautics III AS 273 Aeronautics III AS 271 Aeronautics III AS 271 Aeronautics III AS 272 Aeronautics III AS 273 Aeronautics III AS 273 Aeronautics III AS 273 Aeronautics III AS 273 Aeronautics III AS 271 Aeronautics III AS 270 Aeronautics III AS 271 Aeronautics III AS 272 Aeronautics III AS 273 Aeronautics III AS 271 Aeronautics III AS 271 Aeronautics III AS 271 Aeronautics III AS 272 Aeronautics III AS 272 Aeronautics III AS 273 Aeronautics III AS 272 Aeronautics III AS 273 Aeronautics III AS 271 Aeronautics III AS 272 Aeronautics III AS 273 Aeronautics III AS 271 Aeronautics III AS 272 Aeronautics III AS 273 Aeronautics III AS 271 Aeronautics III AS 272 Aeronautics III AS 273 Aeronautics III AS 271 Aeronautics III AS 272 Avaitation Insurance BA 282 Avaitation Insurance BA 283 Public Administration BA 321 Transportation Principles BA 422 Aviation Insurance BA 423 Airjund Aviation Marketing BA 424 Airjund Aviation Marketing BA 425 Airjund Aviation Management BA 426 International Aviation Management BA 427 Management of Multicultural Workforce BA 428 Airjund Aviation Management BA 429 Airjund Aviation Managem	BA/EC 300-400 Business Electives		-		
Flight Operations: AS 130 Aeronautics I 4 AS 131 Aeronautics I Flight Lab 2 AS 230 Aeronautics III 2 AS 270 Aeronautics III 3 AS 271 Aeronautics III Flight Lab 1 Total Credits 15 Note: See University policies regarding flight training at other institutions 15 General Management: Select any five BA/EC 300-400 level courses 15 OPEN ELECTIVES 2 Total Degree Requirements 120 Courses Available as BA300-400 Business Electives: EC 420 Economics of Air Transportation BA 308 Public Administration BA 308 Public Administration BA 317 Transportation Principles BA 422 Aviation Insurance BA 445 General Aviation Marketing BA 419 Management of Air Cargo BA 412 Airport Planning & Design Standards BA 419 Maintenance Management BA 421 Small Business Management BA 422 Israll Business Management BA 423 International Aviation Management BA 424 Project Management BA 425 International Aviation Management BA 426 International Aviation Management BA 427 Management of Multicultural Workforce BA 428 Airport Economics & Finance BA 330 International Trade and Regulations BA 3430 International Trade and Regulations BA 450 Airline/ Airport Marketing BA 4430 International Trade and Regulations BA 3450 Airline/ Airport Marketing BA 4450 Strategic Marketing Management CE/AM Co-op or Internship	Total Credits	13			
AS 130 Aeronautics I Flight Lab 2 AS 230 Aeronautics II Flight Lab 3 AS 271 Aeronautics III Flight Lab 1 Total Credits Note: See University policies regarding flight training at other institutions General Management: Select any five BA/EC 300-400 level courses 15 OPEN ELECTIVES 2 Total Degree Requirements 120 Courses Available as BA300-400 Business Electives: EC 420 Economics of Air Transportation BA 331 Transportation Principles BA 322 Aviation Insurance BA 405 Airport Management BA 410 Management of Air Cargo BA 415 Airline Management BA 411 Management of Air Cargo BA 412 Small Business Management BA 413 Management of Multicultural Workforce BA 424 Project Management BA 427 Management of Multicultural Workforce BA 428 Airport Economics & Finance BA 429 International Aviation Management BA 421 International Trade and Regulations BA 426 Airport Economics & Finance BA 427 Management of Multicultural Workforce BA 428 Airport Economics & Finance BA 429 International Trade and Regulations BA 430 Strategic Marketing Management CE/AM Co-op or Internship *Embry-Riddle courses in the general education cate- sports of Communication Theory and Skills, Mathematics, **International Accounting BA 330 **UNIOR YEAR **JUNIOR YE	Flight Operations:		SS 110)-130, 204, 210,	
AS 230 Aeronautics II Flight Lab 2 3 3 4 271 Aeronautics III Flight Lab 3 3 4 271 Aeronautics III Flight Lab 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AS 130 Aeronautics I	9	PSY 2	20.	
AS 231 Aeronautics II Flight Lab 2 AS 270 Aeronautics III Flight Lab 3 AS 271 Aeronautics III Flight Lab 1 Total Credits 15 Note: See University policies regarding flight training at other institutions General Management: Select any five BA / EC 300-400 level courses 15 OPEN ELECTIVES 2 Total Degree Requirements 120 Courses Available as BA300-400 Business Electives: EC 420 Economics of Air Transportation BA 331 Transportation Principles BA 405 Aviation Insurance BA 405 General Aviation Marketing BA 415 Airjort Management Malticultural Workforce Mathematics Management Management Management Malticultural Workforce Mathematics Management Management Management Management Mathematics Management Man	AS 131 Aeronautics I Flight Lab	3	UPPER	LEVEL: SS 302-360	
AS 271 Aeronautics III Flight Lab Total Credits Note: See University policies regarding flight training at other institutions General Management: Select any five BA/EC 300-400 level courses OPEN ELECTIVES Total Degree Requirements Courses Available as BA300-400 Business Electives: EC 420 Economics of Air Transportation BA 308 Public Administration BA 308 Public Administration BA 308 Airport Anangement BA 410 Management of Air Cargo BA 412 Airport Planning & Design Standards BA 411 Maintenance Management BA 412 Airport Planning & Design Standards BA 413 Airjort Flanning & Design Standards BA 421 Froject Management BA 422 Management of Multicultural Workforce BA 428 Airport Economics & Finance BA 420 International Aviation Management BA 421 Transportation Principles BA 422 Airport Planning & Design Standards BA 423 Airjort Planning & Design Standards BA 426 International Aviation Management BA 427 Management of Multicultural Workforce BA 428 Airport Economics & Finance BA 430 International Trade and Regulations BA 430 International Aviat	AS 230 Aeronautics II		MATHEN	TATICS:	
AS 271 Aeronautics III Flight Lab Total Credits Note: See University policies regarding flight training at other institutions General Management: Select any five BA /EC 300-400 level courses OPEN ELECTIVES Total Degree Requirements 120 Courses Available as BA 300-400 Business Electives: EC 420 Economics of Air Transportation BA 308 Public Administration BA 308 Public Administration BA 322 Aviation Insurance BA 405 General Aviation Marketing BA 410 Management of Air Cargo BA 410 Management of Air Cargo BA 411 Airport Planning & Design Standards BA 412 Airport Planning & Design Standards BA 413 Airline Management BA 421 Project Management BA 421 Project Management BA 422 International Aviation Management BA 423 Airport Economics & Finance BA 426 International Aviation Management BA 427 Management of Multicultural Workforce BA 428 Airport Economics & Finance BA 430 International Trade and Regulations BA 430 International Aviation Management BA 430 International Aviation Management BA 430 Interna	AS 231 Aeronautics II Flight Lab		MA111	-112 MA 120-220, MA140-145, MA241-2	43
Total Credits Note: See University policies regarding flight training at other institutions General Management: Select any five BA/EC 300-400 level courses Total Degree Requirements Courses Available as BA300-400 Business Electives: EC 420 Economics of Air Transportation BA 331 BA 308 Public Administration BA 331 BA 308 Public Administration BA 321 BA 408 Airport Management BA 410 BA 410 BA 410 BA 411 BA 412 BA 421 BA 422 BA 425 BA 424 Project Management BA 421 BA 424 BA 426 BA 427 BA 428 BA 426 BA 427 BA 428 BA 428 Airport Economics & Finance BA 430 BA 428 BA 430 International Trade and Regulations BA 430 B	AS 270 Aeronautics III Eliabt Lab	1			
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BA 428 Airport Economics & Finance BA 428 Airport Economics & Finance BA 430 International Trade and Regulations BA 450 Airline/Airport Marketing BA 449 Strategic Marketing Management CE/AM Co-op or Internship *Embry-Riddle courses in the general education categories of Communication Theory and Skills, Mathematics, government of MA 222 Business Statistics MA 320 Decision Mathematics BA 210 Financial Accounting BA 212 Advanced Financial Accounting BA 320 Business Information Systems JUNIOR YEAR JUNIOR YEAR	BA 426 International Aviation Management	force		Microeconomics	3
BA 430 International Trade and Regulations BA 450 Airline/Airport Marketing BA 450 Strategic Marketing Management CE/AM Co-op or Internship *Embry-Riddle courses in the general education categories of Communication Theory and Skills, Mathematics, **International Trade and Regulations BA 210 Financial Accounting BA 212 Advanced Financial Accounting BA 320 Business Information Systems 3 3 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BA 42/ Management of Multicultural Front	acree.		Business Statistics	3
BA 450 Airline/Airport Marketing BA 449 Strategic Marketing Management CE/AM Co-op or Internship *Embry-Riddle courses in the general education categories of Communication Theory and Skills, Mathematics,	BA 428 Airport Economics & Filance	5		Decision Mathematics	
BA 449 Strategic Marketing Management BA 212 Advanced Financial Accounting BA 320 Business Information Systems *Embry-Riddle courses in the general education categories of Communication Theory and Skills, Mathematics,	PA 450 Airling / Airport Marketing			Financial Accounting	3
*Embry-Riddle courses in the general education cate- gories of Communication Theory and Skills, Mathematics,	RA 449 Strategic Marketine Management			Advanced Financial Accounting	3
*Embry-Riddle courses in the general education cate- gories of Communication Theory and Skills, Mathematics,	CE/AM Co-op or Internship		BA 320	Business Information Systems	30
gories of Communication Theory and Skills, Mathematics, Theory level Humanities	and the property of the concept adu	cation cate-			30
Computer Science, Physical and Life Sciences, Humanities, or Social Sciences* 3	*Embry-Riddle courses in the general edu	Aathematics.	JUNIO	RYEAR	
Computer Science, Physical and Gy-System of Social Sciences	gories of Communication Theory and Skins, is	Humanities,		Upper level Flumanities	3
	Configures Science, engineer and one securiors			or social sciences	(2)

EC 315	Managerial Economics	9
BA 311	Marketing	3
BA 312	Managerial Accounting	3
BA 314	Human Resource Management	3
BA 317	Organizational Behavior	3
BA 332	Corporate Finance	3
BA 335	International Business	3
BA 390	Business Law	3
7700000	Open Elective	3
	open meetire	30
SENIOR	YEAR	30
BA 325	Social Responsibility and Ethics	3
BA 420	Management of Production	9
	and Operations	9
BA 436	Strategic Management	3
5000	Concentration Courses	15
	Open Electives	
	open mecuves	_6
2000		30
Iotal De	gree Credits	120

Aviation Business Administration

Associate in Science

DEGREE REQUIREMENTS

GENERAL EDUCATION

PROGRAM SUPPORT BUSINESS CORE

OPEN ELECTIVI

The Associate in Science degree in
Aviation Business Administration requires
successful completion of 60 credit hours and
is normally completed in four semesters.
The degree provides courses in general education and an introduction to business coupled with some aviation business
applications.

Hours

Total Degree Requirements	60
GENERAL EDUCATION:	
Communication Theory and Skills*	9
Computer Science*	3
Humanities - Lower level course*	3
Mathematics*	6
Physical and Life Sciences*	3
Social Sciences - Lower level course;	
one course must be economics*	6
Total Credits	<u>6</u> 30

PROGRAM SU	PPO	RT:
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AS 120	Principles of Aeronautical Science	3
EC 210	Microeconomics OR	
EC 211	Macroeconomics	3
MA 211	Statistics with Aviation Applications	OR3
MA 222	Business Statistics	3
Total Cre	dits	9

BUSINESS CORE:

BA 201	Principles of Management	3
BA 210	Financial Accounting	3
BA 221	Advanced Computer Based Systems	3
BA/EC	200-300 Business Electives	9
Total Cre	edits	18

OPEN ELECTIVE (The open elective should be a non-Business course.)

Total Degree Requirements

*Embry-Riddle courses in the general education categories of Communication Theory and Skills, Mathematics, Computer Science, Physical and Life Sciences, Humanities, and Social Sciences may be chosen from those listed below, assuming prerequisite requirements are met. Courses from other institutions are acceptable if they fall into these broad categories and are at the level specified above in the Business Administration vertical outline. Other courses may also be used with permission of the Undergraduate Program Coordinator.

COMMUNICATION THEORY AND SKILLS:

HU 122, HU 219, HU 221, 222

MATHEMATICS:

MA 111-112, MA 120-220, MA 140-145,

COMPUTER SCIENCE:

BA 120, CS 101-114

PHYSICAL AND LIFE SCIENCES:

PS 101-109, PS 142, PS 302, PS 304, PS 308, PS 309

HUMANITIES - LOWER LEVEL COURSE:

HU 130-135, HU 140-146, HU 150-159, HU 250

SOCIAL SCIENCES - LOWER LEVEL COURSE:

EC 200-211, PSY 220 SS 110-130, SS 204, SS 210,

Suggested Program of Study

Communication Theory and Skills*	3
Lower level Humanities*	3
Lower level Social Science*	3
Computer Science*	3

30

18

	Mathematics*	6	BUSINESS C		48 126-138
300000	Physical and Life Sciences*	3	Iotal Degree	Requirements	120-130
S 120	Principles of Aeronautical Science	3	DEPT OF T	ECHNOLOGY COURSEW	ORK-
A 201	Principles of Management	3	Tune 147 AN	IT: (available at Daytona B	leach only)
C 211	Macroeconomics	30	Type 147 Au	iation Maintenance Techno	ology
amia	MORENEAR	30		urses (see page 98)	48
OPHO	MORE YEAR	6		OR	
A 210	Communication Theory and Skills*		Type 65 AM	T: (available at Extended C	ampus location
A 210	Financial Accounting Advanced Computer Based Systems	3	AMT 240 Ge	meral Aeronautics and App	olications 3
SA 221 SC 210	Microeconomics	3	AMT 260 Ai	rcraft Electrical Systems Tr	neory 3
MA 222		3	AMT 270 Ai	rframe Structures and App	dications 4
1175 666	Business Electives	3 9	AMT 271 Ai	rframe Systems and Applic	cations 3
	Open Elective	30	AMT 280 Pc	werplant Theory and App	lications 4
	A Part and	30	AMT 281 Ai	rcraft Propulsion Systems	and
Cotal D	egree Credits	60	A	pplications	4
Otal LA	egiee Ciediis		E	ectives: AMT, AS, AV, CS, I	L, FA, BA
Ami	ation Maintenance		34	OR AMT 275 and AMT 285	
101	ution municiance			Total AMT Credits	36
Mas	nagement		44.4	OR Maintenant	o Cartificate
VIII	Bachelor of Science		Credits gran	d Powerplant Maintenance ted to students who posses faintenance Certificate	ss the
			FAA AGEP M	OR	00
DEGR	EE REQUIREMENTS:	-	Avionics:	O.K	
Maint ful co	Bachelor of Science in Aviation enance Management requires su mpletion of both Department of	iccess-	AVT 305 A AVT 310 St	ulse Systems vionics Laboratory urveillance Systems ong Range Navigation Syst	3 2 3 tems 3
Maint ful con Techniand/cemic care 12 eight design posses and/c develor Coope of desthat design As a required As a required Maint Maint	mpletion of both Department of ology (AMT or Avionics) course or FAA A&P Certificate as well a courses. The total degree require 6-140 and is normally completed to ten semesters. This degree is need for students who earn or alrest certification or licenses in airfor powerplant, yet who also wis op an expertise in business. The requirements of the expertise in business are requirements. Students should free in AMT compared with Avionation or Undergraduate Properties of the American Students o	work as acad- ements d in eady rame h to excess uld note re onics. heir aca- gram viation	AVT 305 AVT 310 SAVT 311 LAVT 312 SAVT 315 AVT 320 AVT 325 AVT	vionics Laboratory urveillance Systems ong Range Navigation Syst ystems Integration dvanced Avionics Laborate ircraft Communication Syst ircraft Navigation & Landi ircet & Alternating Curren Fundamentals and Circuit birect & Alternating Curren or Systems ficroelectronics Fundamen ircuit Analysis ficroelectronics Laboratory origital Circuits Laboratory origital Circuits Laboratory electronics Communication electronics Systems culse Circuits Laboratory origital Circuits Laboratory	tems 3 stems 3 stems 3 stems 3 sing Systems 3 t Analysis 4 tt Laboratory 1 tals and 4 s Analysis 4 s Systems 5 s Systems 5 story
Maint ful con Techn and / cemic con are 12 eight design posses and / ce develor coop of destand are quin As a reduin As a redu	enance Management requires sumpletion of both Department of ology (AMT or Avionics) course or FAA A&P Certificate as well a courses. The total degree require 6-140 and is normally completed to ten semesters. This degree is need for students who earn or alrest certification or licenses in airfor powerplant, yet who also wis op an expertise in business. The erequirements of the erequirement of the erequirements of the erequirements of the erequirement of the e	work as acad- ements d in eady rame h to excess uld note re onics. heir aca- gram viation	AVT 305 AVT 310 SAVT 311 LAVT 312 SAVT 315 AVT 320 AVT 325 AVT	vionics Laboratory urveillance Systems ong Range Navigation Syst ystems Integration dvanced Avionics Laborate ircraft Communication Syst ircraft Navigation & Landi ircet & Alternating Curren Fundamentals and Circuit ircet & Alternating Curren ngineering Drawing ficroelectronics Fundamen ircuit Analysis ficroelectronics Laboratory ligital Circuits Laboratory lectronics Communication lectronics Systems Laboratory vulse Components and Circuit Applications dicroprocessor Systems dicroprocessor Systems dicroprocessor Laboratory	tems 3 stems 3 stems 3 stems 3 sing Systems 3 tt Analysis 4 tt Laboratory 1 ttals and 4 s Analysis 4 s Systems 5 s Systems 5 tory
Maint ful con Techn and / cemic co are 12 eight design posses and / ce develor coop of destand As a require As a require As a reduced and Chair Maint approper.	enance Management requires sumpletion of both Department of ology (AMT or Avionics) course or FAA A&P Certificate as well a courses. The total degree require 6-140 and is normally completed to ten semesters. This degree is need for students who earn or alrest certification or licenses in airfor powerplant, yet who also wis op an expertise in business. The erequirements of the erequirement of t	work as acad- ements d in eady rame h to excess uld note re onics. heir aca- gram viation an FAA-	AVT 305 AVT 310 SAVT 311 LAVT 312 SAVT 315 AVT 325 AVT	vionics Laboratory urveillance Systems ong Range Navigation Syst ystems Integration dvanced Avionics Laborate ircraft Communication Syst ircraft Navigation & Landi firect & Alternating Curren Fundamentals and Circuit firect & Alternating Curren ngineering Drawing ficroelectronics Fundamen ircuit Analysis ficroelectronics Laboratory ligital Circuits and Systems ligital Circuits Laboratory lectronics Communication fluste Circuits Laboratory lectronics Systems Laboratory vulse Components and Circuit Applications ficroprocessor Systems ficroprocessor Systems ficroprocessor Laboratory lts LEDUCATION:	tems 3 ory 2 stems 3 ory 2 stems 3 ing Systems 3 t Analysis 4 tt Laboratory 1 tals and 4 s Analysis 4 s Systems 5 ory 2 tals and 4 s Systems 5 ory 5
Maint ful con Techn and / cemic co are 12 eight design posses and / cemic developed full full full full full full full ful	enance Management requires sumpletion of both Department of ology (AMT or Avionics) course or FAA A&P Certificate as well a courses. The total degree require 6-140 and is normally completed to ten semesters. This degree is need for students who earn or alrest certification or licenses in airfor powerplant, yet who also wis op an expertise in business. The erequirements of the erequirement of the erequirements of the erequirements of the erequirement of the e	work as acad- ements d in eady rame h to excess uld note re onics. heir aca- gram viation	AVT 305 AVT 310 SAVT 311 LAVT 312 SAVT 315 AVT 325 AVT	vionics Laboratory urveillance Systems ong Range Navigation Syst ystems Integration dvanced Avionics Laborate ircraft Communication Systems Integration & Landi ircraft Navigation Surren ircuit Analysis ficroelectronics Fundamen ircuit Analysis ficroelectronics Laboratory ingital Circuits Laboratory illectronics Communication illectronics Systems Laboratory illectronics Systems Laboratory illectronics Systems Laboratory illectronics Systems Laboratory illectronics Systems illicroprocessor Systems illicroprocessor Systems illicroprocessor Laboratory its LEDUCATION:	tems 3 stems 3 stems 3 stems 3 sing Systems 3 tt Analysis 4 tt Laboratory 1 ttals and 4 s Analysis 4 s Systems 5 s Systems 5 tory

must in At Dayt	and Life Sciences* - One course clude a lab. ona Beach, one course must be nemistry or physics.	6
	ies Lower level course*	3
Social Sci	ences Lower level courses*;	
	rse must be economics	6
Humanit Total Cre	ies/Social Sciences* - Upper level cou edits	rse <u>3</u> 36
PROGR	AM SUPPORT: (AMT only)	
MA 222	Business Statistics OR	
MA 211	Statistics with Aviation Applications	3
MA 320		3 6
Total Cre	dits	0
BUSINE	ESS CORE:	
BA 201	Principles of Management	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
BA 210	Financial Accounting	3
BA 212	Advanced Financial Accounting	3
BA 221 **		3
BA 311	Marketing	3
BA 312	Managerial Accounting	3
BA 314	Human Resource Management OR	3
BA 317	Organizational Behavior	3
BA 320 **	Business Information Systems	3
BA 324	Aviation Labor Relations	3
BA 325	Social Responsibility and Ethics	3
BA 332	Corporate Finance	3
BA 335+	International Business	3
BA 390 **	Business Law	3
BA 419	Maintenance Management	3
BA 420	Management of Production	
	and Operations	3
BA 422	Life Cycle Analysis for Systems	
	and Programs	3
BA 424*	Project Management	3
EC 315+	Managerial Economics	3
Total Cre	dits	42-48
*Avionic		
**AMT		
		26-150
gories of Computer	Riddle courses in the general educ Communication Theory and Skills, Mar Science, Physical and Life Sciences, H	thematics, umanities,

*Embry-Riddle courses in the general education categories of Communication Theory and Skills, Mathematics, Computer Science, Physical and Life Sciences, Humanities, and Social Sciences may be chosen from those listed below, assuming prerequisite requirements are met. Courses from other institutions are acceptable if they fall into these broad categories and are at the level specified above in the Aviation Maintenance Management vertical outline. Other courses may also be used with permission of the Undergraduate Program Chair.

COMMUNICATION THEORY AND SKILLS:	
HU 122, HU 219, HU 221, 222, HU 319, HU 351-42	0
MATHEMATICS:	

MA 111-112, MA 120-220, MA 140-145, MA 241-243

COMPUTER SCIENCE:

BA 120, CS 101-114

PHYSICAL AND LIFE SCIENCES:

PS 101-109, PS 142, PS 302, PS 304, PS 308, PS 309

HUMANITIES:

- LOWER LEVEL:

HU 130-135, HU 140-146, HU 150-159, HU 250 UPPER LEVEL: HU 300-420,

SOCIAL SCIENCES:

- LOWER LEVEL:

SS 110-130, SS 204, SS 210,, EC 200-211, PSY 220

UPPER LEVEL: SS 302-360

Required For Avionics only: Mathematics: MA 241 and MA 222 7 Computer Science: CS 223 3 Physical Science: PS 101 and PS 103 6

Suggested Program of Study

Courses sponsored by the Department of Technology (AMT or Avionics courses) may be taken prior to taking academic courses or as part of the normal semester's academic program of study. The Department of Technology Undergraduate Program Chair and/or advisor will assist the student in determining the best way to arrange the course schedule. Academic requirements are suggested below:

sugges	teu below.	
AMT:		
Dept. of	Technology-AMT Coursework	36-48
	IAN YEAR	
	Communication Theory and Skills* Lower level Humanities*	3
	Lower level Social Science*	3
	Computer Science*	3
	Mathematics*	6
	Physical and Life Sciences*	3
BA 201	Principles of Management	3
BA 221	Advanced Computer Based Systems	3
EC 210	Microeconomics	30
Total Cre	edits	30
SOPHO	MORE YEAR	
	Communication Theory and Skills*	6

Physical and Life Sciences* 3
BA 210 Financial Accounting 3

BA 212	Advanced Financial Accounting Human Resource Management OR	3	SENIOR YEAR BA 419 Maintenance Management	3
BA 314 BA 317	Organizational Behavior	3	BA 420 Management of Production	
BA 320	Business Information Systems	3 3 3	and Operations	3 3 12
MA 222	Business Statistics	3	BA 422 Life Cycle Analysis for Systems BA 424 Project Management	3
MA 320	Decision Mathematics	27	BA 424 Project Management	12
Total Cre		4/	Total Degree Requirements	129
JUNIOR				
	Upper level Humanities or Social Sciences*	3	Management of Techni	ical
BA 311	Marketing	3	THE RESIDENCE OF THE PROPERTY	
BA 312	Managerial Accounting	3	Operations	
BA 324	Aviation Labor Relations	3	Bachelor of Science	
BA 325	Social Responsibility and Ethics	3		
BA 332	Corporate Finance	3	DEGREE REQUIREMENTS:	
	Business Law	3		
EC 315	Managerial Economics	24	The Bachelor of Science in Manage	ement of
Total Cre		24	Technical Operations requires success	
SENIOR		2	completion of 120 credit hours. Design	ened for
BA 419	Maintenance Management	3	the student who possesses some tech	
BA 420	Management of Production and Operations	3		
BA 422	Life Cycle Analysis for Systems	3	expertise either through previous cou	
Total Cre		9	work, licensing or experience, this de	tid boost
		26-138	provides the student a flexible yet so	
AVIONI	Otto de la Constitución de la Co		ness program. The degree allows a r	
	Technology-Avionics Coursework	50	mum of 15 semester hours earned in	
	AAN YEAR		of technical operations or through Cl	LEP,
LIVESHIV	Communication Theory and Skills*	3	DANTES, or military or industrial ed	ducation
	Lower level Humanities*	3 3 3 7	programs recognized by the America	n
	Lower level Social Science*	3	Council on Education. In addition, co	
	Computer Science*	3		
	Mathematics*		may be granted for aviation-related	ncenses
	Physical and Life Sciences*	3	such as A&P or flight ratings as well	as
BA 201	Principles of Management	2	equivalent supervisory experience.	
EC 210 Microeconomics Total Credits		3 28	Supervisory experience, however, n	nust be
			no less than 5 years in a mid-level pe	osition.
SOPHO	MORE YEAR Communication Theory and Skills*	6		
	Communication Theory and Skills* Physical and Life Sciences*	3	TECHNICAL SPECIALTY	15
BA 210	Financial Accounting	3	GENERAL EDUCATION	36
BA 212	Advanced Financial Accounting	3	PROGRAM SUPPORT	6
Total Cr		15	BUSINESS CORE	33
IUNIOR	YEAR		TECHNICAL MANAGEMENT CORE	12
	Upper level Humanities		SPECIFIED ELECTIVES OPEN ELECTIVES	9
	or Social Sciences*	3	Total Degree Requirements	120
BA 311	Marketing	3	♦Students at Extended Campus may substitu	
BA 312	Managerial Accounting	3	tional specified elective courses and/or open	electives
BA 314	Human Resource Management OR	2	courses.	
BA 317	Organizational Behavior Aviation Labor Relations	3	TECHNICAL SPECIALTY:	15
BA 324 BA 325	Social Responsibility and Ethics	3		-
BA 332	Corporate Finance	3 3 3	GENERAL EDUCATION:	
BA 335	International Business	3 24	Communication Theory & Skills*	9
	edits	24	Communication Theory & Skills* Mathematics*	6

Computer Science* Physical and Life Sciences* - One course must include a lab.		3	Engir	neering			
		6	Engineering Technology Flight				
At D	aytona Beach, one course must be		rugii	OR			
eithe	r chemistry or physics.		Appro	ved Cooperative Education Experience of	or		
Social S	ities* - Lower level course ciences* - Lower level courses;	3	Interns	ship			
one co	urse must be economics	6	Note	: Prerequisite courses, knowledge or c	lass stand		
Human	ities/Social Science* - Upper level course	_3	3 ing may be required for taking upper level				
Total C		36	back o	disciplines. Check the course description of this catalog before registering for class	ons at the		
PROG	RAM SUPPORT:		assure	appropriate placement.	socs to		
EC 210	Microeconomics OR		*Emb	ory-Riddle courses in the general educa	ition cate-		
EC 211 MA 222	Macroeconomics Business Statistics OR	3	Compu	of Communication Theory and Skills, Ma ter Science, Physical and Life Sciences, Hi	thematics,		
	Statistics with Aviation Applications	3	and So	cial Sciences may be chosen from those	listed		
Total Cr	redits	6	below,	assuming prerequisite requirements a	re met.		
BUSIN	ESS CORE:		Course	es from other institutions are acceptable these broad categories and are at the	e if they		
BA 201	Principles of Management	3	specifi	ed above in the Management of Techni	cal		
BA 210	Financial Accounting	3 3 3 3 3	Operat	tions vertical outline. Other courses ma	v also be		
BA 221	Advanced Computer Based Systems	3	Coordi	rith permission of the Undergraduate I	rogram		
BA 311	Marketing	3	12000000				
BA 312	Managerial Accounting	3	HIL	SUNICATION THEORY AND SKILLS: 122, HU 219, HU 221, 222, HU 319, HU 3	251 400		
BA 314 BA 317	Human Resource Management Organizational Behavior	3	MATH	EMATICS:	331-420		
BA 320	Business Information Systems	3		The state of the s			
BA 325	Social Responsibility and Ethics			111-112, MA 120-220, MA 140-145, MA 2 UTER SCIENCE:	41-243		
	in Management	3	The second secon				
BA 335 BA 390	International Business	3	See Control	120, CS 101-114			
Total Cr	Business Law edits	33		CAL AND LIFE SCIENCES:			
	VICAL MANAGEMENT CORE:	33	HUMA	01-109, PS 142, PS 302, PS 304, PS 308, PS NITTES - LOWER LEVEL COURSE:	309		
BA 406		-	HU	130-135, HU 140-146, HU 150-159, HU 25	50		
BA 419	Strategic Management of Tech. Op. Aviation Maintenance Management	3	SOCIAL	SCIENCES - LOWER LEVEL COURSE			
BA 420	The Management of Production			220, SS 110-130, SS 204, SS 210, EC 200-2			
	and Operations	3		NITIES/SOCIAL SCIENCES - UPPER			
BA 424	Project Management in Aviation		COURS		hole I hade		
Total Cre	Operations edits	3 12	HU:	300-420, SS 302-360			
		14		ested Program of Study			
SPECIFIED ELECTIVES:		9		IICAL SPECIALTY	15		
OPEN E	ELECTIVES:	9		MAN YEAR			
		120		Communication Theory and Skills* Lower level Humanities*	3		
	ts at Extended Campus may substitute	addi-		Lower level Social Science*	3		
♦Student	- at the control country of substitute				2		
Studentional spe	ecified elective courses and/or open el	ective		Computer Science*	3		
Studentional speciourses.	ecified elective courses and/or open el	ective		Mathematics*	6		
Studentional speciourses. Courses /	ecified elective courses and/or open el Available as Specified Electives:	ective	RA 201	Mathematics* Physical and Life Sciences*	6 3		
Studentional speciourses. Courses / 00-400 le	ecified elective courses and/or open el Available as Specified Electives: evel courses in the following disciplines:	ective	BA 201 BA 221	Mathematics* Physical and Life Sciences* Principles of Management	6 3 3		
Student sional spectourses. Courses / 00-400 le	Available as Specified Electives: Evel courses in the following disciplines: Administration	ective	BA 201 BA 221 EC 211	Mathematics* Physical and Life Sciences*	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		

SOPHON	MORE YEAR	
	Communication Theory and Skills*	6
	Physical and Life Sciences*	3
EC 210	Microeconomics	3
MA 222	Business Statistics	3
BA 210	Financial Accounting	3
BA 320	Business Information Systems Open Electives	3 3 3 3 3 24
Total Cre	edits	24
JUNIOR	YEAR	
A mention make	Upper level Humanities	
	or Social Sciences*	3
BA 311	Marketing	3
BA 312	Managerial Accounting	3
BA 314	Human Resource Management	3
BA 317	Organizational Behavior	3
BA 335	International Business	3
BA 390	Business Law	3 3 3 3 3 3 3 3 3 3 7 27
	Specified Electives	3
	Open Elective	_3
Total Cre	edits	27
SENIOR	YEAR	
BA 325	Social Responsibility and Ethics	3
BA 406+	Strategic Management	3 3
BA 419	Maintenance Management	. 3
BA 420	Management of Production	
	and Operations	3
BA 424	Project Management	3 6 3 24
	Specified Electives	6
	Open Electives	_3
Total Cre	edits	24
Total De	gree Requirements	120

*A senior level experience emphasizing strategic management and program synthesis may be accomplished by the successful completion of BA406, BA436, or Senior Thesis as determined by the campus MTO Degree Program Coordinator.

Aviation Management

Bachelor of Science

DEGREE REQUIREMENTS:

The Bachelor of Science degree in Aviation Management requires successful completion of a minimum of 120 credit hours, and is normally completed in four semesters, pending total credits transferred into the University. This degree is designed to accommodate the transfer student who has either completed an Associate Degree at an accredited regional

college or university (generally 60 semester credit hours) or a minimum of 60 credit hours which must be comprised of courses from the following broad areas: Communication Skills, Mathematics, Physical Sciences, Computers, Business, Economics, Management, Humanities, and/or Social Sciences. In the business core courses, prerequisites not previously met may be taken from open elective credit hours. The curriculum for the degree provides a sound business foundation in all disciplines of business, enhanced by aviation business applications. Courses include accounting and finance, law, ethics, human resources, production and strategic management.

ASSOCIATE DEGREE CREDIT ** or MINIMU	M
OF 60 CREDIT HOURS IN COURSE WORK	60
BUSINESS CORE	36
AVIATION MANAGEMENT CORE	15
OPEN ELECTIVES	9
Total Degree Requirements	120

 Assumes University general education requirements have been met and no further credit hours are required in this area.

ASSOCIATE DEGREE CREDIT	60
or	

Minimum of 60 credit hours in course work which must be comprised of courses from the following broad areas: Communication Skills, Mathematics, Physical Sciences, Computers, Business, Economics, Management, Humanities, and/or Social Sciences.

BUSINE	ESS CORE	
BA 311	Marketing	3
BA 312	Managerial Accounting	3 3 3 3 3 3 3 3
BA 314	Human Resource Management	3
BA 317	Organizational Behavior	3
BA 320	Business Information Systems	3
BA 325	Social Responsibility and Ethics	3
BA 332	Corporate Finance	3
BA 335	International Business	3
BA 390	Business Law	3
BA 406	Strategic Management of	
	Technical Operations	3.
BA 420	Management of Production	
	and Operations	3
EC 315		- 3
		36
	BA 311 BA 312 BA 314 BA 317 BA 320 BA 325 BA 332 BA 335 BA 390 BA 406 BA 420	BA 312 Managerial Accounting BA 314 Human Resource Management BA 317 Organizational Behavior BA 320 Business Information Systems BA 325 Social Responsibility and Ethics BA 332 Corporate Finance BA 335 International Business BA 390 Business Law BA 406 Strategic Management of Technical Operations BA 420 Management of Production and Operations

Organizational Behavior

Managerial Economics

Business Electives

Open Electives

Business Law

Business Information Systems

BA 317

BA 320

BA 390

EC 315

Total Credits

Five BA3	ON MANAGEMENT CORE 000-400 business elective courses LECTIVES	15 _9	SENIOR BA 311 BA 325 BA 332	YEAR Marketing Social Responsibility and Ethics Corporate Finance	
	Available as BA300-400 Business Elective Aviation Insurance General Aviation Marketing Airport Management Management of Air Cargo Airline Management Aviation Maintenance Management Small Business Management Project Management International Aviation Management Management of Multicultural Workfo Airline/Airport Marketing Coop or Internship Economics of Air Transportation	120 VES:	BA 335 BA 406 BA 420 Total Cre	International Business Strategic Management of Technical Operations Management of Production and Operations Business Electives Open Electives	
ASSOCIAT	Managerial Accounting	60			

333

3

6

6

30

333

3

Civil Engineering Program

PROGRAM COORDINATOR Mark D. Fugler, Ph.D, P.E.

Civil Engineering

Bachelor of Science

Embry-Riddle's Civil Engineering Program is uniquely designed to address the challenges the civil engineer will face when applying their problem-solving skills in the aerospace and aviation transportation arena. The demand for civil engineers trained in this area is strong and rapidly growing. Ever-expanding air travel demands have driven the need for new and improved air transportation facilities. Space exploration initiatives and expanding launch schedules worldwide have fueled a need for civil engineers in the aerospace industry. Embry-Riddle's Civil Engineering Program's curriculum is designed to prepare the student to step into these fields, or any of the myriad of other related civil engineering disciplines, and make an immediate and positive contribution. Civil Engineering students will learn about transportation and airport design, structural engineering, hydraulics and hydrology, civil engineering materials, geotechnical and environmental engineering, and many other aspects of civil engineering fields each from an aviation/aerospace perspective.

Admission Requirements

To enter this program, students should have demonstrated competence in mathematics, physics, and chemistry in high school. They should be prepared to enter Calculus I, having demonstrated proficiency in algebra and trigonometry. Students who wish to strengthen their background in mathematics and physical science should consult the program chair for guidance before enrolling in the prescribed courses.

Students should be aware that several courses in each academic year may have prerequisites and/or co-requisites. Check the course descriptions at the back of this catalog before registering for classes to assure requisite sequencing.

DEGREE REQUIREMENTS

The bachelor of science in Civil Engineering program requires successful completion of a minimum of 131 semester hours. The program may be completed in eight regular semesters, assuming appropriate background and full-time enrollment. A minimum cumulative grade point average of 2.00 is needed for all required CIV, AE, EE, EGR and ES courses, including engineering electives.

includir	MESTER	
	Title	Credits
CIV 101 MA 241 PS 101	Communication Theory and Skills* Social Science Lower Level* Topics in Civil Engineering Calculus and Analytical Geometry I Basic Chemistry	3 3 2 4 3
Total Cre	edits	15
SECON	D SEMESTER	Credits
Course	Title	Creans
CIV 140 EGR 120 MA 242 PS 215 PS 216	Calculus and Analytical Geometry II Physics I Physics Laboratory I	2 2 4 3 1
Total Cr	redits	1.0
THIRD	SEMESTER Title Communication Theory and Skills*	Credits 3
2000	Communication Programmer	mg 3

CIV 310 Intermodal Transportation Engineering

ES 201

Statics

MA 243 PS 208	Calculus and Analytical Geometry III Physics II	
Total C	A T T A A T T A A A A A A A A A A A A A	3 16
		16
Course	'H SEMESTER Title	
ES 204	Communication Theory and Skills* Dynamics	3
ES 206	Fluid Mechanics	3
ES 202	Solid Mechanics	3
MA 345	Differential Equations and	
75-1-10	Matrix Methods	4
Total C		16
	SEMESTER	
Course		Credits
CHILDON	Social Science Lower Level*	3
CIV 307	Civil Engineering Materials w/Lab	4
CIV 316		- 3
ES 305	Thermodynamics	3
	Elective (Engineering)	3
Table	Elective (Math/Physical Science)	_3
Total Cr		19
	SEMESTER	
Course		Credits
	Humanities/Social Science	1.0
	Upper Level*	1
CIV 304	Electives (Engineering)	7
CIV 320	Structural Analysis Soil and Foundation Engineering	3
EE 306	Introduction to Electrical Systems	2
Total Cr		16
	TH SEMESTER	10
Course	Title	Control
Course		Credits
	Humanities/Social Science	
BA	Upper Level* Management Elective Upper Level	3
MA/PS	Math/Physical Science	3
	Elective (200-400)	3
	Electives (Engineering)	9
Total Cre		18
EIGHTE	SEMESTER	1000
Course	Title	Credits
	Humanities/Social Science	Creuits
	Upper Level*	3
CIV 490	The Civil Engineering Profession	1
CIV 460	Senior Design Project	3
	Electives (Engineering)	9
Total Cre		16
TOTAL D	GREE CREDITS	131
TOTAL DI	ORLE CREDITS	131

"Embry-Riddle courses in the general education categories Communication Theory and Stalls, Humanities and Social Sciences may be chosen from those listed below, assuming prerequisite requirements are met. Courses from other institutions are acceptable if they fall into these broad categories and are at the level specified above in the Chvil Engineering vertical outline. Course substitutions may be made upon approval of the program chairman.

COMMUNICATION THEORY AND SKILLS:

HU 122, 219, 221, 222, 315, 319, 351, 355, 360, 361, 362, 410, 420.

HUMANITIES:

LOWER LEVEL: HU 130**, 135**, 140-145, 150**, 151**, 153**, 157**, 159**, 250.
**Must not be the student's native language UPPER LEVEL: HU 300, 305, 310, 320, 325, 330, 335, 341, 345, 399, 499.

SOCIAL SCIENCES:

LOWER LEVEL: EC 200, 210, 211 (EC 200 is not acceptable together with EC 210 or EC 211 or their equivalent)
PSY 220,
SS 110, 120, 204, 210.
UPPER LEVEL: EC 310, 312, 315, 420, SS 302, 305, 310, 320, 325, 331, 335, 340, 350, 352, 399, 499.

ELECTIVES: CIVIL ENGINEERING

Students must choose a minimum of 13 credit hours from Group 2.

ENGINEERING TOPICS ELECTIVES (GROUP 1)

Course	Title	Credits
AE 350	Project Engineering	3
AE 425	Aircraft Acoustics and Noise Control	3
CIV 315	Airport Appurtenances	2
CIV 330	Computer Applications in	
	Transportation	2
CIV 340	Construction Engineering	3
CIV 355	Social Factors in Engineering	2
CIV-380	Federal Aviation Regulations/	
	Environmental Impact	3
CIV 199,		
299, 399	Directed Topics in Civil Engineering	1-3
CIV 405	Atmospheric Turbulence	
	and Dispersion	2
77		

ENGINEERING DESIGN ELECTIVES (GROUP 2)

Course	Title	Credits
CIV 321	Hydrology and Stormwater	
	Management	3
CIV 323	Project Estimating	3
CIV 407	Design of Civil Engineering	
	Structures	3
CIV 408	Design of Portland Cement Mixtures	3
CIV 420	Foundation Analysis and Design	3
CIV 426	Architectural Acoustics	3
CIV 445	Airport Pavement Design	3
CIV 446	Pavement Performance Evaluation	3 3 3 3
CIV 447	Airport Design	3
CIV 499	Directed Design Project	1-3

Computer Engineering Program

DAYTONA BEACH

CHAIRMAN

I. Hirmanpour

PROGRAM COORDINATOR
A. Kornecki

PRESCOTT CAMPUS

CHAIRMAN R. Bellem

PROGRAM CHAIRMAN F. Whetten

Computer Engineering

Bachelor of Science

The bi-located program offering the Bachelor of Science degree in Computer Engineering provides the student with the opportunity to acquire a broad background in computing machinery: programming languages, circuit theory, computer design, telecommunication systems, embedded control systems, real-time systems, and software engineering. The student also gains specialization in avionics appropriate for entry-level engineering positions in the aerospace industry. The curriculum includes courses in general education, computer science, software engineering, electrical engineering, and the capstone sequence of senior design classes.

This added emphasis in avionics, real-time embedded control systems, and hardware/software interfaces places the ERAU Computer Engineering program in a unique position to increase employment opportunities after graduation. In addition, the distributed nature of the program (between the campuses of ERAU) is designed to prepare students to work as part of a dis-

tributed team on the development of complex systems including both software and hardware. It allows the student opportunities to build expertise with remote computing, workgroup software, and telecommunications systems. Many of the upper level computer engineering classes shall be delivered in a distance education paradigm from either the Daytona Beach (DB) or Prescott (PR) campus (see the vertical outline for the bi-located courses).

DEGREE REQUIREMENTS

The Bachelor of Science in Computer Engineering can be earned in eight semesters assuming appropriate background and fulltime enrollment. Successful completion of a minimum of 128 credit hours is required.

To enter this program, students should have demonstrated a competence in mathematics, physics, and chemistry in high school. They should be prepared to enter Calculus and Analytical Geometry I. They should have

demonstrated proficiency in algebra and trigonometry. Students can prepare themselves for this program, if required, by taking College Algebra and/or Trigonometry at Embry-Riddle prior to taking MA 241, Calculus and Analytical Geometry I.

Student should be aware that several courses in each academic year may have prerequisites and/or co-requisites. Check the course descriptions at the back of this catalog before registering for classes to assure requisite sequencing

FRES	HMAN	YEAR
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Course	Title	Credits
	Communication Theory and Skills*	3
	Lower Level Social Sciences*	3
	Lower Level Humanities*	3
CEC 100	Introduction to Computer	700
	Engineering	2
CS 125	Computer Science 1	4
CS 222	Discrete Math	3
CS 225	Computer Science II	4
MA 241	Calculus and Analytical Geometry I	4
MA 242 HU/SS	Calculus and Analytical Geometry II	4
BA	General Education Requirement	3
Total Cr	edits	33
CODILO	MODELELD	

SOPHOMORE YEAR

SOLIIO	MOKE LEAK	
Course	Title	Credits
CEC 220	Digital Circuit Design	3
CEC 222	Digital Circuit Design Laboratory	1
CEC 320	Microprocessor Systems	3
CEC 322	Microprocessor Systems Laboratory	1
CS 344	C and UNIX	3
HU 219	Speech	3
HU 221	Technical Report Writing	3
MA 345	Differential Equations and Matrix	
	Methods	4
PS 211	Engineering Physics I	4
PS 212	Engineering Physics I with Lab	1
PS 217	Engineering Physics II	4
PS 218	Engineering Physics II with Lab	1
Total Cre	dits	31
****	A COLUMN TO THE PARTY OF THE PA	

JUNIOR YEAR

Course	Title	Credits
	Upper Level Humanities or	
	Social Sciences*	3
	Upper Level Humanities*	3

CS 450* EE 223 EE 224 EE 300* EE 301 MA 412 SE 300	Distance Technology Real Time Systems Linear Circuit Analysis Electrical Engineering Laboratory I Linear Circuits Analysis Electrical Engineering Laboratory II Probability and Statistics Software Engineering Technical Elective Open Elective	3 3 3 1 3 1 3 4 3 3	
Total Cre	edits	33	

SENIOR YEAR

TO ALL THE SPEE	5 Aug 2.55	
Course		Credits
CEC 420+	Computer Systems Design I	3
CEC 421*	Computer Systems Design II	3
CS 470+	And the second s	3 3 1
EE 303+	Signals and Filters	3
EE 401+	Control Systems Analysis and Design	3
EE 402	Control Systems Laboratory	1
	Technical Electives	9
	Open Electives	_6
Total Cre	dits	31
TOTAL DE	GREE CREDITS	128
*Course	s may be bi-located.	

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

COMMUNICATION THEORY AND SKILLS: HU 122, 143, 219, 221, 222, 315, 319, 351, 355, 360, 361, 362, 410, 420.

HUMANITIES:

LOWER LEVEL: HU 140, 141, 142, 144, 250. UPPER LEVEL: HU 300, 305, 310, 320, 325, 330, 335, 341, 345, 399, 499.

SOCIAL SCIENCES:

LOWER LEVEL: EC 200, 210, 211 (EC 200 is not acceptable together with EC 210 or EC 211 or their equivalent), PSY 220 SS 110, 120, 204, 210,

UPPER LEVEL: EC 310, 312, 315, 420, SS 302, 305, 310, 320, 325, 331, 335, 340, 350, 352, 360, 399, 499.

Computer Science Program

CHAIRMAN I. Hirmanpour

Computer Science

Bachelor of Science

The curriculum for the Bachelor of Science degree in Computer Science includes courses in software development, computer organization, database systems, graphics, simulation, artificial intelligence, real-time systems, and software engineering. The program provides a blend of theory and applications that prepares students for a variety of computer science positions in scientific and business fields, and lays the foundation for graduate studies in computer science and software engineering. Upper-level courses involve students in team projects related to realistic aviation/aerospace applications. The elective courses in the program let students broaden their general education or pursue specific interests in aviation or aerospace technology.

DEGREE REQUIREMENTS

The Bachelor of Science degree can be earned in eight semesters assuming appropriate background and full-time enrollment. Successful completion of a minimum of 126 credit hours is required.

Students entering this program are expected to have completed a basic typing or word-processing course. Those who have not should enroll in CS 101, Introduction to Keyboard Operations, during their first semester of attendance. Students should have demonstrated a competence in mathematics

and science (preferably in physics). They should be prepared to enter Calculus I, having demonstrated proficiency in algebra and trigonometry. Students can prepare for this program by taking MA 140 College Algebra and MA 142 Trigonometry prior to taking MA 241. For those students who have not taken physics in high school, it is recommended that PS 103 Technical Physics I be taken prior to PS 211. For those students who have not taken a course in computer programming in high school, it is strongly recommended that CS 118, Fundamentals of Computer Programming, be taken before CS 125.

The Computer Science program is designed to adhere to the ACM/IEEE Curriculum 91. The program is designed to prepare students to work as part of a team on the development of software systems. Software engineering concepts are integrated through the curriculum. The curriculum includes courses in general education, aviation foundation, and computing. The latter is divided into computing fundamentals, advanced concepts, applied computing, and senior design.

Students should be aware that several courses in each academic year may have prerequisites and/or co-requisites. Check the course descriptions at the back of this catalog before registering for classes to assure requi-

site sequencing.

FRESH	MAN YEAR		SENIO	R YEAR	
Course	Title	Credits	Course	Title	Credits
CS 222 CS 225 MA 241	Calculus and Analytical Geometry I Calculus and Analytical Geometry II	3 3 3 2 4 3 4 4 4 4 3 3	AS/AT CS/SE/ CEC CS 450 CS 470 SE 450 OPEN Total Cr	Upper Level Humanities or Social Sciences* Elective Elective (300/400 Level) Real-Time Systems Computer Architecture Software Team Project Elective edits EGREE CREDITS	6 6 3 3 3 3 3
SOPHO	MORE YEAR				126
	Title		*Emb	ry-Riddle courses in the genera	I education cate
CEC 220 CEC 222 CEC 320 CEC 322	Communication Theory and Skills* Lower Level Humanities* Digital Circuit Design Digital Circuit Design Laboratory Microprocessor Systems Microprocessor Systems Laboratory Data Structures and Algorithms Applied Differential Equations Engineering Physics I Engineering Physics Laboratory I Engineering Physics II Engineering Physics Laboratory II edits	Credits 3 3 3 1 3 1 3 4 1 4 1 30	Social Sci assuming from oth these bro above in COMMU HU 122, HUMAN LOWER 341, 345 SOCIAL LOWER accepta	LEVEL: HU 140, 141, 142, 144, 1 LEVEL: HU 300, 305, 310, 320, 32 SCIENCES: LEVEL: EC 200, 210, 211 (EC 200 ble together with EC 210 or EC 2	e listed below, met. Courses they fall into rel specified outline. LLS: 45, 250. 25, 330, 335,
Course	32.0057X	0.11	their eq	uivalent),	
Course	Title	Credits	PSY 220 SS 110	120, 204, 210,	
	Communication Theory and Skills* Lower Level Social Sciences* Upper Level Humanities or Social Science*	3 3	UPPER	LEVEL: EC 310, 312, 315, 420, SS 325, 331, 335, 340, 350, 352, 360.	302, 305,
CS 317	Files and Database Systems	3			
CS 321 CS 332	Advanced Programming Practices Organization of Programming	2			
CS 420	Languages Operating Systems	3			
SE 300 SE 310	Software Engineering Analysis and Design of	4			
	Software Systems	3			
MA 412 OPEN	Probability and Statistics	3			
Total Cre	Elective	3			
total Cre	uits	33			

Engineering Physics Program DEPARTMENT OF PHYSICAL SCIENCES

CHAIRMAN J.J. Olivero PROGRAM COORDINATOR H.E. Palmer

Engineering Physics

Bachelor of Science

The Engineering Physics degree program is administered by the Physical Sciences

Department.

The Bachelor of Science in Engineering Physics, offered only on the Daytona Beach campus, is designed to produce graduates who can operate at the interface between scientists and design engineers. Combining the skills of engineering and applied physics, this program focuses on the scientific challenges and planning associated with the operations and research related to the near-earth space environment. Because of the strong emphasis on fundamentals, the Engineering Physics program provides not only an excellent stepping stone into the space program, but also the flexibility to enter a broad variety of engineering applications and graduate programs.

Admission Requirements

To enter this program, students must have completed four years of high school science and mathematics, demonstrating a high level of competency. Successful candidates for this program will be prepared to enter Calculus I and Chemistry for Engineers.

DEGREE REQUIREMENTS

The Bachelor of Science in Engineering Physics degree program requires 136 credit hours. The program can be completed in eight semesters and one Summer term. The courses necessary to earn this degree are listed below.

Students should be aware that several courses in each academic year may have prerequisites and/or co-requisites. Check the course descriptions at the back of this catalog before registering for classes to assure requisite sequencing.

FRESHMAN YEAR

Course	Title	Credits
	Communication Theory and Skills*	6
	Lower Level Humanities*	3
	Lower Level Social Science*	3
DET 111	Engineering Drawing	2
MA 241	Calculus and Analytical Geometry I	4
MA 242	Calculus and Analytical Geometry II	4
PS 109	Current Topics in Space Sciences	1
PS 140	Chemistry for Engineers	4
PS 141	Chemistry for Engineers Laboratory	1
PS 215	Physics I	3
PS 216	Physics Laboratory I	1
Total Cr	edits	32

SOPHOMORE YEAR

Course	Title	Credits
	Communication Theory and Skills*	3
	Humanities Elective	3
CS 223	Scientific Programming in C	3
ES 201	Statics	3
ES 202	Solid Mechanics	3
ES 204	Dynamics	3
MA 243	Calculus and Analytical Geometry III	4
MA 345	Differential Equations and	
	Matrix Methods	4
PS 208	Physics II	3
PS 219	Physics III	3

PS 220 PS 290+	Physics Laboratory III Physics Laboratory Practicum	1 0
Total Cr	edits	33

. May be taken in the fourth or fifth semester.

IUNIOR YEAR

Course	Title	Credits
EP 320	Electro Optical Engineering	3
EP 393	Space Systems Engineering I	2
EP 394	Space Systems Engineering II	3
EP 396	Introduction to Design I	1
EP 397	Introduction to Design II	1
ES 206	Fluid Mechanics	3
ES 305	Thermodynamics	3
ES 402	Electrical Engineering with Laboratory	
MA 441	Advanced Engineering Mathematics I	3
MA 442	Advanced Engineering Mathematics I	1 3
PS 303	Modern Physics	3
PS 305	Modern Physics Laboratory	1
PS 320	Classical Mechanics	3
Total Cr	edits	32

SUMMER SESSION

(MUST be taken before seventh semester)

Course	Title	Credits
ES 307	Social Science Elective Engineering Materials Science	3
(700,500)	with Lab	3
	Open/Design Elective**	3
Total Cr	edits	9

** At least one design elective must be included in the program

SENIOR YEAR

Course	Title	Credits
	Upper Level Social Sciences*	3
	Upper Level Humanities Elective	3
AE/EP	Open/Design Elective	3
EP 391	Microcomputers & Electronic	
	Instrumentation	3
EP 410	Space Physics	3
EP 440	Engineering Electricity and	
	Magnetism	3
EP 455	Quantum Physics	3
EP 496	Design Senior Project I	2
EP 497	Senior Design Project II	3
	Machine Shop Laboratory	1
THICK BOTT	Open Elective	3
THE		20
Total Cre	edits	30
TOTAL D	EGREE CREDITS	136

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

COMMUNICATION THEORY AND SKILLS:

HU: 122, 143, 219, 221, 222, 315, 319, 351, 355, 360, 361, 362, 410, 420.

HUMANITIES:

LOWER LEVEL: HU 140, 141 UPPER LEVEL: HU 300, 305, 310, 320, 325, 330, 335, 341, 345.

SOCIAL SCIENCES:

LOWER LEVEL: EC 200, PSY 220, SS 110, 120, 204, 210, UPPER LEVEL: SS 302, 305, 310, 320, 325, 331, 335, 340, 350, 352, 360.

DESIGN ELECTIVES:

AE 301, 302, 304, 309, 350, 404, 430, EP 420, 492, 493, PS 401.

Students may take other AE and HU/SS courses with the approval of the department chair/program coordinator.

Professional Aeronautics Program (Non-Traditional Students)

Associate in Science Bachelor of Science

DAYTONA BEACH

PROGRAM COORDINATOR:
P. Rounseville

The Professional Aeronautics degree program was conceived and developed specifically for people who have already established and progressed in an aviation career. The curriculum is designed to build on the knowledge and skills acquired through training and experience in one of the many aviation occupations. The combination of aviation experience and required and elective courses in aeronautical science, management, computer science, economics, communications, humanities, social science, mathematics, and physical science prepares graduates for career growth and increased responsibility.

SPECIAL ADMISSION REQUIREMENTS

Admission to the Professional Aeronautics program is reserved for persons who can document achievement of a verifiable level of competence in an aviation occupation.

AVIATION OCCUPATIONS

Many aviation occupations have been approved as eligible for admission to Professional Aeronautics. The major categories of eligible aviation occupations include aircraft crew members, air traffic control, aviation maintenance and manufacturing, avionics and electronics, ground support services, safety, training, and weather.

EXTENDED CAMPUS

PROGRAM CHAIRMAN: T.M. Edwards

AERONAUTICAL TECHNOLOGY CREDIT

Persons who qualify for admission to, and matriculate in Professional Aeronautics are eligible for credit for prior learning, labeled aeronautical technology credit. Training and experience in closely related occupations may be combined. The number of aeronautical technology credits granted is determined by an evaluation of professional credentials and qualifications that may include FAA certificates; completion of formal technical schools; level of responsibility attained; and evidence of knowledge acquired and level of competence achieved in the aviation occupation.

The maximum amount of aeronautical technology credit granted for previous aviation learning is 36 semester hours.

Aeronautical technology credits are applicable only in Professional Aeronautics and are not transferable to any other Embry-Riddle degree program. The credit granted encompasses the previous aviation learning acquired from all training and experience related to the occupations field that established the student's eligibility for Professional Aeronautics. Other University advanced standing policies are not applicable to the prior aviation learning used to qualify for Professional Aeronautics.

DUPLICATE CREDIT

Many Embry-Riddle courses are designed to teach the same skills and knowledge that Professional Aeronautics students have acquired through experience and training. Students who complete courses in the same aviation specialty for which they were granted aeronautical technology credit would be duplicating coverage of the subject matter. Credit for completion of such courses will not be applied to degree requirements.

EVIDENCE OF PRIOR AVIATION LEARNING

Just as official transcripts are required to transfer credit from one university to another, original or authenticated documentation of prior learning from professional training and experience must be presented to qualify for admission to Professional Aeronautics and the award of aeronautical technology credit. Documentary evidence must be from objective third-party sources and clearly describe the applicant's professional training, duties, and achievements in detail.

DEGREE REQUIREMENTS

Bachelor of Science in Professional Aeronautics

The Bachelor of Science degree requires 126 credit hours, including the aeronautical technology credit granted for prior aviation learning. Using each student's aviation speciality as a foundation, the curriculum requires courses in communications, computer science, humanities, mathematics, and physical sciences to provide the basic academic education found in every Embry-Riddle degree program. The remaining component of the curriculum lets students select courses that fit the career path they have planned.

Associate in Science in Professional Aeronautics

The Associate in Science in Professional

Aeronautics requires a minimum of 63 credit hours, including the aeronautical technology credit granted for previous learning from professional aviation training and experience.

The degree programs offered at the resident centers have always been popular with people who repair and maintain aircraft. Frequently, these highly skilled specialists are thoroughly trained in one technical area, but lack exposure to other aspects of airframe and powerplant maintenance and underlying theory. The Type 65 Aviation Maintenance Technology series of courses was developed at Embry-Riddle to expand the knowledge of experienced, but unlicensed, aircraft maintenance personnel. Completion of the Type 65 courses is not a factor in the FAA's determination of eligibility to take the airframe and/or powerplant examinations.

The courses provide information about a wide variety of problems, considerations, and practices involved in maintaining an aircraft or fleet of aircraft in airworthy condition. The courses establish a core of knowledge as a base for professional advancement in technical and managerial careers in aviation maintenance. The Type 65 AMT courses also serve as a source of valuable information for the many aviation professionals whose work is related to the operation of aircraft, although perhaps not directly involved in aircraft maintenance. Advanced standing credit is granted for appropriate Type 65 AMT courses to students who possess Federal Aviation Administration Airframe and/or Powerplant Certificates. The Type 65 courses are listed elsewhere in the catalog and also with the degree programs to which they apply.

Students with aviation maintenance backgrounds who want to take the six Type 65 Aviation Maintenance Technology courses totalling 21 credits may adjust the ASsociate in Science curriculum in the following manner:

- Delete the curriculum requirement for AS 405.
- Use AMT 271 and AMT 281 as specified electives.
- 3. Use AMT 240, AMT 260, AMT 270, and AMT 280 as open electives.

These adjustments apply only to the Associate in Science and are not transferable to the Bachelor of Science in Professional Aeronautics curriculum. All of the credits completed using the adjustments and applied to the requirements of the Associate in Science may not fit within the minimum credits required for the Bachelor of Science.

The Type 65 courses are for those who do not possess the FAA Airframe and/or Powerplant Certificate. Students who possess the Airframe OR Powerplant Certificate may take the Type 65 courses that pertain to the certificate they do not possess.

The adjusted curriculum requires 75 credit hours to complete the Associate in Science.

Professional Aeronautics Curriculum

The curriculum to be followed by each student depends on the amount of aeronautical technology credit granted and whether the objective is the associate of bachelors' degree. The column of numbers on the right specifies the requirements for the Bachelor of Science.

the req	uirements for the Bache	elor o	r Scienc	
CURRIC	CULUM	A.S.	B.S.	
	itical Technology Credit			
(Maximu		18	36	
	itical Science			
AS 254	Aviation Legislation	3	3	
	Aviation Law	3	3	
Commu	nication Theory and Skills	9	9	
	ities/Social Sciences*			
	Lower Level Humanities	3	3	
	Upper Level Humanities			
	or Social Sciences	3	3	
	Lower Level Social Sciences	3	3	
Comput	ter Science/Mathematics			
CS 109	Introduction to Computers			
	and Applications OR	3	3	
BA 120	Introduction to Computer			
	Based Systems	3	3	
MA 111	College Math for Aviation I	3	3	
MA 112	College Math for Aviation II	OR		
MA 320		3	3	
MA 211	Statistics with Aviation			
	Applications OR			
MA 222	Business Statistics	3	3	
MA 222		3	3	

Physical Sciences

Physical science, chemistry, physics, earth science, astronomy, geology, biology, zoology, or physiology courses. One course must include a lab.

Econom	ics/Management		
EC 210+	Microeconomics	3	3
EC 211	Macroeconomics	3	3
BA 201	Principles of Management	3	3
BA 210	Financial Accounting I		3
	d Electives (select from the	list on	the follow-
Open E	lectives (any discipline)	3	3
TOTAL D	DEGREE CREDITS	63	126

 Either EC 210 or EC 211 satisfies the requirements of the associate degree curriculum.

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

COMMUNICATION THEORY AND SKILLS:

HU 122, 143, 219, 221, 222

HUMANITIES:

LOWER LEVEL: 100 - 200 level UPPER LEVEL: 300 - 400 level

SOCIAL SCIENCES:

LOWER LEVEL: 100 - 200 level UPPER LEVEL: 300 - 400 level

SPECIFIED ELECTIVES:

AS 305*, AS 309*, AS 310*, AS 311*, AS 340*, AS 352*, AS 357, AS 402*, AS 409, AS 410*, AS 412;

AT 363*, AT 365*, AT 462*, AT 464*

BA 308, BA 311, BA 312, BA 314, BA 317, BA 320, BA 322, BA 324, BA 325, BA 331, BA 332, BA 390, BA 405, BA 408, BA 410, BA 415, BA 419, BA 420*, BA 421*, BA 425*, BA 426*, BA 427*, BA 428*, BA 433*;

EC 315, EC 410

SF 320, SF 330, SF 335, SF 345, SF 435, SF 445.

*These specified electives are offered only on the

Daytona Beach Campus.

Dependent on the amount of upper-level Aeronautical Technology credit applied, some of the open or humanities/social science electives in the B.S. degree may have to be 300-400 level courses to satisfy the graduation requirement of 40 credits of upper-level courses.

Cooperative Education credits may be used as open electives; however, assignments may not be in the student's occupational specialty.

Applied Experimental Psychology/Human Factors Program

DEPARTMENT OF HUMAN FACTORS AND SYSTEMS

Applied Experimental Psychology/Human Factors Bachelor of Science

DEPARTMENT CHAIR
D. J. Garland

The Bachelor of Science degree in Applied Experimental Psychology emphasizes human factors psychology. The program seeks to develop a student with the capacity to design, conduct, and apply human factors research to the design of simple and complex systems. The goal of the program is to educate and graduate professionals who are equipped for employment in industry and government as human factors specialists, or to continue their education in graduate school.

Applied Experimental Psychology is an applied discipline which develops knowledge concerning the abilities and limitations of humans to sense, store, process information, and to act. This knowledge is applied to the design, use, and maintenance of human/machine systems. Depending on its goals, the system is then optimized with respect to human performance. The environmental factors affecting system performance are recognized as important and are considered systematically. When relevant data are not available, it must be uncovered through research efforts. This requires considerable skill in experimental design and quantitative methodology. Students will receive training in the content and techniques of human factors including statistical and quantitative procedures, experimental design, survey methods, computer techniques, and other research methodologies.

DEGREE REQUIREMENTS

The Bachelor of Science in Applied Experimental Psychology/Human Factors can be earned in eight semesters assuming appropriate background and full-time enrollment. Successful completion of a minimum of 120 credit hours is required.

Students are encouraged to choose an area of specialization and/or a minor field of study. Specializations are available in human-computer interaction, human-machine-interaction, human performance and information processing, simulation and training, human factors and safety or other areas of interest with the department's authorization. In addition, there are numerous minor fields of study to choose from in order to orient the degree program to the student's needs.

Students will be required to have an applied practicum experience. This requirement may be fulfilled in several ways including, Co-Ops, Internships, or working on an oncampus research team. Practicums provide opportunities to gain practical experience in "real world" settings. A practicum experience is highly regarded by employers and increases the students employment potential once they have obtained their degree. Typically, students will engage in practica experience activities toward the end of the degree program so that students can take maximum advantage of their undergraduate experience.

GENERAL EDUCATION

Courses	Credits
Communication Theory and Skills	9
Mathematics	6 3
Computer Science	3
Physical and Life Sciences	
(one course must include a laboratory)	6
Humanities lower level	6 6
Social Sciences lower level	6
HU/SS/PSY 300-400 level	3
Total Credits	36

Embry-Riddle courses in general education may be chosen from those listed below, assuming prerequisites are met. Courses from other institutions are acceptable if they fall into these broad categories.

COMMUNICATION THEORY AND SKILLS:

HU 122, 143, 219, 221, 222, 319, 351 - 420

MATHEMATICS:

MA 106, 111, 112, 140, 142, 145, 211, 222, 241, 242, 243

COMPUTER SCIENCE:

CS 101 - 118, BA 120

PHYSICAL AND LIFE SCIENCES:

PS 101 - 109, 142, 302, 304, 308, 309

HUMANITIES:

LOWER LEVEL: HU 140s series, 250 UPPER LEVEL: 300 - 315, 320 - 345

SOCIAL SCIENCES:

LOWER LEVEL: PSY 220 (required) and 3 credits from the following: EC 200 - 211, SS 110 - 130, 204, 210. UPPER LEVEL: PSY 300 - 405, HF 300, SS 302 - 360.

CORE REQUIREMENTS

ADVANCED COMMUNICATION

(6 credit hours from below. These courses are in addition to those taken as General Education) HU 122 OR 222, 319, 351 - 420 (Other courses with approval of advisor)

COMPUTER SCIENCE/MATHEMATICS

(6 credit hours from MA or CS courses listed below. These courses are in addition to those taken as General Education) MA 111 - 143 (other courses with approval of advisor)

OR CS 101 - 118, 200 - 400 level. BA 120, 221

(other courses with approval of advisor)

PSYCHO	LOGY AND HUMAN FACTORS	
Course	Title	Credits
PSY 225	Research Analysis in Psychology	3
PSY 300	Research Design in Psychology	3 3 3
PSY 305	Experimental Psychology	3
PSY 310	Sensation and Perception	3
PSY 315	Cognitive Psychology	
PSY 335	Physiological Psychology	3
HF 300	Human Factors I: Principles and	- 3
	Fundamentals	3
HF 302	The state of the s	
	and Techniques	3
HF 305		-
	Bioengineering	3
HF 400	Human Factors IV: System Design	
Total Cre	edits	30
AVIATIO	N	
Course	Title	Credits
AS 120 SP 110 FAA	Principles of Aeronautical Science OR Introduction to Space Flight OR Private Pilot Certificate	
Total Cro	edits	3
PRACTIC	CUM	
Course	Title	Credits
HF 490	Practicum in Applied Experimental	
	Psychology	3
Total Cre	edits	3
TOTAL C	ORE CREDITS	48

SPECIFIED ELECTIVES

	real	t hours from the following:) Title	redits
1000	200		3
		Aviation Psychology	3
	325	Group Structure and Process	2
	330	Learning and Motivation	9
	340	Industrial-Organizational Psychology	3
	345	Training and Development	3
PSY	350	Social Psychology	3
PSY	400	Introduction to Cognitive Science	3 3 3 3 3
PSY	405	History and Systems of Psychology	3
HF	310	Human-Computer Interaction	3
HF	315	Automation and Systems Issues	
		in Aviation	3
HF	320	Processes Underlying Crew	
330	1000	Resource Management	3
HE	325	Human Factors and System Safety	3
HE	330	Human Factors in Space	3
HE	335	Human Factors in Air Traffic Control	3
LIE	405	System Performance Modeling	3
LIE	410	Human Factors Engineering: Crew	
rar:	410		3
1.00	445	Station Design	
HF	415	Human Factors in Simulation System Human Factors in Human Computer	5 3

Interaction HF 425 Human Factors in Com- Design (Other courses with approval of	advisor) 3
Open Elective Credits	18
Total Elective Credits	
TOTAL DEGREE CREDITS	120

SPECIALIZATIONS

Students are encouraged to choose an area of specialization and/or a minor field of study. Specializations are available in human-computer interaction, simulation and training, human factors and safety, human-machine-environment interaction, human performance and information processing, or other areas of interest with the department's authorization. Courses required for the specializations will count toward specified and/or open electives.

Human-Compu	iter Interaction	Specialization
(15 Credit hours fr	om the following:)	

Course		Title	Credits	
HF	310	Human-Computer Interaction	3	
HF	315	Automation and Systems Issues		
		in Aviation	3	
HF	405	System Performance Modeling	3	
HF	410	Human Factors Engineering:		
		Crew Station Design	3	
HF	415	Human Factors in Simulation Systems	3	
HF	420	Advanced Topics in Human-Computer		
		Interaction	3	
HF	425	Human Factors in Computer Systems	100	
		Design	3	
PSY (oth	400 er coi	Introduction to Cognitive Science	3	

Simulation and Training Specialization (15 Credit hours from the following:)

Cot	ırse	Title	Credit
PSY	320	Aviation Psychology	3
PSY	325	Group Structure and Process	3
	330	Learning and Motivation	3
	345		3
HF	315	Automation and Systems Issues	
		in Aviation	3
HF	320	Processes Underlying Crewt	
		Resource Management	3
HF	405	System Performance Modeling	3 3
HF	415	Human Factors in Simulation Systems	3
(oth	er cou	arses with approval of advisor)	

Human Factors and Safety Specialization (15 Credit hours from the following:)

(12-C160	it nours from the following:)	
Course	Title	Credits
AS 409	Aviation Safety	3
HF 315	Automation and Systems Issues	
	in Aviation	3
HF 325	Human Factors and System Safety	3
HF 410	Human Factors Engineering:	
	Crew Station Design	3
SF 320	Human Factors in Aviation Safety	3
PSY 320	Aviation Psychology	3
PSY 340	Industrial-Organizational Psychology	3

(other courses with approval of advisor)

Human-Machine-Environment Interaction Specialization

Course	it hours from the following:) Title	Credits
PSY 320	Aviation Psychology	3
PSY 325	Group Structure and Process	3
PSY 340	Industrial-Organizational Psychology	3
PSY 350	Social Psychology	3
HF 310	Human-Computer Interaction	3
HF 315	Automation and Systems Issues	300
	in Aviation	3
HF 325	Human Factors and System Safety	3
HF 330	Human Factors in Space	3
HF 335	Human Factors in Air Traffic Control	3
HF 405	System Performance Modeling	3
HF 420	Advanced Topics in Human-Computer	
	Interaction	3
(other co	urses with approval of advisor)	

Human Performance and Information

(15 Cred	it hours from the following:)	
Course	Title	Credits
PSY 320	Aviation Psychology	3
PSY 325	Group Structure and Process	3
PSY 330	Learning and Motivation	3
PSY 350	Social Psychology	3
PSY 400	Introduction to Cognitive Science	3
HF 320	Processes Underlying Cockpit	
	Resource Management	3
HF 330	Human Factors in Space	3
HF 335 (other cou	Human Factors in Air Traffic Control urses with approval of advisor)	3

Suggested Program of Study

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

FRESHM	IAN YEAR		JUNIOR YEAR	0.11
Course	Title	Credits	Course Title	Credits
CS HF 300	Computer Science* Human Factors I: Principles and	3	CS/MA Computer Science/Math** HF 305 Human Factors III: Ergonomics	3
200	Fundamentals	3	and Bioengineering HF/PSY Specified Electives	6
HU	Communication Theory and Skills*	0	HF 490 Practicum	3
HU	Humanities Lower Level*	3	PSY 305 Experimental Psychology	3
HU	HU/SS 300-400 Level*	5	PSY 310 Sensation and Perception	3
MA	Mathematics*	3	PSY 315 Cognitive Psychology	3
PS pev 220	Physical and Life Sciences*	3	PSY 335 Physiological Psychology	3
	The state of the s	22	Electives Open Electives	3
Total Cre	edits	30	Total Credits	30
SOPHO	MORE YEAR		Iotal Credits	30
Course	Title	Credits	SENIOR YEAR	The Wallet
CS/MA	Computer Science/Math**	3	Course Title	Credits
HF 302	Human Factors II: Analytic Methods		HF 400 Human Factors IV: System Design	3
	and Techniques	3	HF/PSY Specified Electives	12
HU	Communication Theory and Skills*	3	Electives Open Electives	15
HU	Advanced Communication**	6	Total Credits	30
SS	Social Sciences lower level*	3	TOTAL DEGREE CREDITS	120
PS	Physical and Life Sciences*	3		120
PSY 225	Research Analysis in Psychology	3	*General Education Requirement	
PSY 300 AS 120 SP 110	Research Design in Psychology Principles of Aeronautical Science OR Introduction to Space Flight OR	3	**Degree Core Requirement	
FAA	Private Pilot Certificate	3		
Total Cr		30		

Department of Mathematics

J.H. George

Associate Chairman J.R. Watret

The Mathematics department consists of a group of dedicated professionals who use innovative ways to get students involved in learning mathematics. From self-paced learning labs to the student instruction program, the Mathematics department continually strives to enhance and develop teaching techniques that will assist students in improving their learning strategies and provide a solid foundation that

supports Embry-Riddle degree programs.

Through use of the symbolic manipulator Maple in calculus courses, students can quickly grasp new concepts without losing time on computational details.

Many areas for improving a student's learning and retention of material are being investigated. The use of technology is an important part of these studies.

MINOR COURSES OF STUDY

Minor courses of study are academic programs designed to satisfy students' personal interests and to meet their professional needs. Students explore, in some depth, the offerings in a field of study. A minor course of study provides the student with significant experience in a discipline organized around skills,

methodology, and subject matter.

Signifying a certain level of knowledge and experience that is not at the depth of a major program, all minors consist of at least 15-21 hours of coherent academic course work. At least 6 hours must be fulfilled at the upper level. In addition, at least 6 hours of course work applied to a minor must be completed at Embry-Riddle Aeronautical University and at least 3 of those hours completed in residence must be at the upper level. Students must earn a 2.0 GPA or higher within the minor to complete that program of study successfully.

To gain the greatest value from their academic experiences, students are encouraged to select minors that complement their degree program and/or other minors they are pursuing. They are also encouraged to declare a minor by the beginning of their senior year. Designed to include a minimum number of required courses, minors provide students, whenever possible, with flexibility in fulfilling program requirements. No more than two substitutions (6 hours) are permitted in any one minor or in any combination of multiple minors. A student who seeks three minors could have two substitutions in one minor, or one substitution in two of the three minors.

Not all minors are offered at all Embry-Riddle Aeronautical University locations.

The University offers the following minors at the Daytona Beach campus (D) and the Prescott campus (P). Most of these minors are offered at the Extended Campus (EC), but availability differs at each center. Minors offered through the Center for Distance Learning (C) are also notated.

Air Traffic Control - D Aviation Business Administration - D, C Aviation Safety - D, P Aviation Weather - D Computer Applications - D, P Computer-Integrated Manufacturing - D

Computer Science - D, P Environmental Studies - D Humanities - D, P Logistics - EC Mathematics - D, P Professional Communication - D Psychology - D, P Secondary Education - D Space Studies - D

MINOR IN AIR TRAFFIC CONTROL

The air traffic control (ATC) minor provides the fundamental traffic controller knowledge and technical competency through a mix of classroom instruction, computer-based instruction, and realistic ATC laboratory simulations.

ERAU has a formal partnership agreement with the FAA that designates the university as an FAA-approved air traffic control training school. This partnership insures that the learning objectives and the standards of student achievement are relevant to the needs of the FAA.

To qualify for the ATC minor, students must successfully complete the required prerequisites, listed below, and the four ATC courses, which must be taken in sequence.

Course	Title	Credits
AS 201		3
AT 363	ATC in the National Airspace System	3
AT 365	ATC Operations and Procedures	3
AT 462	Terminal/Enroute ATC w/Lab	3
AT 464	Advanced Air Traffic Control	
	Operations	3
-	A A A A A A A A A A A A A A A A A A A	

One of the following is required:

Course	Title	Credits
AS 120 AS 131	Principles of Aeronautical Science OR Commercial Flight Operations I OR FAA Private Pilot Certificate	3 2 2
Total cr	edits required	17-18

MINOR IN BUSINESS ADMINISTRATION

Students may earn a minor in Aviation Business Administration by successfully completing the following:

Title	Credits	
Principles of Management	3	
	3	
	3 3 3	
Marketing	3	
ed Electives	6	
Total credits required		
	Title Principles of Management An Economic Survey OR Microeconomics Financial Accounting Marketing ed Electives	

	ED ELECTIVES: Marketing:	
BA 405	General Aviation Marketing	3
BA 450	Airline/Airport Marketing	3
Airline N	Management:	
BA 410	Management of Air Cargo	3
BA 415	Airline Management	3
Airport !	Management:	
BA 408	Airport Management	3
BA 412		3
Internati	onal Air Transportation Management	
BA 426	International Aviation Management	3
EC 420	Economics of Air Transportation	3

This minor in Business Administration is not open to students pursuing degrees offered by the Business Administration Department.

MINOR IN AVIATION SAFETY

Students may earn a minor in Aviation Safety by successfully completing the following:

Course	Title	Credits
SF 210	Introduction to Aerospace Safety	3
SF 320	Human Factors in Aviation Safety	3
	ne additional credit hours mu inpleted from the following:	st be

Course	Title	Credits
SF 330	Aircraft Accident Investigation	3
SF 335	Mechanical and Structural Factors of Aviation Safety	3
SF 345	Aviation Safety Program Management	3
SF 350	Aircraft Crash and Emergency Management	3
SF 435	Aircraft Crash Survival Analysis and Design	3
SF 445	System Safety in Aviation 199 Selected Topic in Aerospace Safety	3
		A DE
Total ci	redits required	15

NOTE: Aeronautical Science students in the Safety minor who complete SF 210/320 and one other upper-level SF course will not be required to take AS 408. Students taking AS 408 are not required to take SF 210. Students selecting this option must still meet the minimum number of hours required for degree completion in their declared area of concentration.

MINOR IN AVIATION WEATHER

The minor in Aviation Weather introduces the student pilot to the myriad of weather products provided to the aviation community by commercial vendors and government agencies around the world. Students will learn about flying weather over the seven continents as well as how to recognize atmospheric conditions that favor the development of convective storms and other weather hazards to aviation. Requires 15 hours of weather courses.

Course	Title	Credits
AS 201	Meteorology I	3
AS 352	Meteorology II	3
AS 363	The Thunderstorm and Its	
	Environment	3
AS 364	Weather Information Available	
	to Aircrews	3
AS 261	Aviation Climates of the World	_3
Total cr	edits required	15

MAS 517, Advanced Meteorology, may be substituted for one of the above courses with advance approval of the Graduate Program coordinator.

MINOR IN COMPUTER APPLICATIONS

The minor in Computer Applications is designed to provide a utilitarian knowledge of desktop computers and local area networks (LAN). Students completing this minor will be able to function as computer specialists within their domain of expertise. The minor is open to all majors and requires 18 credit hours of computer courses. Prerequisite knowledge to start this program is at the level of CS 109. The goal of the minor in Computer Applications is to provide students with a working knowledge of Computer Applications, Local Area Networks, Windows Based Systems, Analysis of End-User Requirements, and Computer Hardware.

Course	Title	Credits
CS 117	Computer Configurations	3
CS 118	Fundamentals of Computer Program	mming
	Equivalent programming course	3

CS 206	End-User Computing Analysis	3
CS 207	Network Based Computing	3
CS 308	Practicum	3
	Specified Electives	3
Total c	redits required	18
*5	pecified Electives are chosen	from the

* 5	pecified Electives are chosen fro	m th
follow	ing list:	
CS 106	Introduction to Internet	1
CS 107	Operating Systems and Windows	1
CS 108	Word Processing	1
CS 111	Spreadsheet	1
CS 112	Database	1
CS 113	Desktop Publishing	1
CS 114	Presentation Graphics	1
CS 116	Recent Trends in Application Software	1

MINOR IN COMPUTER-INTEGRATED MANUFACTURING

Students may earn a minor in Computer-Integrated Manufacturing by successfully completing the following:

Course	Title	Credits
CS 335 CS 344	Introduction to Computer Graphics C Programming and UNIX or	3
	equivalent C programming course	3
EP 330	Introduction to CAD/CAM	3
EP 492	Robotics and Computer-Aided	
	Manufacturing	3
EP 493	Concurrent Engineering	3
Total cr	edits required	15

MINOR IN COMPUTER SCIENCE

Students may earn a minor in Computer Science by successfully completing the following:

Course	Title	Credits
CS 125	Computer Science I	4
CS 225	Computer Science II	4
	Specified Elective* SC/SE CEC	3
	Elective (300 - 400 level)	6
Total cr	edits required	17

* CS 118, a CS/SE/CEC 200 - 400 level course, EET 202, ES 405, or other computing-related courses approved by the Computer Science Department.



MINOR IN ENVIRONMENTAL STUDIES

The minor in Environmental Studies is an interdisciplinary program designed to impart a fundamental knowledge of the natural environment, the dimensions of the human impact on the environment, and an integrated approach to solving problems resulting from this impact. The minor is open to all majors and requires 18-20 hours of coursework. Students may earn a minor in Environmental Studies by completing the following:

Course	Title	Credit
PS 107	Elements of Biological Science	3
PS 108	Contemporary Chemistry OR	
PS 101	Basic Chemistry OR	3
PS 140	Chemistry for Engineers AND	4
PS 141	Chemistry for Engineers Laboratory	1
PS 142	Introduction to Environmental Science	3
SS 360	Environmental Law	3
PS 309	Principles of Ecology	3
PS 308	Atmospheric Environmental Studies (OR
AS 352	Meteorology II	3
Total cr	redits required 1	8-20

MINOR IN HUMANITIES

Students may earn a minor in Humanities by successfully completing 18 hours selected from four areas. Two courses must be completed from the HU 140-HU 146 series for a total of 6 credits.

One or more courses from each of the following lists for a total of 12 credits:

	NARRATIVE	
Course	Title	Credits
HU 300	World Literature	3
HU 305	Modern Literature	3
HU 310	American Literature	3
HU 325	Exploring Film	3
	SPECULATIVE	
Course	Title	Credits
HU 330	Values and Ethics	3
HU 335	Technology and Modern	
	Civilization	3
HU 341	World Philosophy	3
HU 330 HU 335	Title Values and Ethics Technology and Modern Civilization	

	RELIGION AND FINE ARTS	
Course	Title	Credit
HU 320	Aesthetics of Visual and Musical Arts	3
HU 345 HU 355		3 3
Total credits required		12 18

HU 399/HU 499, Special Topics in Humanities, may be included with advance permission of the department chair.

MINOR IN LOGISTICS

Students may earn a minor in Logistics by successfully completing the following:

Course	Title	Credits
BA 331	Transportation Principles	3
BA 410	Management of Air Cargo	3
BA 411	Logistics Information Systems	3
BA 422	Life Cycle Analysis for Systems	
	and Programs in Aviation/Aerospace	3
T	wo of the following are require	d:
BA 321	Aviation Systems Analysis Methods	3
BA 419	Aviation Maintenance Management	3
BA 420	Industrial Management	3
Total cr	edits required	18

This minor in Logistics is not open to students pursuing degrees in Aviation Business Administration and Aviation Maintenance Management.

MINOR IN MATHEMATICS

Students may earn a minor in Mathematics by completing the following:

Course	Title	Credits
MA 241	Calculus and Analytical Geometry I	4
MA 242	Calculus and Analytical Geometry II	4
MA 243	Calculus and Analytical Geometry III	4
MA 245	Applied Differential Equations OR	3
MA 345	Differential Equations and	
	Matrix Methods	3-4
MA	Electives (400-500 level)	5-6
Total cr	edits required	21

MINOR IN PROFESSIONAL COMMUNICATION

The minor in Professional Communication is designed to encourage an appreciation of communication as the basis of shared meaning, to provide the interpersonal competencies which will benefit students in any workplace, and to provide the advanced course work in communication which high-skill, high-wage jobs require or encourage.

Students may earn a minor in Professional Communication by successfully completing 18 credit hours from the following:

Course	Title	Credits
HU 219	Speech	3
HU 221	Technical Report Writing or	
	HU 222 Business Communication	3
HU 351	Journalism	3
HU 355	Creative Writing	3
HU 360	Persuasive Communication	3
HU 361	Interpersonal Communication in	
	the Work Group	3
HU 362	Communication and Organizational	
	Culture	3
HU 363	Communication and Society	3
HU 410	Advanced Professional Communication	n 3
HU 420	Applied Cross Cultural Communicatio	
CEAR 39	6 Co-op EDA/SP Studies (only 3 hours	
	earned credit apply toward minor. Co must be approved by program chair	о-ор
	to count for the minor.)	3
Total cr	redits required	18

MINOR IN PSYCHOLOGY

Students may earn a minor in Psychology by completing the following:

Course	Title	Credits
PSY 220	Introduction to Psychology	3
	elve additional credits in	
mu	st be chosen from the foll	owing:

Course	Title	Credits
BA 317		3
SS 310	Personality Development	3
HF 300		3
SS 350	Psychology of Relationships	3
PSY 350	Social Psychology	_3
Total credits required		15

Three credits of SS 399, Special Topics in Psychology, may be included with advance permission of the department chair.

MINOR IN SECONDARY EDUCATION

In conjunction with the minor in Mathematics students may earn a minor in Secondary Education through a collaborative agreement between Embry-Riddle and the University of Central Florida (UCF) by completing the following courses at UCF:

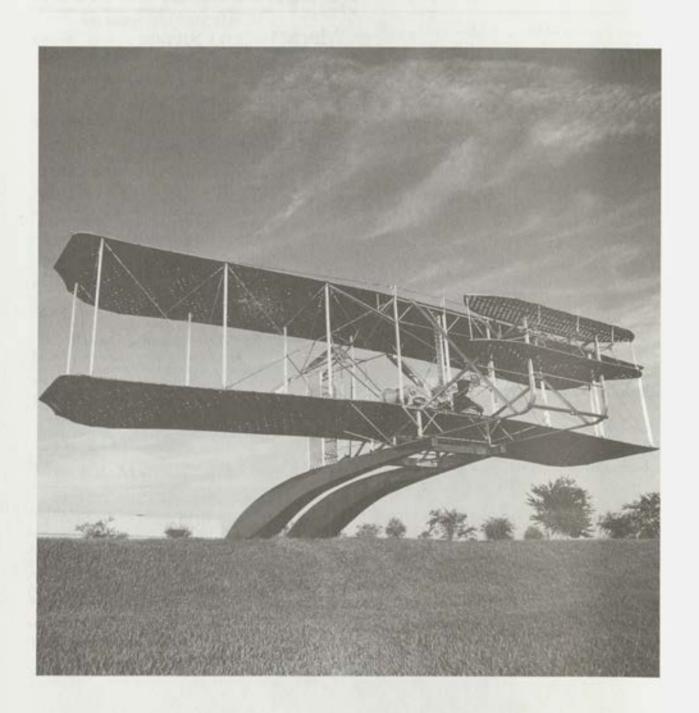
UCF Courses	Credit
Sociological Foundations EDG 4321 Teaching Strategies	4
Psychological Foundations EDF 4214 Classroom Learning Principles	3
General Methods (two courses) EDF 3603 Analysis of Educational Foundations ED 4324 Teaching in the Schools	6
Special Methods (Select One) MAE 4360 Mathematics Instructional Analysis SCE 4360 Science Instructional Analysis	4
Total credits required	17

In conjunction with the minor in Secondary Education, students seeking to acquire teacher certification at the secondary level have the opportunity to satisfy both education and internship requirements through collaborative agreements with UCF.

MINOR IN SPACE STUDIES

Students may earn a minor in Space Studies by completing 15 credits from the following list. Twelve credits selected from:

Title	Credits
Introduction to Space Flight	3
Planetary and Space Exploration	3
Space Transportation System	3
Operations	3
Life Support Systems	3
Introduction to Satellite and	
Spacecraft Systems	3
Introduction to Space Navigation	3
Special Topics in Space Studies	3
ition, all students must compl	ete:
Selected Topics in Space and	
Aerospace	3
edits required	15
	Introduction to Space Flight Planetary and Space Exploration Space Transportation System Space Station Systems and Operations Life Support Systems Introduction to Satellite and Spacecraft Systems Introduction to Space Navigation Special Topics in Space Studies ition, all students must comple Selected Topics in Space and



FINANCIAL INFORMATION

Daytona Beach Campus

FALL 1998/SPRING 1999 TUITION

Undergraduate	Engineering Programs	All Other Programs
1-11 credit	\$ 430 per	\$ 400 per
hours	credit hour	credit hour
12-16 credit	\$ 5,160	\$4,800
hours	per semester	per semester
Over 16	\$ 430 per	\$ 400 per
credit hours	credit hour	credit hour

Students whose undergraduate course loads during Fall or Spring semesters are greater than 16 hours are charged the semester rate listed above plus a per-credit-hour charge for those credit hours over 16.

Graduate	Engineering Programs	All Other Programs
	5 450 per credit hour	\$ 425 per credit hour

Engineering degree programs include the bachelor of science programs in aerospace engineering, civil engineering, and engineering physics, and the master of science in aerospace engineering/master of aerospace engineering, and the master of software engineering program. The computer science and the master's of software engineering programs are included in the engineering grouping for the purpose of charging tuition.

SUMMER 1999 TUITION

Undergraduate	Engineering Programs \$ 380 per credit hour	All Other Programs \$ 360 per credit hour
Graduate	Engineering Programs	All Other Programs
	5 400 per credit hour	\$ 370 per credit hour

There is no term rate for Summer. Summer tuition rates are determined solely by the number of credit hours per term. Each Summer term is billed separately.

Bills for tuition and fees, issued at the end of registration, are payable on the first day of class. If full payment cannot be made by this date, tuition payment agreements on outstanding balances are available at the rate of 1.5% per month. Tuition payment agreements are available in the Student Accounting Office.

FLIGHT TRAINING COSTS

In addition to academic credit hour tuition, students enrolled in flight courses pay for flight training.

Commercial Pilot Certification Program

Without Private Pilot Certificate

This Commercial Pilot Certification Program includes a Private Pilot Certificate, Commercial Certificate with Instrument and Multi-Engine Ratings. This FAA certified program curriculum contains over 345 combined hours of ground instruction, flight

instruction and solo practice time. We will offer the program described at a fixed, not to exceed, price of \$21,770 (including a one-time non-refundable administrative fee of \$100)*.

This price comes packaged with an exclusive financing program providing the following options:

 35 consecutive monthly payments of \$622.00, or

\$170 down and six consecutive semester payments of \$3600.00.

With Private Pilot Certificate

This Commercial Pilot Certification
Program includes a Commercial Certificate
with Instrument and Multi-Engine Ratings.
The FAA certified program curriculum contains over 232 combined hours of ground
instruction, flight instruction and solo practice time. We will offer the program
described at a fixed, not to exceed, price of
\$17,780 (including a one-time non-refundable fee of \$100)*. This price comes packaged with an exclusive financing program
providing the following options:

 28 consecutive monthly payments of \$635.00, or

five consecutive semester payments of \$3556.00

The University reserves the right to remove any student from the Commercial Pilot Certification Program in the event that a management review, evaluation, and/or plan of action fails to resolve any unsatisfactory training circumstances.

*Not to exceed price and payments may be adjusted pending FAA approval of flight training curriculum hours per new regulatory requirements. In such case, total student training costs will be calculated at current training rates and the difference between the calculation and the total payments made by the student will be debited/credited to the student's University account. All flight courses taken in addition to the Commercial Pilot Certification Program require a deposit.

Required Flight Courses for Continuing Students

Students who begin their Embry-Riddle flight training before the effective date of this catalog take a series of flight courses during their enrollment with each flight course requiring a separate deposit to cover hourly flight fees for aircraft, simulators, and flight instructors. Deposit schedules are reviewed periodically and are based on averages of actual costs to complete each flight course.

REQUIRED FLIGHT COURSE DEPOSITS

FA110 Commercial Pilot Flight Operations I\$6,000
FA200 Commercial Pilot Flight
Operations II
FA250 Commercial Pilot Flight
Operations III
FA300 Commercial Pilot Flight
Operations IV \$3,800
AS 430 Turbo Prop Techniques
and Crew Procedures
(B 1900)
AS 470 Airline Flight Crew
Techniques & Procedures
(B 737)\$4,600

Some students elect to take additional flight course work. These courses and deposits are listed as follows:

ELECTIVE FLIGHT COURSES

AS 345 Multi-Engine Class	
Rating	\$3,800
AS 417 Flight Training Methods	
and Curriculum Analysis	\$4,200

HOURLY FLIGHT RATES

Since students progress at different rates in flight courses, actual costs for flight courses that require a deposit are computed at the completion of each course. These costs are calculated by multiplying the number of training hours completed by the appropriate hourly rate and adjusting the student's account accordingly. Students can request updates on their financial status in the course at any time.

Type Aircraft*	Solo	Dual
Non-complex Single Engine	\$ 60/hour	\$ 95/hour
Complex Single Engine	\$ 85/hour	\$120/hour
Multi-engine Seminole	\$160/hour	\$195/hour
Flight Simulator (Single Engine)	\$ 20/hour	\$ 55/hour
Flight Simulator (Multi-engine)	\$ 55/hour	\$ 90/hour
Oral Instruction	\$ 35/hour	

A fuel charge adjustment may be made as fuel prices vary.

ROOM, BOARD, AND FEES

The following fees will be incurred each semester by any student attending the Daytona Beach campus and should be used when estimating the cost of attendance.

Housing

All freshmen and sophomore students with less than 58 earned credit hours are required to live in University-managed housing and first year freshmen are required to participate in the ERAU Dining Services meal program.

On-campus housing, standard double occupancy (per semester).....\$1,350 On-campus housing, privacy or efficiency apartments (per semester).....\$1,550

Dining Services

The Daytona Beach campus provides two meal plan options. Meal plans begin with the first day of orientation and end with the last day of final examinations. The 12 meal per week plan is required of all entering freshmen for the first two semesters of attendance. In addition to the meal plans, students may use Eagle Dollars at any dining service location. Please refer to the dining service brochure for a complete description of plans and services.

Type	Fall 1998/
(meals per week)	Spring 1999
5 Meal per week plan	\$385
12 Meal per week plan	\$800
	Summer A
	or B 1999
5 Meal per week plan	\$195
12 Meal per week plan	\$400

Mandatory Fees
Student Government Association
fee \$ 40 per semester
Health service fee \$ 25 per semester
International student
insurance fee \$ 160 per semester International student
service fee \$ 50 per semester Technology Fee (not
applicable Summer) \$ 80 per semester
User Fees
Reinstatement of canceled
registration fee \$100
Transcript fee, academic or
financial (per transcript)\$ 5
Commencement fee
(non-refundable)
Duplicate diploma\$15
Previously earned diploma \$ 40 Army ROTC fee \$ 15
Course equivalency examination fee
(non-refundable) \$100
Co-op education fee (full term)
Engineering \$430
Other
Co-op education fee (Summer A or B)
Engineering \$215
Other
Extended Campus Co-op (1 Credit) \$130
Graduate internship fee (full term)
Engineering \$450
Other
Graduate internship fee (Summer A or B)
Engineering \$225
Other\$215
FAA designated mechanic
examiner fee \$180

Annual vehicle registration fee	
Automobile\$	25
Motorcycle\$	5
Aviation maintenance technology	
testing fee	15

Embry-Riddle is committed to providing high quality education at a reasonable cost. The University also recognizes the need for students to plan for the cost of their education. Students should estimate annual tuition increases to be approximately six percent.

REFUND POLICY

During the Fall and Spring semesters only, Daytona Beach students who officially withdraw from all classes are eligible for partial refund of tuition. Spring and Fall tuition refunds for reduction of hours are not available after the last day of add/drop. Summer term refunds are calculated on a per-course basis.

During all terms the effective date of the withdrawal, as determined by the Records and Registration Office, governs refund computations.

A. The following are refundable according to the Withdrawal/Refund Schedules below:

- 1. Tuition
- Student Government Association fees
- Housing fees (less \$200 housing processing fee)
- 4. International Student Service fee
- 5. Health Service fee

University Withdrawal/Refund Schedule

Fall/Spring Semesters

Period I Class days 1-3 100%*

Period II Period IV Period V Period VI	Class days 4-10 Class days 11-15 Class days 16-20 Class days 21-25 Class days 26 and after	80% 60% 40% 20% 0%
	ninistrative fee	

Summer A/B and AMT terms

Period I	Class days 1-3	100%*
Period II	Class days 4-6	80%
Period III	Class days 7-9	60%
Period IV	Class days 10-12	40%
Period V	Class days 13-15	20%
Period VI	Class days 16 and after	r 0%
	ministrative fee	

Department of Education Withdrawal/Refund Schedule

Students receiving financial aid who withdraw will be subject to the refund policies specified by the U.S. Department of Education. Refunds for first time students who withdraw on or before the 60% point of the enrollment period will be determined by calculating the amount due under the "pro-rata" schedule. Refunds for all other students who officially withdraw on or before the 60% point of the enrollment period will be determined by calculating and comparing the amounts due under the federal refund schedule and the University refund schedule.

Pro Rata Schedule

Week 1	4	*			+					,	+		k	,			*				90%
Week 2-3		4	i.			Š	á	,	*	4					À.						80%
Week 4								4.				×		4	+		15	*		Ä	70%
Week 5-6							ļ										4				60%
Week 7-8				4		+	+	Ų,	ļ,	4		ļ		+		ė.	,				50%
Week 9							-		2		8							ï	4		40%

Week	10.				2	9						è	·			+	+		+	*	30%	
Federal	Rei	fu	ne	d	S	c	h	ec	lı	ıl	e	ě.										
Week	1-2								ä				ž.	4			Ų	×	+		90%	
Week	3-4						4.4		6	4						S					50%	
Week	5-8									,			į.	+					è	Š	25%	

Required Advance Tuition Deposit (new students only): Refundable in full, provided written notice is furnished at least 60 days before the first day of registration for the semester.

Flight Course Deposits: See flight course deposit listing.

Students who have housing contracts must contact the Housing Office to release their obligation. Any refunds will be determined at that time.

Requests for refunds which are not covered by the provisions cited above must be submitted in writing to the University's Refund Committee through the Cashier's Office. Before any request for refund will be considered by the Refund Committee, proper documentation in the form of a clearance or change of registration must be completed.

Requests for refunds due to circumstances clearly beyond the student's control, such as illness, required military service, etc., must be accompanied by appropriate documentation such as a physician's statement, military orders, etc.

A request for refund must be submitted within 60 days of the date the student completed a change of registration.

Refund petition requests will normally be processed within ten business days.

Personal appeals for denied requests, must contain additional documentation not previously presented.

Extended Campus

Undergraduate Tuition \$ 130 - 145/credit hour

Graduate Tuition

\$ 220 - 375/credit hour

User Fees

Application fee \$ 30
Late registration fee\$ 25
Deferred payment fee\$ 50
Transcript fee (per transcript) \$ 5
Commencement fee
(non-refundable) \$ 40
Duplicate diploma \$ 15
Previously earned diploma \$ 40
(not required if student pays
application fee)
Annual contract for degree maintenance
fee\$ 100
Extension fee
California registration fee
(per course) \$ 10
MSTM transfer credit fee
(per hour)

WITHDRAWAL/REFUND POLICY

There are currently four refund schedules operative within the Extended Campus. Which refund schedule applies depends upon the student's status and location and is governed by, contracts, state laws, and federal regulations.

U.S.	Military	Students	Receiving	Tuition
	stance (T			

100%

First week

After first wool

All Other N	Non-TA Students	0%
Period 1	Class Days 1-7	88%
Period II	Class Days 8-14	75%
Period III	Class Days 15-21	50%
Period IV	Class Days 22-28	20%
Period V	Class Days 29-35	5%

Non-TA Students Under California Enrollment Agreement

California refund tables available at California Centers.

Military Students and Dependents Enrolling under the DOD European Contract

Prior to first class	100%
Less than 1/8th class meetings	75%
More than 1/8th but less than 1/4	
class meetings	25%
More than 1/4 class meetings	0%

Students receiving financial aid who withdraw during their first term are subject to the refund policy specified by the U.S. Department of Education. Refer to page 64 for the Department of Education Withdrawal/Refund Schedule.

STUDENT ACCOUNTS

At the time of acceptance for admission, a University account is opened for each student. This account remains open until graduation. The primary use of this account is for University charges and payments. If an account shows credit balances, a student may request a refund in the form of cash or a check. Each student is encouraged to open and maintain an account at a local bank for personal matters.

BILLING ADDRESS

Each student is assigned an Embry-Riddle Aeronautical University mailbox which is their primary address for all University correspondence. However, all financial statements can be sent to any address designated by the student. Billing address change forms are available in the Student Accounting Office.

PAYMENT PROCEDURES

Cash, Visa, MasterCard, Discover,
AMEX, and personal checks are acceptable
forms of payment. Payments made by mail
should be addressed to the campus
Cashier's Office and timed to arrive prior to
the first day of class. Charges incurred subsequent to registration are due 30 days from
the date of invoice or the last day of class,
whichever occurs first. All payments should
include student's name and identification
number.

BOOKS, SUPPLIES AND TOOLS

Purchases are made directly from the University Bookstore. Cash, checks, Visa, MasterCard and AMEX are accepted. Students whose estimated financial aid is higher than the total amount for tuition and fees may request an advance at the Cashier's Office which can be used for books and tools.

TEMPORARY LOANS

A 30-day temporary loan is available for unexpected expenses at the Cashier's Office.

CHECK CASHING

Students may use the Cashier's Office to cash checks. One-party checks from a parent or guardian, and payable to the student, will be cashed for no more than \$100 per day. Cashier's, Travelers, or U.S. Treasury Checks or Money Orders up to \$500 in value may also be cashed.

DELINQUENT ACCOUNTS

When a student's account is delinquent, registration for that term is subject to cancellation and registration for any subsequent semester will be denied. A delinquent student account will result in suspension of all academic processing and information on class performance, grades, and transcripts will be withheld. Continued delinquency may result in administrative withdrawal from the University. Administrative withdrawal will not relieve a student of the obligation to pay outstanding debts. Sums remaining unpaid will be charged interest at the maximum rate allowed by law. The student is also subject to the costs of collection, including collection agency fees and reasonable attorney's fees for making such collection. Delinquent accounts may be reported to one or all three major credit bureaus.

Financial Assistance

Embry-Riddle participates in a number of federal, state, and University-administered programs that help students and their families meet educational costs.

Embry-Riddle believes the primary responsibility for financing education lies with the student and the student's family. Therefore, the student should apply for financial aid early, save money, look for ways to reduce costs, and become aware of specific program requirements by reading all financial aid publications. Financial aid awards are meant to supplement what the student and family can contribute toward costs and rarely cover all educational expenses.

A complete description of financial assistance programs and optional financing programs available to students and their parents is published annually by the Financial Aid Office. Students should consult this publication for information about eligibility criteria, application procedures, and deadline dates. Students who expect to need help in meeting their financial obligations are encouraged to seek such assistance through one or more of the programs available for this purpose.

ELIGIBILITY REQUIREMENTS

To be considered eligible to apply for most financial programs students must:

- Be U.S. citizens or eligible noncitizens;
- Be enrolled or accepted for enrollment as at least a half-time student in a degree program;
- Be making satisfactory progress toward a degree;
- Be registered with Selective Service if required to do so;
 - 5. Establish financial need;
- Not be in default on a loan or owe a repayment on a previous financial aid award received at any institution.

THE APPLICATION PROCESS

Applications are mailed to students after they apply for admission to the University. Renewal applications will be mailed to returning students as available. Returning students who do not receive a renewal application may request application materials from the Financial Aid Office. Notices will be posted on campus to remind students of the availability of the forms. Students attending College of Career Education or the Department of Independent Studies sites may request their financial aid materials through the resident center or contact the Financial Aid Office directly.

EXTENDED PAYMENTS

Students who use financial assistance to pay their University charges may have the payment date extended for the amount of their award if their funds are not ready to be disbursed by the date payment is due. This is called a payment extension. Any difference between the total charges and the amount of the extension granted must be paid according to the University's payment procedure. The earliest that financial assistance is credited to student accounts is the first day of classes.

To qualify for a payment extension, students must have applied for financial assistance and must have received final approval of their award.

PROGRAMS AVAILABLE

The major categories of financial assistance programs include loans, grants, scholarships, and student employment. Loans from state and federal government sources or from private lenders must be repaid; the interest rate, however, is usually low and the repayment period is extended. Grants and scholarships do not have to be repaid, nor does the income earned through student employment. Most of these programs are based on the student's financial need.

Loans

FEDERAL

- FSSL (Federal Stafford Student Loan)
- FUSSL (Federal Unsubsidized Stafford Student Loan)
- FPLUS Loan (Federal Parent Loans for Undergraduate Students)
- Federal Perkins Loan
- GATE and other private educational loans

Grants

FEDERAL

- Federal Pell Grant
- Federal Supplemental Educational Opportunity Grant

STATE

- Florida Tuition Voucher Program
- · Florida Resident Access Grant
- Florida Bright Futures Scholarship Program
- Grants from other states

Employment

FEDERAL

Federal Work-Study Program

EMBRY-RIDDLE

- Embry-Riddle Student Employment
- Off-Campus Referral Program
- · Resident Advisor Program

Scholarships

University scholarships are awarded to students according to their academic achievement and high probability of success in an aviation career. Students may submit a scholarship application after completing at least one semester with a cumulative grade point average of at least 3.00. Scholarships are very competitive. A limited number are awarded to entering freshmen and community college transfers who possess outstanding academic credentials. For more information about scholarships students should contact the Financial Aid office of the campus they plan to attend.

OTHER FINANCIAL ASSISTANCE PROGRAMS

Air Force ROTC

The USAF offers ROTC academic scholarships to students who meet specific requirements. These scholarships cover the cost of the University's tuition and books and provide qualified students a \$150 tax-free subsistence allowance per month. For more information refer to the Special Academic Programs and Opportunities section of the catalog.

Army ROTC

Army ROTC offers tuition and room and board scholarships to qualified students. For more information refer to the Special Academic Programs and Opportunities section of the catalog.

Financial Assistance

Embry-Riddle ROTC Scholarships

Embry-Riddle offers room and board scholarships to four-year and three-year advanced designee Air Force and Army ROTC scholarship recipients. These scholarships may be limited depending on the availability of funding.

U.S. Marine Corps Platoon Leaders Class Program

The program offers a guaranteed aviation contract to young men and women who meet the physical and academic qualifications. The Marine Corps also offers contracts in various non-flying military fields. Financial assistance is available for qualified applicants.

A stipend of \$150 a month for the nine months of the school year is available to all who meet the requirements and successfully complete summer training at Officer's Candidate School. While undergoing training at OCS an individual receives pay and allowances for a Sergeant. Additionally, the time spent in the PLC program is counted for pay purposes as time in service.

To be eligible for the U.S. Marine Corps Platoon Leaders Class Program, a student must be enrolled full-time. Openings are available for both men and women with any major.

For more information, contact Capt. Kornacki or SSgt. Froscher at 1-800-270-9874 or call collect at (904) 731-4747.

STUDENT GOVERNMENT ASSOCIATION LEADERSHIP PROGRAM

The Student Government Association (SGA) at each residential campus offers partial tuition for elected officials of the organization. The amount of the waiver varies depending on the position held. The goal is to stimulate interest in holding elected office and to recognize the commitment student leaders make in such positions.

For information about the criteria students must meet to run in an SGA election, or for other information about the program, contact the Student Government Association office.

ATHLETIC GRANTS

The University offers a limited number of Athletic Grants for qualified students. Awards are available for baseball, basketball, golf, soccer, tennis, wrestling, and women's volleyball. The maximum value permitted by the NAIA is the actual cost of tuition, room, board, books, and fees. However, most grants are awarded as partial tuition waivers. To qualify, students must meet both University and NAIA eligibility requirements. The grants are highly competitive and interested students should contact the Athletic Department for specific details.

VETERANS' EDUCATION BENEFITS

Embry-Riddle degree programs are approved by the appropriate State Department of Veterans' Affairs (State Approving Agency) for enrollment of persons eligible to receive education benefits from the U.S. Department of Veterans' Affairs (DVA).

Eligible persons planning to receive DVA education benefits while attending Embry-Riddle should contact the certifying official at the CCE Resident Center or the University Veterans' Affairs Office for further information and applications for benefits. Students must be pursuing a degree in a specific program to be eligible to receive benefits. Admission procedures for veterans and other eligible persons are the same as those for other students. Students who do not satisfy all requirements for full admission may be certified for two terms; however, they may be required to repay the DVA for some or all benefits received if they do not achieve full admission status during that time.

Title 38, United States Code, sections 3474 and 3524, requires that education assistance to veterans and other eligible persons be discontinued when the student ceases to make satisfactory progress toward completion of the training objective. Accordingly, benefits will be interrupted for Daytona Beach students who remain on academic probation beyond two semesters and for College of Career Education students who remain on academic probation beyond two consecutive periods of 12 credit hours. The DVA will be appropriately notified of the unsatisfactory progress. A specific request

must be submitted by the student to reinstate benefits. The DVA will determine eligibility for reinstatement of benefits.

Veterans' progress will be measured according to University standards as published in this catalog and the rules and regulations of the DVA apply. The criteria used to evaluate progress are subject to change. Application and interpretation of the criteria are solely at the discretion of Embry-Riddle. Students are responsible for notifying the certifying official of any change in their enrollment or change in personal information affecting their eligibility. Students also must remain in compliance with University and Department of Veterans' Affairs requirements. Students may receive education benefits only for courses that are required for their designated degree program. Students who receive DVA benefits are subject to strict academic regulations and should be aware of how auditing courses, repeating a course, changing degree programs or enrollment status, and other actions may affect their eligibility to receive benefits.





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