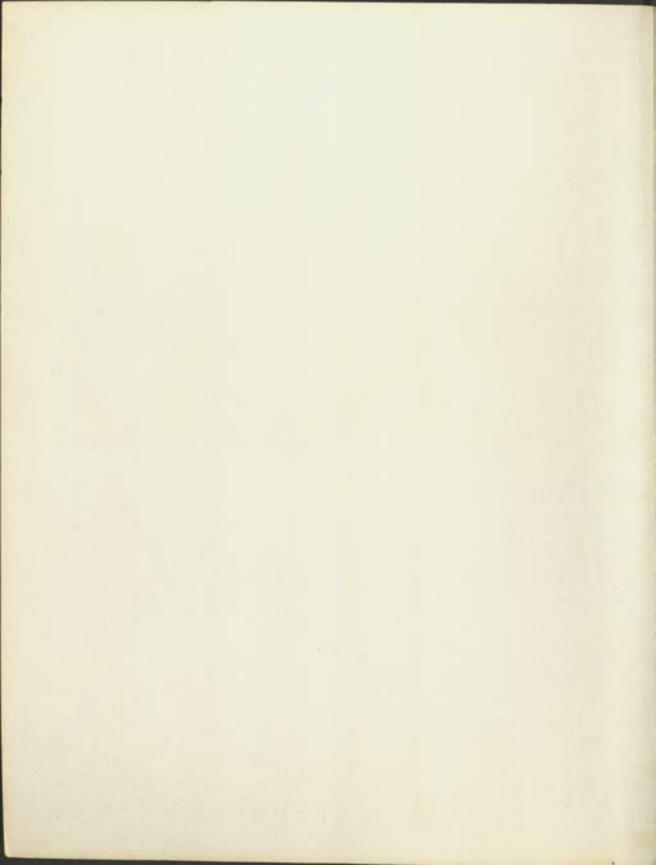
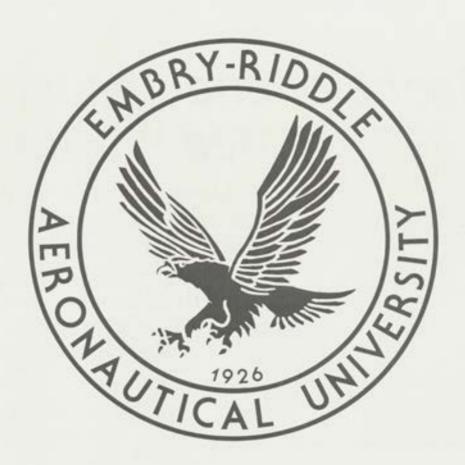


catalog '75-'76 Embry-Riddle Aeronautical University



Golden Anniversary Catalog 1975-76



EMBRY-RIDDLE AERONAUTICAL UNIVERSITY

"Serving the world of Aviation through Education for 50 years"

Certificate Programs

Maintenance Technology Flight Technology

Bachelor and Associate Degree Programs

Aviation Maintenance Management
Aviation Maintenance Technology
Aircraft Engineering Technology
Aeronautical Engineering
Professional Aeronautics
Aviation Management
Aeronautical Science
Aeronautical Studies
Aviation Safety
Management

Graduate Degree Programs

Aviation Management

CAREER POTENTIALS

Aeronautical Engineering

A Bachelor of Science degree in Aeronautical Engineering is the door to infinite possibilities within the broad field of engineering. Employment opportunities are especially promising in design, and testing programs. The engineer is qualified to seek employment in such career fields as:

Research
Developmental Engineering
Design Engineering
Stress Analysis Engineering
Engineering Programming
Production Engineering
Modification Engineering
Analytical Engineering
Field Engineering
Engineering Sales

Aircraft Structural Engineering
Project Engineering
Component Manufacturing
Engineering
Propulsion
Mossiles
Space Shuttle
Technical Reporting
Mathematical And
Statistics Engineering

Bachelor of Science

3 years 9 Trimesters

Aircraft Engineering Technology

Skilled technicians with their Maintenance Technology licenses are in great demand, particularly as alorant and their component parts become more complex. This degree program prepares graduates to assume responsibility in such areas as:

Production Supervision Maintenance Consulting Project Engineering Listison Engineering Design Engineering Program Planning Inspection Safety Consulting Test Engineering Quality Control Customer Service

Associate in Science or Bachelor of Science. Qualify for FAA Maintenance Technology ratings.

(AS) 3 years 9 Trimesters

(BS) 3 years, 8 mos. 11 trimesters

Aeronautical Engineering Technology

There is increasing derivand for technicians with an engineering background within the broad scope of the Aviation and Aerospace Industries. This training enables early entrance into his career field, to gain valuable experience while on the job and perhaps complete requirements while gainfully employed. Potential career opportunities include:

Assistant to: Aerospace Engineers Design Engineers Industrial Engineers Research Engineers Developmental Engineers Analytical Engineers Quality Control Engineers Modification Engineers Analytical Engineers Technician in:
Computer Engineering
Safety Engineering
Avionics
Electronics
Project Engineering
Safety Engineering
Customer Service
Component Repair Facilities
Technical Bustrator

Associate in Science

1 year, 8 mos. 5 Trimesters

CAREER POTENTIALS

Aeronautical Science

General Education and Aviation oriented courses are combined with Flight Training to prepare this individual to serve in various capacities as a Ptotessional Pilot. Incident to completion of the degree, the student becomes qualified to obtain the FAA Commercial Pilot Certificate, Instrument, Muth-Engine and Flight Instructor Ratings. Potential areas of employment include:

Plot: Commercial Arrines Commuter Arrines Corporate Charter Air Taxi Operations Air Freight Aerial And Photography Surveying Flight Instructing Ground Instructing

Management Responsibilities within the broad spectrum of the Aviation Industry. Customer Service. Sales Representation Aviation Planning Agricultural Applications Bush Flying Navigation

Bachelor of Science or Associate in Science

(BS) 2 years, 8 mos. or (AS) 1 year, 8 mos. 8 Trimesters 5 Trimesters

Aeronautical Studies

The selection of an area of concentration within the degree program in such areas as Flight Technology, Management, Maintenance Technology, Aeronautical Engineering or Reserve Officers Training permits the student to choose that which is most relevant to his overall caster objective. The curriculum is parallel to the Aeronautical Science degree in that most of the required courses are also required for the Aeronautical Studies degree except for flight training courses. Opportunities for potential employment are included in a broad spectrum of aviation management responsibilities within lindustry. Government or the Military depending on the area of concentration selected. Potential fields of employment include:

Flying Arrine Operations Fixed Base Operations Federal Aviation Specialists Industrial Fleet Maintenance

Component Manufacturing Industrial Relations Marketing Technical Representation Military Aviation

Bachelor of Science or Associate in Science

(BS) 2 years 8 months or (AS) 1 year 8 months 8 Trimesters 5 Trimesters

Flight Technology

Students receive concentrated training in various types of flying, including instrument and multi-engine flying. Ground School subjects round out the professional training. Career opportunities include:

Commercial Arrines. Commuter Airlines Corporate Plying Flight Instructing Ground Instructing Charter Flying Navigation

Aviation Planning Bush Flying Agricultural Applications Aerial Photography Aerial Surveying Petroleum Industry

Qualify for FAA Certification and Instrument Ratings

8 mos. to 10 mos.

Aviation Management

There is a constant, continuing need for employees with management training to fill executive, administrative and supervisory, positions within every facet of the field of evietion. Graduates with this degree quality for positions in such areas of responsibility as:

Marketing Advertising Operations Program Management

Contracts Management Project Control District Sales Management Airport Management Financial Administration Manufacturing Representation Purchasing Customer Service Representation

Fixed Base Operations Industrial Relations Personnel Management Airlines Management

Bachelor of Science or Associate in Science

(BS) 2 years, 8 mos. or (AS) 1 year, 8 mos. 8 Trimesters 5 Trimesters

Aviation Maintenance Management

This degree program combines the Maintenance Technology Certificates with management courses to prepare the student for managerial and supervisory responsibilities in the critically important maintenance fields. This training specifically prepares the graduate to serve as flaison between management and the skilled workers. Employment opportunities include:

Operation Management Maintenance Department Supervision Assembly Supervision Service Management Inspector Supervision Technical Report Writing Field Representation Instrument Workshop Supervision Overhau! Shop Management Fixed Base Operations Safety Engineer-Maintenance Management Customer Service

Bachelor of Science 18 months (Aircraft Maintenance Technology course) Plus 6 Trimesters (Academic course)

Associate in Science AMT Course plus 4 trimesters

Professional Aeronautics

This degree program is designed to enable the student to assume positions of supervisory responsibility within the professional fields shown below. The bachelor's degree will provide the basis for entrance to graduate study in business or management. (These programs are open only to professionals in the selected skill areas identified as areas of concentration).

Air Traffic Control Airway Facilities Airline Command Pilot Aircraft Maintenance Aviation Weather Aviation Electronics Flight Operations Flight Simulation Flight Technology

Bachelor's Degree Professional qualification Plus 4-6 trimesters

Associate Degree Professional qualification Plus 3 trimesters

Aircraft Maintenance Technology

includes intense shop training for skills required to disassemble, repair and reassemble modern sinfames, jet and piston power plants. In eighteen months one is ready to move into areas of responsibility as an Azoratt Maintenance Technician with:

Commercial Airlines Engine Manufacturers Aircraft Manufacturers Rocket and Masile Industries Commuter Airlines Industrial Fleet Maintenance Component Manufacturers

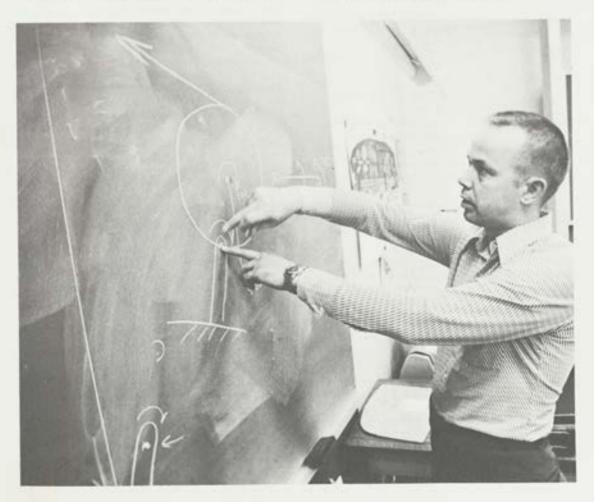
Certificate of Completion qualifies for FAA Maintenance Technology Certificate — A.S. Degree

> 18 months (4½ Trimesters)

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EMBRY-RIDDLE AERONAUTICAL UNIVERSITY CALENDAR

SUMMER	TRIMESTER (TERM A) 1975	July 18	Last day to make up incomplete (I)
May 5	All entering students report for Orientation (Arrival on Campus)		grades. (Term A Summer trimester)
May 5-9	Orientation (Mandatory)	Aug 13	Last day to officially drop courses
May 8-9	Registration		for Term B and to change course
May 12	Classes begin		registration from credit to audit
May 14	Last day to add Term A courses	Aug 14	Last day for completion of gradu-
SHIP COLUMN	and late registration		ation requirements, other than final grades
May 16	Last day to make payment or	Aug 19-21	Final examinations
	arrange settlement of trimester tuition and fees etc., with the Cashier by 3:00 p.m.	Aug 22	Graduation — End of Term
May 21	Last day to add full Summer term		ALL TRIMESTER 1975
	courses		
May 21	Last day to submit application for	Sept 1	Labor Day Holiday — University
neay ar	June Graduation	200	closed
May 22	Last day to officially drop classes	Sept 2	All entering students report for
	for Term A and receive 50%	10000000	Orientation. (Arrival on campus)
	refund of tuition	Sept 2-6	Orientation (Mandatory)
May 26	Federal Holiday - University	Sept 4-6	Registration - afternoon of
may 20	closed		Thursday the 4th Seniors, morning
June 3	Last day to drop full Summer		of Friday the 5th Juniors, after-
Julie 2	trimester courses and receive 50%		noon of Friday the 5th
	refund of tuition		Sophomores, and Saturday the 6th
June 6	Last day to make up incomplete (I)		transfer students and Freshmen
2 4110	grades. (Spring trimester)	Sept 8	Classes begin
June 20	Last day to officially drop Term A	Sept 15	Last day to add courses and late registration
	courses and to change course	Sept 16	Last day to make payment or
	registration from credit to audit	Sept 10	arrange settlement of trimester
June 26-27	Final examinations		tuition, fees, etc., with the Cashier
June 27	End of Term A		by 3:00 p.m.
		Sept 19	Last day to make up incomplete (I)
		Sept 19	grades. (Summer Trimester B-
	TERM B 1975		
June 25	All entering students report for	Cont 20	Term) Last day to withdraw from classes
	Orientation (Arrival on Campus)	Sept 29	and receive 50% refund of tuition
June 25-27	Orientation (Mandatory)	0	and receive 50% retund of taleon
June 30	Registration	Oct 3	Last day to make up incomplete (I)
July 1	Classes begin		grades from full Summer
July 3	Last day to add Town D		Trimester courses
July 5	Last day to add Term B courses	Oct 27	Orientation for Maintenance
	and late registration. Last day to		Technology. Mid-Trimester regis-
	submit application for August Graduation		tration for Maintenance
July 4			Technology
7.00	Independence Day Holiday —	Oct 27	Faculty turn in Mid-Term grades
July 7	University closed	042400 3200	to Student Records Office
	Last day to make payment or	Oct 28	Mid-Trimester classes begin for
	arrange settlement of Term B	Carlo Santo	Maintenance Technology
	tuition and fees with the Cashier	Oct 28	Last day to submit application for
July 11	by 3:00 p.m.		December Graduation
	Last day to drop Term B courses	Nov 17-28	Academic Counseling for Spring
	and receive 50% refund of tuition		Trimester

Nov 27-28	Thanksgiving Holiday - Univer-	May 6-7	Registration
	sity closed	May 10	Classes begin
Dec I	Last day to officially drop courses, and to change course	May 12	Last day to add Term A courses and late registration
	registration from credit to audit	May 14	Last day to make payment or
Dec 8	Last day for completion of gradu-	1100000000	arrange settlement of trimester
	ation requirements, other than final grades		tuition, fees, etc., with Cashier by 3:00 p.m.
Dec 12-18	Final examinations	May 19	Last day to withdraw from Term A
Dec 19	Graduation — End of trimester		classes and receive a 50% refund of tuition
		May 21	Last day to add full Summer Term
SPI	RING TRIMESTER 1976	COURTON.	courses
Jan 6	All entering students report for Orientation (Arrival on Campus)	May 24	Federal Holiday — University closed
Jan 6-9	Orientation (Mandatory)	May 28	Last day to submit application for
Jan 8-9	Registration		June graduation
Jan 12	Classes begin	May 31	Last day to withdraw from full
Jan 19	Last day to add courses and late	may 51	Summer Trimester classes and
Jan 17	registration		receive 50% refund of tuition
Jan 23	Last day to make payment or	June 4	Last day to make up incomplete (I)
Jan 25		June 4	grades (Spring Trimester)
	arrange settlement of trimester	t 10	
	tuition, fees, etc., with Cashier by	June 18	Last day to officially drop courses
	3:00 p.m.		for Term A. Last day to change
Jan 30	Last day to make up incomplete (I)		course registration from credit to
	grades (Fall Trimester)		audit
Feb 16	Federal Holiday - University	June 28-29	Final Examinations
-1000	closed	June 29	End of Term A
Feb 27	Last day to submit application for April graduation		The state of the s
Mar 3	Orientation for Maintenance Tech		(TERM B)
Mar 4	Mid-Trimester registration for Maintenance Tech	June 27	All entering students report for Orientation (Arrival on Campus)
Mar 4	Faculty turn in mid-term grades to	June 28-29 June 30	Orientation begins (Mandatory) Registration (Term B only)
	Student Records Office		
Mar 5	Mid-Trimester classes begin for	July 1	Classes begin
Mar 15-19	Maintenance Tech Academic counseling for Summer	July 5	Independence Day Holiday — University closed
	Trimester	July 6	Last day to add Term B courses,
Apr 2	Last day to officially drop	1000000	and late registration
Apr 2	courses, and to change course	July 8	Last day to make payment or
	registration from credit to audit		arrange settlement of trimester
Apr 1-9	Academic counseling for Fall		tuition, fees, etc., with Cashier by
	Trimester		3:00 p.m.
Apr 9	Last day for completion of gradu-	July 9	Last day to submit application for
10000	ation requirements other than final		August graduation
	grades	July 12	Last day to withdraw from Term A
Apr 16-22	Final Examinations		classes and receive a 50% refund
Apr 23	Convocation & Graduation		of tuition
Apr 23	End of Trimester	July 20	Last day to make up incomplete (I)
rape no	and or armener	of out only	grades (Summer Term A)
		July 26-30	Academic counseling for Fall
SUMME	R TRIMESTER (TERM A) 1976		Trimester
	All entering students report for	Aug 6	Last day for completion of gradu-
May 4	An entering suppents remain the	CV 1135, 13	Last day for completion of prairie

Aug 13	Last day to officially drop Term B classes, last day to change course registration from credit to audit	Dec 16-21 Dec 22	Final Examinations Graduation End of Trimester
Aug 18-2			
Aug 21	Graduation End of Term B and		RING TRIMESTER 1977
	Summer Trimester	Jan 4	All entering students report for
			Orientation (Arrival on Campus)
		Jan 4-7	Orientation (Mandatory)
	FALL TRIMESTER 1976	Jan 6-7	Registration
Sept 6	Labor Day Holiday-University	Jan 10	Classes begin
Dept 0	closed	Jan 17	Last day to add courses and late
Sept 7	All entering students report for		registration
oup.	Orientation (Arrival on Campus)	Jan 21	Last day to make payment or
Sept 7-1			arrange settlement of trimester
Sept 9-1			tuition, fees, etc., with Cashier by
- TATE (100 A C)	day the 9th Seniors, morning of	Feb 2	3:00 p.m.
	Friday the 10th Juniors, afternoon	Peb 2	Last day to make up incomplete (I)
	of Friday the 10th Sophomores,	Feb 21	grades (Fall Trimester)
	and Saturday the 11th transfer and	Pet 21	Federal Holiday—University closed
	new students	Mar 1	Last day to submit application for
Sept 13	Classes begin	1400 1	April graduation
Sept 17	Last day to make up incomplete (I)	Mar 2	Orientation for Maintenance
	grades (Summer Trimester Term		Technology
427 17 121	B)	Mar 3	Mid-Trimester registration for
Sept 20	Last day to add courses and last		Maintenance Technology
	day for late registration	Mar 4	Faculty turn in Mid-Term grades
Sept 24	Last day to make payment or		to Student Records Office. Mid-
	arrange settlement of trimester		Trimester classes begin for Main-
	tuition, fees, etc., with Cashier by		tenance Technology
0-1	3:00 p.m.	Mar 14-22	Academic counseling for Summer
Oct 1	Last day to make up incomplete (I)		Trimester
	grades for full trimester Summer	Mar 23-31	Academic counseling for Fall
Oct 4	courses. Last day to withdraw from classes		Trimester
OCT 4	and receive 50% refund of tuition	Apr I	Last day to officially drop courses
Oct 29	Last day to submit application for		and change course registration
000 23	December Graduation		from credit to audit
Nov 1	Orientation for Maintenance	Apr 8	Last day for completion of gradu-
	Technology. Mid-Trimester regis-		ation requirements, other than
	tration for Maintenance	4	final grades
	Technology	Apr 15-21	Final examinations
Nov 1	Faculty turn in Mid-Term grades	Apr 22	Convocation & Graduation. End of Trimester
	to Student Records Office		of Trimester
Nov 2	Mid-Trimester classes begin for		
	Maintenance Technology	100 miles	120
Nov 16-	24 Academic Counseling for Spring	-1-	0-010
000000000000000000000000000000000000000	Trimester		All the second second
Nov 25-		1.0	
	sity closed	a delication in	
Dec 4	I get day to officially drop classes	A STATE OF THE PARTY OF THE PAR	THE ACT IN COLUMN THE PARTY OF

Last day to officially drop classes and last day to change course registration from credit to audit

Last day for completion of graduation requirements, other than

final grades



Dec 3

Dec 13



GENERAL INFORMATION

GENERAL INFORMATION

A Golden Year

The year 1976 is a banner year for the United States — the Bicentennial — and a truly golden year for Embry-Riddle Aeronautical University. It's our fiftieth anniversary!

In those 50 years we have grown from a small flight school; first to Embry-Riddle International School of Aviation, then to Embry-Riddle Aeronautical Institute and finally to the full university we are today.

Our three colleges have programs which range from certificates in maintenance and flight technology on through the Associate in Science Degree, the Bachelor of Science Degree and a Master's Degree in Aviation Management.

Embry-Riddle students come from all over the world and Embry-Riddle graduates are working all over the world in the field of aviation.

All of this began in 1926 at Lunken Airport in Cincinnati, Ohio, with aviators T. Higby Embry and J. Paul Riddle. They had a mail carrying operation and found it was more expedient to train their own pilots and mechanics.

Two years later Embry-Riddle joined with similar air carriers to form American Airlines. Its flying school operation subsequently was moved to Miami, Florida.

The small flight school grew rapidly and soon became recognized nationally and internationally as a leader in aeronautical education. At the outbreak of World War II it assisted the U.S. Army and the Air Forces of England and France in training pilots and mechanics.

As its curriculum grew, it became a leader in the field of aviation academics as well as flight. As part of its growth process, Embry-Riddle moved to its present site at Daytona Beach Regional Airport in 1965. Here, a \$25 million campus has been designed on 95 well placed acres. When it's completed, the Daytona Beach campus will accommodate 5,000 students

Right now, Embry-Riddle has an enrollment of more than 3,200, with 1,600 on the main campus. There are students at consortia and resident centers throughout the U.S. and at resident centers in Germany, England, Spain and Greece. The students come from all 50 states and more than 60 countries.

Appropriately enough, the world's only accredited, private, non-profit, coeducational, totally aviation oriented university is just 10 minutes away from another unique "facility" — the World's Most Famous Beach. It's the beach you can drive on when the tide is out, with 23 miles of gleaming white sand. There's a river even closer and, as in most of Florida, all types of water sports are available year round.

Other sports also are well represented, with the Daytona International Speedway right next door to the campus. Quick and easy driving on interstate highways takes you to such nearby attractions as Disney World, Sea World, the Kennedy Space Center, St. Augustine, Marineland, Silver Springs, Cypress Gardens, Busch Gardens and Weeki Wachee Springs.

Married students with families will be glad to know the area has a fine comprehensive school system, churches of all denominations, modern hospitals and many playgrounds and parks.

Philosophy

Embry-Riddle Aeronautical University accepts as a responsibility:

The personal task of preparing students for responsible citizenship.

The educational task of adequately preparing students for productive occupational and professional careers in aviation.

The industrial task of maintaining the closest liaison with the aviation community and of maintaining a continuing dialogue with all elements of aviation.

Statement of Purpose

In accordance with the philosophy of the University, the following statement of purpose has been adopted:

To prepare the student for immediate productivity and effective contributions to aviation.

To develop within the student the ability to objectively evaluate the economic, political and moral affairs of man and society and to make advanced studies and research available to the student.

To provide the facilities, faculty and staff for the professional and intellectual climate needed to inspire students to acquire a high degree of inquisitiveness, professionalism, and skill in their chosen aviation fields.

To develop and maintain professional aviation-oriented educational programs consistent with high standards.

To maintain a constant and dynamic reevaluation of the various programs offered.

To provide each student with an awareness of self through courses in the humanities and the social sciences.

To sponsor and promote research activities appropriate to these purposes.

Accreditation and Affiliation

Embry-Riddle Aeronautical University is an accredited member of the Southern Association of Colleges and Schools. The Bachelor of Science curriculum in Aircraft Engineering Technology and the Associate of Science curriculum in Aeronautical Engineering Technology are accredited by the Engineers' Council for Professional Development, the national engineering accrediting agency. The Bachelor of Science Program in Aeronautical Engineering has been reviewed for accreditation by ECPD and full accreditation is anticipated. Technical programs in Aircraft Maintenance and Flight Technology are fully approved by the Federal Aviation Administration.

The University holds membership in the Independent Colleges and Universities of Florida, Florida Association of Colleges and Universities, and national, regional and state memberships in the following: American Association of Collegiate Registrars and Admissions Officers, American College Public Relations Association, National Association of College Admissions Counselors, College Placement Council, National Association of Student Personnel Administrators, Institute of International Education, Aviation Education Review Organization, American Society for Engineering Education.







ADMISSION TO THE UNIVERSITY

ADMISSION TO THE UNIVERSITY

General Requirements

Students should apply for admission at least sixty days prior to the start of the trimester in which they wish to enroll. Applications received later than this date will be processed, but applicants can expect delays in their date of admission and enrollment. An applicant must present evidence of satisfactory mental and physical health by submission of the completed University Health Form prior to enrollment. The Health Form must be executed within six months prior to the date of admission and mailed directly to the University Health Service. All students are required to present evidence of hospitalization insurance or purchase same at the time of registration.

All entering students who expect to participate in flight training must present a Federal Aviation Administration Airman's medical certificate (Class I or II) to the Flight Technology Division before flight training will be initiated. In addition, a copy of this FAA Class I or II medical certificate must be forwarded to the Admissions Office prior to entry.

All applicants must present an official transcript verifying completion of secondary education from an accredited secondary school. Graduates of non-accredited secondary schools, those not issued a diploma and those not completing a secondary program will be considered for admission on the basis of the General Education Development test provided they place above the 40th percentile in each subject area and above 45th percentile on the composite of the GED.

A fee of \$25 must accompany all applications for admission or re-admission. Within thirty days of notification of acceptance, a \$100 tuition deposit is required. This deposit is refundable, provided the student notifies the University by letter postmarked sixty days prior to the published registration date that he will not register.

For information concerning on or off campus housing accommodations, contact the Director of Housing.

Any concealment by an applicant of previous college registration, previous academic or disciplinary record in college, or falsification of any personal or educational qualifications required for admission will immediately cancel the admission process at Embry-Riddle Aeronautical University.

Applicants who have been accepted will be notified promptly and will receive registration instructions prior to the date established for registration. A student accepted into degree curriculums must have either ACT or SAT program offices or his high school forward his scores to the Admissions Office at least one month prior to date of enrollment. (See page 23) Those who find it impossible to meet this deadline may apply for special permission to take the tests on campus. If neither the transcript of scores nor campus administration of test deadlines has been met, a student wishing to enroll in a degree program will be charged a fee of \$100 for the cost of individual administration of the placement test and late registration. ACT or SAT scores are not required for students entering certificate programs of the Maintenance and Flight Technology Divisions.

All credentials and application forms must be sent to:

Dean of Admissions and Records Embry-Riddle Aeronautical University, Daytona Beach, Florida 32015

International Students

The credentials of applicants from foreign countries are evaluated in accordance with the general regulations governing admission. An application, application fee, photograph, and detailed transcripts of secondary and college (if appropriate) records must be submitted to the Dean of Admissions and Records at least six months in advance of the opening of the class in which the applicant seeks admission. The six month period will allow time for the exchange of necessary correspondence and documents relative to securing passports and visas for study in the United States. Applicants received from international students will not be processed without payment of the application fee.

Candidates for admission are required to consult the American Consulate or the American Embassy in their country of residence and make arrangements to take an English language examination. The results of this examination are an important factor in determining the acceptability of an applicant. Embry-Riddle must receive this information directly from the Consular Office or Testing Center before a decision concerning admission will be made.

In addition, candidates for admission must complete all arrangements for the necessary American dollars to cover tuition and living expenses. The student must furnish an advance statement of financial support. The amount of financial support required will be reflected in the letter sent to the student after receipt of the application for admission. The statement of financial support also is an important factor in determining the acceptability of an applicant.

Acceptance for admission of international students will be based on recommendations of the Committee on Admissions and on other requirements detailed in this Catalog. International students approved to enter will be required to present evidence of satisfactory mental and physical health at the time of admission and may be required to submit to a physical examination at their own expense.

Upon approval for admission, an advance deposit in the amount of \$1,800 U.S. currency is required. Of this deposit \$1,200 will apply toward tuition and expenses during the initial term of enrollment and \$600 will be held by the University as an Emergency Fund, This Fund will only be utilized when an emergency arises, such as medical expenses, return trip home, etc. If not used, the money will be returned upon completion of the student's program. This \$1,800 must be received by the Admissions Office before the letter confirming enrollment and forwarding the Certificate of Eligibility (Form I-20) is issued. This Certificate of Eligibility must be presented to the nearest office of the American Consulate in order to obtain the student visa and must be in the possession of all international students prior to departure from their country. A change of immigration status from tourist visa (or other) to student visa is not possible after the student's arrival at the University.

The Foreign Student Advisor implements the regulations of the Departments of Justice, State and Labor insofar as foreign students are subject to them. The Advisor's Office serves, by counseling and direct action, as a continuous service center for foreign students in solving their problems of whatever nature. Close liaison is maintained with academic advisors and helping services on and off campus.

A special cultural/English language orientation program is available and may be required for some international students.

Transfer Students

A candidate for admissions who has attended other accredited institutions of higher education must arrange for official transcripts to be sent directly to the Dean of Admissions and Records from the Registrar of each institution attended. If requested, the candidate must present the catalog of the institution from which he transfers, marked to indicate courses taken. Transfer credit will be granted under the following provisions:

- The student must be in good academic standing with the last institution attended, or, if admitted on probation, student will be granted transfer credit in accordance with University policy upon removal from probation at ERAU.
- (2) Only those courses completed with "C" or better are transferable. A course with a grade of "D" may be accepted on the basis of passing satisfactorily an ERAU course equivalency examination.
- (3) Previous flight experience may be accepted in accordance with the transfer policy stated under subheadings, "Advanced Standing (6)," page 21.
- (4) Credit was earned at collegiate institutions that are accredited by the appropriate regional accrediting agency.
- (5) All acceptable transfer work will be posted on the ERAU transcript. If the work is not applicable to the student's degree program, the work will be

considered as electives in excess of minimal degree requirements.

Students not transferring credits in English and mathematics will be required to take the examinations described as "Placement Tests" and will be subject to University regulations governing these tests, (See page 23)

Students on probation at the last institution attended and students transferring from institutions not accredited by the appropriate regional accrediting agency will be placed on probation when enrolled. They must earn a gradepoint average of at least 2.0 the first trimester to continue in their degree curriculum.

Embry-Riddle reserves the right to require an evaluation examination for any course submitted for transfer credit if there is doubt concerning the equivalency of the transfer course with a similar course offered at Embry-Riddle.

Upon receipt of all official transcripts and documents and approval for admission, or upon removal from probationary status, an official evaluation of courses accepted for transfer credit will be forwarded to the student. The student's records (transcripts, etc.) will be evaluated according to the rules, regulations, and policies in the Catalog and the policy manual in effect at the time of his matriculation and registration on campus or at a residence center as a degree student.

Advanced Standing

Examination scores, training in military service schools, and professional background experience may be submitted as a basis for admission to an advanced level. Credit may be awarded as follows:

 The University offers advanced placement credit toward a college degree to those students who present CEEB Advanced Placement Test scores of 5, 4 or 3.

(2) ERAU follows the standards recommended by the American Council on Education for awarding credit for CLEP and USAFI examinations. The courses and hours of credit which are recognized by ERAU for the general college level examinations by CLEP are as follows:

- (3) Credit for the CLEP subject examinations (except for the last thirty credits required for a baccalaureate degree, or last fifteen credits required for an associate degree) will be accepted for equivalent ERAU courses with the approval of the Dean of the College granting the degree. Scores on these tests must be submitted upon initial enrollment as a degree candidate to be officially evaluated for credit. Additional credit by examination may be awarded as indicated below on page 22.
- (4) Training in military service schools will be considered for credit by each curriculum division based on the recommendation of the American Council of Education.
- (5) Applicants who have had professional experience in areas related to the curriculum in which they have requested enrollment, may be allowed credit toward advanced standing. Training and experience which satisfy

- educational objectives of courses in the applicant's curriculum may be credited for advanced standing by the appropriate College.
- (6) Advanced standing may be granted for specific Aeronautical Science courses on the basis of flight related experience and training acquired prior to a student's enrollment at Embry-Riddle. The student must provide appropriate documentation to substantiate his background to the Dean. College of Aviation Technology, during his first trimester at Embry-Riddle. If the student has attended an FAA approved flight school, a transcript of all flight times, signed by the school's chief instructor, should be provided. This transcript along with personal flight logs will be used for placement evaluation. The number of credits awarded for advanced standing will comply with the following University policy:

Credit granted on the basis of FAA certificates and licenses (other than maintenance technician), FAA written examinations, and Flight Division evaluations for advanced standing, shall be one-half the amount of credit granted for those courses taken in residence. The credit differences between the amount awarded and the credit value assigned to the ERAU courses is to be made up in science/technology electives. The credit granted for FAA ratings earned through military training and for FAA ratings held by currently qualified airline pilots will be transferred as the equivalent of ERAU resident courses.

Flight Technology ground courses shall transfer to the degree programs at one-half the credit for the comparable Aeronautical Science courses. The credits needed to

^{*}Not applicable to degree programs.

complete degree requirements are to be made up in science/technology electives.

Experience for which credit will be granted in accordance with the above procedures is as follows:

- (a) Satisfactory completion of an FAA approved Private Pilot Ground School or satisfactory completion of the Private Pilot, or higher, written examination and a minimum of 40 hours of pilot experience: AS 100.
- (b) Satisfactory completion of an FAA approved Commercial Pilot Ground School or satisfactory completion of the FAA Commercial Pilot, or higher, written examination and a minimum of 160 hours of pilot experience: AS 100, AS 102 and AS 103.
- (c) Satisfactory completion of an FAA approved Instrument Ground School or satisfactory completion of the FAA Instrument Pilot written examination and a minimum of 200 hours of pilot experience: AS 100, AS 102, AS 103, AS 201 and AS 302.
- (d) Satisfactory completion of a U.S. military undergraduate pilot training program: AS 100, AS 102, AS 103, AS 201 and AS 302. Graduates of USAF and U.S. Navy pilot training programs will also be granted credit for AS 209 and AS 307.
- (e) Satisfactory completion of the FAA Airline Transport pilot written examination or FAA certified Commercial Airplane Pilots with a minimum of 2000 hours pilot experience: AS 100, AS 102, AS 103, AS 201, AS 209 and AS 302. An individual who meets the aforementioned qualifications, but is rated Rotary-wing only will be allowed credit for AS 100, AS 102, AS 103, and AS 201. If he has a Rotorcraft-Helicopter Standard Instrument rating, or has successfully

completed the FAA instrument written examination, he may also be credited with AS 302.

A student who possesses qualifications not listed above and who considers that his background warrants consideration for advanced standing may submit appropriate evidence of his experience for evaluation, or the student may request that he be administered a course equivalency examination for specific courses. Flight experience will be evaluated in accordance with procedures outlined on pages 20-22.

Applications to take course equivalency examinations are to be filed at the Registration and Student Records office. A fee of \$45 is charged for administering each written examination. A fee for a course equivalency examination for flight is dependent upon aircraft utilization. An examination may be taken only once for each course.

Applications for advanced standing must be submitted prior to or during the first trimester at Embry-Riddle and must include adequate documentation such as certification of professional level, evidence of completion of formal training programs and verification of work experience, where appropriate.

Advanced standing and transfer credit granted in accordance with these procedures will be authenticated by the appropriate college and validated by the Dean of Admissions and Records for official records purpose. An evaluation Form will be provided to the student.

Veterans

The State of Florida has approved all Embry-Riddle Aeronautical University programs for enrollment of veterans eligible for U.S. Veteran's Administration benefits under the various Public Laws. Veterans planning to further their education under veterans' benefits at Embry-Riddle should secure their Certificate of Eligibility for training from the nearest Veterans' Administration office. Admission procedures for veterans are the same as those for other students. Upon enrollment at the University, veterans should process the Certificate of Eligibility through the University Veterans' Affairs office.

Degree Completion Program Active Duty

A college degree, either bachelor or associate, is a worthwhile and necessary goal of many military personnel. Recognizing the value of higher education, both to the military service and the individual, all branches of the Armed Services offer various "Bootstrap" and degree completion programs to qualified personnel. To the serious military applicant wishing to participate in one of these excellent programs, ERAU is pleased to offer all possible assistance.

Upon application and receipt of all supporting documents, University personnel will evaluate previously completed college courses, military education and experience to determine advanced academic credit. It is a pleasant surprise to most applicants to learn they are closer to earning a valuable aviation oriented degree than they thought.

Each applicant receives a copy of the University evaluation form stating specifically the courses for which credit has been granted.

Applications should be submitted at least ninety days prior to the proposed enrollment date.

Placement Tests

The American College Test (ACT) or the

Scholastic Aptitude Test (SAT) is required for any student entering a degree program, either baccalaureate or associate.

Since these tests are given several times a year on a nationwide basis, the student should take the test before arriving on campus. The student should contact his or her high school guidance counselor or principal to determine the location of the nearest testing center. When a student registers for the test, the registration form should indicate in the proper space that a transcript of his scores will be sent to the University.

During the orientation period at the University, a reading test will be administered to all entering students. Certificate students will also be administered a mathematics tests.

The placement tests do not determine approval or disapproval for admission. However, when scores in the various subject areas indicate a weakness, the student may be required to enroll in one or more courses to improve his skills in that area.

Further details on the placement tests are given on page 115.

Registration for Continued Enrollment

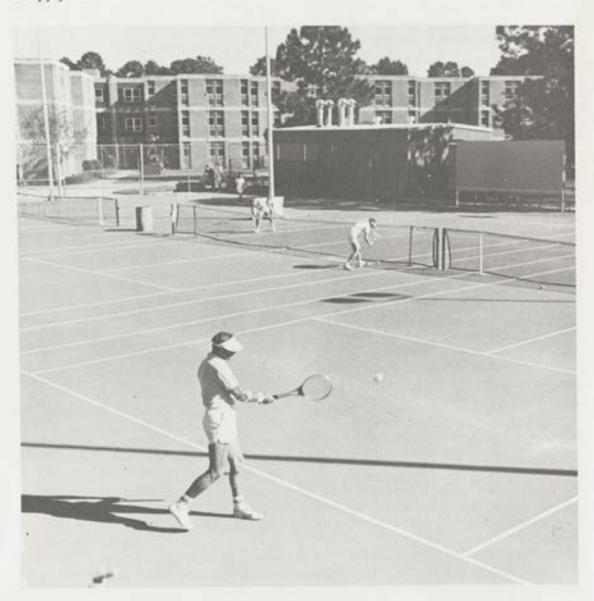
After initial registration, a student must register for each subsequent trimester in which he or she plans to enroll. Tuition deposits, registration and payment of fees must be made in accordance with instructions published by the Dean of Admissions and Records.

Penalties will be charged for late registration and late payment of fees. Late registration will be allowed during the first week of classes if unusual circumstances prohibited the student from registering during the scheduled period. (The late registration fee of \$50 applies in such cases.) Under no circumstances will registration be allowed after the first week of classes.

Continuous Enrollment

Students failing to maintain continuous enrollment for any reason are required to re-apply for admission. A student is considered a continuing student, regardless of the number of hours for which he or she is registered, unless he or she:

- Enrolls for twelve or more hours at another school,
- (2) Leaves the University for two consecutive trimesters, or
- (3) Has been dismissed from the University.





ACADEMIC AND CERTIFICATE PROGRAMS

ACADEMIC AND CERTIFICATE PROGRAMS

General Information

This section of the catalog describes the various Degree and Certificate programs offered by Embry-Riddle University as well as other special educational programs available to the student. The degree programs offered are as follows:

Bachelor of Science Degree:

Aeronautical Engineering
Aeronautical Science
Aircraft Engineering
Technology
Aeronautical Studies
Aviation Management
Aviation Maintenance Management
Management

Bachelor Degree: Professional Aeronautics

Associate in Science:

Aeronautical Engineering
Technology
Aircraft Engineering Technology
Aviation Management
Aviation Maintenance Management
Aviation Safety
Aeronautical Studies
Aircraft Engineering
Technology
Aeronautical Science

Associate in Aviation Maintenance Technology Associate in Professional Aeronautics

Certificate Programs: Flight Technology Maintenance Technology

Masters Degree: Aviation Management

These Degrees and Certificates are offered through three Colleges which constitute the total instructional program of the University. The three Colleges are:

College of Aeronautical Studies College of Aviation Technology College of Continuing Education

The various program offerings are discussed below under the appropriate College. In addition to a description of each program and its potential industry/job relationship, any special requirements for admission, transfer of credit and advanced standing are discussed. A list of all courses required for each of the programs is provided. A description of each of these courses may be found in Section 4, "Course Descriptions."

Within certain degree programs, the student selects an Area of Concentration in a specific area or discipline. The Area of Concentration is designed to help the student focus his electives and optional courses so as to develop a greater depth of knowledge or skill in a selected area of application.



The Areas of Concentration are:

Aeronautical Engineering Aeronautics Air Force Reserve Officers Training Program Airport Management Air Traffic Control Technology Air Transportation Airway Facilities Technology Applied Mathematics Army Reserve Officers Training Program Aviation Education Aviation Management Computer Technology Flight Technology Maintenance Technology

It should be noted that not all Areas of Concentration are available in all Degree Programs; hence the student should review the various options and select the program which best meets his career objectives.

Radio/Telephone Maintenance

Airline Command Pilot

Developmental Courses

*Avionics

Embry-Riddle students come from all fifty states and over 60 foreign countries, with a wide variety of educational and experience backgrounds. In order to assist students in achieving the necessary basic skill level to succeed in college work, ERAU provides special courses in reading, mathematics, communications and English Language usage. These courses are available to all degree and certificate students, and may be required of certain students.

Academic Advising

Each student is assigned a faculty advisor who will assist the student in determining and carrying out a program which will meet the individual's educational objectives. Faculty academic advisors post a schedule of office hours and students should feel free to call on their advisors at any time assistance is desired.

The student should understand that he or she is responsible for maintaining a record of progress and for assuring that all requirements for completion of the program in which enrolled are met.

General Education Requirements

The General Education program of the University is designed to avoid narrowness of specialization and to supplement the professional career training provided in each major degree program. Each student is expected to achieve proficiency in the basic communicative skills of writing, speaking and mathematics and to develop those qualities and capabilities most valuable for the general welfare of the individual and society.

To provide these skills and knowledge, the following General Education requirements must be completed by all candidates for the bachelor's degree. Additional courses in one or more of these disciplines are required in some degree programs.

Number	Subject	Credits
COMPUT	ER TECHNOLOGY	
CT 209	Introduction to Computers	3
ECONON	IICS	
EC 110	Economics I or EC 210 Econ.	
	II	3
HUMANI	TTIES	
HU 120	Communications I	- 3
HU 121	Communications II	3
HU 220	Communications III	3
HU 221	Technical Report Writing	2
HU 250	Logic or HU 340 Philosophy	3
MATHEN	MATICS	
	so courses in basic college morb	

At least two courses in basic college mathematics containing some algebra. MA 111 & 112 or MA 120 & 220, or MA 140 & 141, or MA 240 & 241

^{*}Under development.

PHYSICAL SCIENCE
PS 101 Basic Chemistry or PS 105
Chemistry with Lab (4
hours) 3
PS 103 Basic Physics, or PS 201
Physics I with Lab (5 hours) 3
SOCIAL SCIENCE
SS 210 Sociology or SS 220
Psychology 3

AIR FORCE RESERVE OFFICER TRAINING CORPS PROGRAM

Embry-Riddle students may enroll in the on-campus Air Force Reserve Officers Training Corps (AFROTC) program and receive academic credit in an area of concentration in the Aeronautical Science, Aeronautical Studies, Aviation Management and Management programs or as elective course credit in certain of the remaining Embry-Riddle programs. The AFROTC curriculum is designed to prepare college men and women for initial active duty assignments as Air Force commissioned officers.

Any qualified student may pursue the AFROTC program. Both two and four year programs are available to male and female students. AFROTC courses can be individually tailored to accommodate the student provided at least four trimesters remain prior to graduation. AFROTC courses are not offered at Embry-Riddle during the summer trimester.

Enrollment procedures for the first two years of the four year program, known as the General Military Course (GMC), are the same as for any other college course. One simply selects an AFROTC class card during registration. To enter the last two years of the four year program, the Professional Officers Course (POC), the student must have taken the Air Force Officer Qualifying Test (AFOQT), an Air Force medical examination, and completed a four-week summer field training session at an active Air Force base. These

actions will be accomplished during your first two years as a GMC cadet.

The two year program is basically the same as the last two years of the four year program but will be preceded by a sixweek summer field training session. The two year program student must also take the AFOQT and Air Force medical examination prior to summer field training. Students interested in the two year program should contact the closest AFROTC detachment for AFOQT, medical examination, initial interview and summer field training scheduling. This information should then be forwarded to Detachment 157 here at Embry-Riddle.

Text books for all AFROTC courses are free. Students enrolled in the Professional Officers Course receive a \$100 per month tax free subsistence allowance up to a total of \$2,000. In addition, students attending summer field training will receive travel pay to and from the designated Air Force base as well as pay for attending the field training session.

Two, three and four year Air Force ROTC scholarships are also available to selected students. Historically Embry-Riddle students have enjoyed a high selection rate for AFROTC scholarships that pay for full tuition, textbooks, lab and incidental fees, and \$100 per month. An item of particular interest is that the AFROTC scholarship pays for the required flight training for the Bachelor of Science degree in Aeronautical Science at Embry-Riddle. High school students interested in a four year scholarship must apply before 31 December of the year prior to high school graduation.

Army Reserve Officer Training Corps Program

The Army Reserve Officer Training Corps program is available to EmbryRiddle students through a cooperative arrangement with nearby Stetson University. Most Army ROTC classes are offered on the Embry-Riddle campus, with some of the advanced classes offered only on the Stetson campus. For additional information on the Army program, interested students should write to Army ROTC, Stetson University, DeLand, Florida 32720.

Cooperative Education Program

Cooperative Education is an optional program open to all full-time students enrolled in an academic discipline at Embry-Riddle. The concept is based on the theory that not all learning is limited to the classroom but is dependent upon and reinforced by practical work experience. Academic credit is allowed for up to six trimesters of work at selected industries and agencies.

In this program the student works fulltime on a work-training assignment related to his academic program for one trimester at a time, alternating with full-time school attendance for one trimester at a time until the required number of work assignments are completed. The student earns a fulltime salary while on work assignment at a rate commensurate with the job. Students who have successfully completed a cooperative education program usually find that their work experience is much in their favor in applying for employment upon graduation.

Students interested in the program may apply for an appointment at any time prior to their junior year. One must have completed at least one trimester in residence, be in good academic standing, and normally a United States citizen to be eligible for the program. Participation in the program is contingent upon the avail-

ability of approved work positions and one's qualifications for the positions available.

For additional information on the Cooperative Education program, contact the Office of the Dean of Aeronautical Studies.

Aviation Seminars

For the purpose of maintaining a close relationship with government agencies, industry and general aviation, Embry-Riddle is actively pursuing a program of on-campus aviation educational seminars. The product of this program is the exchange of ideas on current philosophies, trends and techniques that can contribute to the growth and practicability of the curriculum. It also provides an opportunity for visiting aviation associations to become familiar with Embry-Riddle and its contribution to the aviation community.

The groups invited to participate in this program include: corporate aviation managers, air safety organizations, airline management, maintenance professionals, aviation publishers and writers, collegiate flying associations, government aviation agencies and professional flying associations. The course content is keyed to the specialized interest of the seminar group. Expertise is recruited primarily from off-campus sources. Where seminar content meets the criteria established by the Southern Association of Colleges, Continuing Education Units are awarded.

Embry-Riddle works closely with the Daytona Beach Chamber of Commerce and the local hotels to provide the necessary support services. Individuals or organizations interested in participating or developing an educational seminar should direct correspondence to the Dean of the College of Continuing Education.

International Seminars

In addition to the on campus seminars, the University conducts seminars in other countries. The purpose of these programs is to enable the participants to become more aware of the aviation, social, economic and political philosophies and practices of other leading nations and to develop bridges of understanding between the nations visited and the seminar participants.

Seminars are conducted in the Soviet Union and Western Europe, and future seminars will include other areas of the globe.

Most seminars are for three weeks during the Christmas vacation or in the summer. Participants travel overseas by scheduled airlines and travel to the various points of interest as a group by air, rail, ship, or bus. A scheduled seminar in the summer of 1975 included the Paris International Airshow and an opportunity to tour part of France as the pilot of a private four-place aircraft.

Dual Degree Program

In cooperation with Georgia Institute of Technology, Embry-Riddle offers a Dual Degree Program that enables qualified students to complete three years of study at Embry-Riddle and then transfer to Georgia Tech for approximately two additional years of study. Students completing the program can receive baccalaureate degrees from both Embry-Riddle and Georgia Tech. In addition, Embry-Riddle students with exceptional academic records may earn a Georgia Tech master's degree in two to three years following the three academic years spent at Embry-Riddle.

Students seeking enrollment in the Dual Degree Program must plan their academic program at Embry-Riddle to ensure that all prerequisite courses for continuing their study at Georgia Tech are completed. Students must also be recommended by their division chairman and dean. Georgia Tech degree programs open to qualified Embry-Riddle students are as follows:

Bachelor of Engineering and/or Engineering Technology

Civil, Electrical, Engineering Science, Industrial and Mechanical.

Bachelor of Science

Applied Mathematics, Economics, General Management, Health Systems, Information and Computer Science, Industrial Management and Management Science.

Master of Science

Aerospace Engineering, Civil Engineering, Engineering Science and Mechanics, Industrial Management, Information and Computer Science, Mathematics and Mechanical Engineering.

For additional information concerning the Dual Degree Program, interested students should contact the Dean of the College of Continuing Education.

Dual Enrollment

The University has an arrangement with Florida Technological University and Daytona Beach Community College whereby a student may enroll in courses at ERAU and one or both of the other schools at the same time. Such enrollment is available to students taking specific courses in an Area of Concentration which ERAU does not currently offer. The Florida Technological University courses are offered through its Residence Center in Daytona Beach, which is across the street from the ERAU campus.

Servicemen's Opportunity College (SOC)

Embry-Riddle Aeronautical University is a member institution of the Four-Year Servicemen's Opportunity College. As a member, Embry-Riddle recognizes the unique problem confronting active duty service personnel in achieving their educational goals. In recognition of the problem of service personnel, the University offers a Contract for Degree arrangement. This arrangement enables students enrolled in Embry-Riddle courses and programs at off-campus locations who are subsequently reassigned on military orders to installations not served by the University to complete their degree programs.

Students interested in making application for a Contract for Degree may obtain additional information and application forms from Embry-Riddle Directors at off-campus locations or by writing to the Dean, Admissions and Records, Embry-Riddle Aeronautical University, Daytona Beach, Florida 32015.

The University pledges its continuing efforts to make its educational programs available to service personnel in ways consistent with their military assignments.

Eagle University Consortium

Embry-Riddle is one of ten educational institutions participating in the Eagle University Consortium at Fort Campbell, Kentucky. Other participants are Austin Peay State University, Middle Tennessee State University, Murray State University, Nashville State Technical Institute, Tennessee State University, University of Kentucky (Hopkinsville Community College), University of Tennessee at Nashville, Western Kentucky University and the Fort Campbell Independent School System.

Eagle University Consortium provides on-post educational opportunities from high school through graduate study. Embry-Riddle Aeronautical University offers associate and baccalaureate programs in Aeronautical Studies, Aviation Management, Professional Aeronautics and Aviation Maintenance Management. Embry-Riddle also offers a non-degree Airframe/Powerplant technology program designed to prepare eligible military aviation mechanics to take the required examinations for FAA Airframe and Powerplant Maintenance Technician certification.

Students enrolled in Embry-Riddle degree programs through Eagle University may complete all degree requirements at Fort Campbell or at the home campus (under a degree completion program). For additional information concerning Embry-Riddle programs at Fort Campbell, interested personnel should contact the Director, Embry-Riddle Office, Eagle University, (Building 238), P.O. Box 98, Fort Campbell, Kentucky 42223. Telephone: (502) 798-7414 or 7415.

Miami Education Consortium

Embry-Riddle and Barry College of Miami, Florida, have established the Miami Education Consortium (MEC) to serve the continuing education needs of South Floridians. The MEC blends innovative concepts of adult education into a flexible program designed for the student who cannot attend traditional, rigidly scheduled classes. MEC courses are conducted in modern classrooms and laboratories on the Barry College Campus in Miami Shores as well as at Homestead Air Force Base and Miami Air Route Traffic Control Center. Degree requirements of both Embry-Riddle and Barry College may be completed through the MEC.

Through the MEC, Embry-Riddle Aeronautical University offers baccalaureate programs in Aeronautical Studies, Aviation Management, Aviation Maintenance Management and Professional Aeronautics. Also, interested individuals may enroll in selected Barry College degree programs or in one or more courses without designation of a specific degree program.

For additional information concerning the Miami Education Consortium degree opportunities, interested personnel should contact the Director, Miami Education Consortium, Barry College Box 195, Miami, Florida 33161. Telephone: (305) 751-5795. The MEC office is located in Room L-110 of the Library on the Barry College campus.

Residence Center Programs

The military services encourage active duty personnel to further their formal education and to upgrade their technical skills. To assist the U.S. Army and military personnel in achieving their educational goals, Embry-Riddle has established residence centers offering aviation oriented programs at the following installations: Fort Rucker, Alabama; Fort Eustis, Virginia; Fort Benning, Georgia; and Coleman Barracks, Mannheim, Germany. Centers may be activated at additional locations where large concentrations of aviation oriented career personnel are stationed.

Residence centers offer on-post classes leading to associate and baccalaureate degrees in Aeronautical Studies, Aviation Management, Professional Aeronautics, and Aviation Maintenance Management. Though specific courses required in other Embry-Riddle degree programs may be completed at a residence center, other degrees cannot be earned without

matriculation on the home campus. Several locations also offer a non-degree Airframe/Powerplant Technology program designed to prepare eligible aviation mechanics in the military to take required examinations for FAA Airframe and Powerplant Maintenance Technician certification.

Students enrolled in Embry-Riddle Aeronautical University degree programs at a residence center may complete all degree requirements at the center or may elect to transfer to the home campus to complete requirements under a degree completion program. Additional information concerning residence center programs may be obtained from the Director of Residence Centers, Embry-Riddle Aeronautical University, Daytona Beach, Florida 32015.

Inquiries concerning programs available at specific residence centers should be addressed to the appropriate residence center director as follows:

Fort Rucker Residence Center (Building 5007) P. O. Drawer N Fort Rucker, Alabama 36360 Telephone: (205) 255-2138 or 4776

Fort Eustis Residence Center (Building 464) P. O. Box 661 Fort Eustis, Virginia 23604 Telephone: (703) 887-0980

Fort Campbell Office Eagle University Consortium (See Eagle University Consortium on page 31)

Fort Benning Residence Center (Building 35) P. O. Box 2054 Fort Benning, Georgia 32905 Telephone: 682-0775 or 0776 European Residence Center (Army) Coleman Barracks Education Center APO New York 09028 Telephone: (Mil-2137-7391) (Civ-0621-775750)

USAF European Program

The Embry-Riddle USAF European Program was established to serve the educational needs of personnel assigned at selected United States Air Forces in Europe installations. The Program is managed by the Dean of the USAF European Program with offices at Lindsey Air Station, Wiesbaden, Germany. Embry-Riddle courses and programs are now available at the following USAFE installations: Alconbury, Bentwaters/Woodbridge, Lakenheath/Mildenhall, and Upper Heyford RAF stations in England; Ramstein, Zweibrucken, Wiesbaden, Rhein Main, Bitburg, and Spangdahlem Air Bases in Germany; Zaragoza Air Base in Spain; and, at Athenai Airport, Athens, Greece. An Embry-Riddle director is located at each of the above installations.

USAF European Program locations offer certificate programs in aviation maintenance technology and radiotelephone maintenance technology. The program in aviation maintenance technology is designed to provide military aviation maintenance personnel who meet experience eligibility requirements for Federal Aviation Administration aviation maintenance technician certification with the knowledge necessary to successfully complete FAA written, oral and practical examinations in order to obtain FAA certification. The Radiotelephone Maintenance Technology program is designed to assist personnel in preparing for the Federal Communications Commission radiotelephone operator licensing examinations.

In addition to certificate programs, courses leading to associate degrees in Aviation Maintenance Technology, Aeronautical Studies and Professional Aeronautics, as well as baccalaureate degree programs in Aviation Maintenance Management, Aeronautical Studies and Professional Aeronautics are offered. Students enrolled in Embry-Riddle courses at USAF European Program locations may complete all degree requirements at the location where enrolled or may elect to transfer to the home campus for degree completion.

Additional information concerning the USAF European Program may be obtained from the Dean, College of Continuing Education at the home campus or from the Dean of the USAF European Program at Lindsey Air Station in Wiesbaden, Germany. The mailing address of the European Coordinator is as follows:

CINCUSAFE/DPXE

ATTN: Embry-Riddle Aeronautical University

APO New York 09332 Telephone: (Mil-472-3327) (Civ-06121-82-3327)

Information may also be obtained from Embry-Riddle directors at each of the locations served by the USAF European Program. Directors may be contacted through the Education Center at each installation.

Graduate Center

Utilizing the academic facilities of Biscayne College, Embry-Riddle Aeronautical University now offers the Master of Aviation Management degree in Miami.

Applicants who possess a baccalaureate degree from an accredited college or university may be admitted with full graduate standing, provided their background reflects an understanding of the concepts of economics (macro and micro), accounting, statistics and management. Applications will also be accepted from undergraduate students in their last term of study and from graduates of accredited colleges and universities who do not possess all undergraduate prerequisites at the time of application. They will be admitted to graduate study in a provisional status.

This program requires thirty-six credit hours of graduate study with eighteen hours in core courses and the remainder in electives. The breadth of elective courses available to the student provides the student the opportunity to select courses best suited to his or her personal goals. Core courses emphasize the tools and techniques of management; electives emphasize the application of these techniques in the context of aviation management problems.

The program recognizes problems and constraints of full-time working persons who seek to acquire advanced degrees. Special features of the program include:

Attendance during four terms per

year enables part-time students to complete the program in less than two years.

All class periods are taped "live" and stored on cassette tapes so that students may make up classes they are unable to attend because of work commitments.

Classes are scheduled evenings and weekends to meet the needs of students.

Students lacking undergraduate prerequisites may enroll in other graduate courses while fulfilling established prerequisites.

Students may transfer up to twelve credit hours from graduate programs at other accredited colleges and universities.

For additional information concerning the master's program, including applications for admission to graduate study and the Graduate Bulletin, interested individuals should contact the Graduate Center Director, Embry-Riddle Aeronautical University, P.O. Box 786, Miami, Florida 33054. The graduate program office is located in Room 209, Mary Kennedy Hall on the Biscayne College campus. Telephone: (305) 621-5203.





COLLEGE OF AERONAUTICAL STUDIES

COLLEGE OF AERONAUTICAL STUDIES

The College of Aeronautical Studies offers degree programs in:

Aeronautical Engineering
Aircraft Engineering
Technology
Aeronautical Engineering Technology
Aeronautical Studies
Aviation Management
Aviation Maintenance Management
Management

The curriculum divisions of the college are:

Aeronautical Engineering, offering courses in aeronautical engineering, engineering science, and engineering technology.

Aviation Management, offering courses in management, and economics.

Computer Technology, offering courses in computer technology.

Humanities and Social Science, offering courses in communications, humanities and social science.

Mathematics and Physical Science, offering courses in mathematics, chemistry and physics.

The various curriculum divisions provide the basic general education courses in science, mathematics, humanities and social sciences which are a part of the degree programs offered by the College of Aviation Technology and the College of Continuing Education. The degree programs offered by the College of Aeronautical Studies are also supported by courses offered in the College of Aviation Technology.

The degree programs and areas of concentration offered by the College of Aeronautical Studies are designed to offer a wide variety of choices in educational preparation for a career in the broad field of aviation. In addition to degree programs which follow the traditional program of academic studies, several programs offer a combination of academic and technology courses. These provide the student both considerable flexibility in his choice of areas of concentration and thorough preparation in the newly emerging technological skills and knowledge in modern industry.

The faculty in the college is composed of men and women who have both experience in the classroom as teachers and practical experience in their field in professional and technical areas. Visiting professors actively engaged in some related profession such as airport management also bring to the classroom current and relevant information in various fields in aviation. The cooperative education program provides the student an opportunity to gain firsthand experience in a career field as a part of his education and professional preparation.



AERONAUTICAL ENGINEERING PROGRAM

(ECPD Accreditation Expected in 1975)

Introduction

This Bachelor of Science Degree program will prepare the student for a career in aeronautical engineering and prepare him for graduate studies in this field. Career areas include aerospace vehicle and propulsion system research, design, development, ground and flight testing, production, field and liaison engineering. To accomplish this goal, a firm foundation in mathematics, chemistry and physics is offered, after which the engineering sciences, aerodynamics, aircraft structures, propulsion, dynamics and electrical engineering are presented. These subjects are finally combined in a sequence of laboratory and design courses which demonstrate by practical problems, using aeronautical industry-oriented methods, how the theoretical work is applied to actual engineering problems.

Candidates for the B.S. degree in Aeronautical Engineering are often joined in their classes by students enrolled in the Aircraft Engineering Technology program. This joint enrollment provides an opportunity for prospective engineers and technologists to develop clear lines of communication between themselves which will enhance the effectiveness of their work in industry.

Admission Requirements

To enter this program students should have demonstrated a capability in mathematics, physics and chemistry in high school. They should be prepared to enter Calculus I, having demonstrated capability in algebra and trigonometry. A student may prepare himself for this degree by taking MA 140 College Algebra

and MA 141 Trigonometry here at the University, prior to taking calculus.

Transfer Credit

Students having completed previous college work may request an evaluation of their college transcript through the Dean of Admissions and Records.

Advanced Standing

See page 20 for advanced standing for flight credit.

Degree Requirements

The Bachelor of Science in Aeronautical Engineering degree program requires 138 credit hours and may be completed in 9 trimesters. The courses to be taken to earn this degree are listed on page 38.



BACHELOR OF SCIENCE DEGREE

AERONAUTICAL ENGINEERING

Number	Subject	Credits	Number	Subject	Credits
	RIMESTER		SIXTH T		
AE 101	Introduction to Aerospace		ES 304	Fluid Mechanics	3
	Engineering	3	AE 304	Structures I	3
HU 120	Communications I	3	SS 220	Psychology or SS 210	
ET 101	Engineering Graphics I	2		Sociology	3
PS 105	Chemistry I	4	ES 305	Thermodynamics	3 3
MA 241	Calculus I	4	AE 302	Aerodynamics II	
	Salara de la constante	15			15
	TRIMESTER				
HU 121	Communications II	3	SEVENT	'H TRIMESTER	
PS 106	Chemistry II	4	AE 413	Airplane Stability and	
HU 250	Logic	3		Control	13
ET 102	Engineering Graphics II	2	AE 404	Structures II	3
MA 242	Calculus II	4	ES 404	Electrical Engineering I	3
		16	AE 406	Jet & Rocket Propulsion	3
	RIMESTER		ES 307	Metallurgy	3 3 3
MA 243	Calculus III	4			15
PS 201	Physics I	5 3		PRO 12 4 P. CORDO D.	200
EC 210	Economics II	3		TRIMESTER	- 60
HU 220	Communications III	3	AE 420	Airplane Design I	3
		15	ES 405	Electrical Engineering II	3
	TRIMESTER		AE 405	Structures III	3
MA 340	Differential Equations	3	AE 401	Advanced Aerodynamics I	3
ES 201	Statics	3		Humanities/Social	
CT 209	Computer Programming	3		Science Elective	3
PS 202	Physics II	5			1.5
HU 221	Technical Report Writing	2			
		16		RIMESTER	
	RIMESTER		AE 421	Airplane Design II	3
MA 401	Advanced Mathematics I	3		Mathematics Elective	3
AE 301	Aerodynamics I	4		Humanities/Social Science	
ES 302	Solid Mechanics	4 3 3		Elective	3
ES 303	Dynamics	3		Technical Electives	3
SS 120	American History or SS 110			(from courses below)	7.514
	World History	3			15
		16		TOTAL CREDITS	138

TECHNICAL ELECTIVES

Space Mechanics
Wind Tunnel Laboratory
Advanced Solid Mechanics
Heat Transfer
Vibrations
Machine Elements
Advanced Aerodynamics II
Modern Physics
Engineering Measurements Laboratory

Aerodynamics of the Helicopter Advanced Mathematics Courses Continuum Mechanics Flight Technology Special Topics ROTC Cooperative Education Advanced Computer Courses

AIRCRAFT ENGINEERING TECHNOLOGY

(ECPD Accredited)

Introduction

The Bachelor of Science degree program in Aircraft Engineering Technology will prepare the student for a career in such areas as aerospace vehicle and propulsion overhaul, modification, repair, fabrication, production, field and depot service, and testing and maintenance either in the industry or with operating airlines. He will be qualified to work on or to direct work on airframes and powerplants and to support engineering functions in the development of new aircraft and operations. After completing the B.S. AET degree, it is possible to continue for two more trimesters (30 credit hours) and complete the requirements for the B.S. AE degree as well.

An Associate Degree program is available to students who are unable to take the full B.S. AET. It essentially represents the first four trimesters of the B.S. AET degree program and is designed to give the student the fundamentals of the humanities, social sciences and basic mathematical sciences to accompany his F.A.A. Maintenance Technician Certificate. Although the graduate of the associate program will not have as high qualifications in aeronautical engineering and engineering science as the graduate of the bachelors program, he will be qualified to work on airframes and powerplants and to support engineering functions.

Admission Requirements

To enter this program, the student should exhibit an interest in mechanics, engines, working with his hands, building models, etc., and want to get into a field where he will be working with aeronautical hardware. (see page 18.)

Transfer Credit

Students having completed previous aircraft maintenance technology work and/or college work, may request from the Dean of Admissions and Records an evaluation of this work toward a degree.

Advanced Standing

A valid F.A.A. Maintenance Technician Certificate is accepted as satisfying the Maintenance Technology curriculum.

Degree Requirements

The Bachelor of Science Degree in Aircraft Engineering Technology:

All candidates for this degree must fulfill the requirements of the Maintenance Technology curriculum or possess an F.A.A. Maintenance Technician Certificate before enrolling in the courses listed in the fourth trimester. The obtaining of the F.A.A. Maintenance Technology License is also required for the degree. The degree requires 111 academic credit hours as shown below, in addition to the 190 Continuing Education Units awarded for completion of the Maintenance Technology curriculum.

At least twelve hours of electives must be completed on the 300 or 400 course number level in order to meet the 40 credit hour upper division requirement.

The Associate in Science Degree in Aircraft Engineering Technology:

All candidates for this degree must fulfill the requirements of the Maintenance Technology curriculum or possess an F.A.A. Maintenance Technician Certificate before enrolling in the courses listed in the fourth trimester. The obtaining of the F.A.A. Maintenance

Technology Certificate is also required for the degree. In addition, the degree requires 65 academic credit hours as shown below.

BACHELOR OF SCIENCE DEGREE

AIRCRAFT ENGINEERING TECHNOLOGY

		ontinuing Education	Number	Subject	Credit
Number	Subject	Units		RIMESTER	
MT 010	General Aeronautics		HU 220	Communications III	
MT 011	Basic Aircraft Science	21	PS 201	Physics I	
MT 012	Basic Powerplant Science	21	MA 242	Calculus II	
MT 013	Alassic Fowerplant Science	21	EC 210	Economics II	
MT 014	Aircraft Systems Science	21			1
M1 U14	Aircraft Electrical Systems	1400	and the second		
MT 015	Science	21		TRIMESTER	
M1 015	Advanced Reciprocating		AP 202	Physics II	
ACT OF	Powerplant Laboratory	21.5	MA 243	Calculus III	
MT 016	Turbine Engine Laboratory	21	SS 210	Sociology or SS 220	
MT 017	Advanced Airframe			Psychology	
	Laboratory	21.5	ES 201	Statics	1
MT 018	Propellers and Rotocraft		HU 221	Technical Report Writing	
	Laboratory	21		responsible to the same	1
	TOTAL CEU'S awarded		200000000000		,
	upon completion of the			RIMESTER	
	program.	190	CT 209	Computer Programming	
Must ob	tain FAA Maintenance Technology AE 301 Aerodynamics 1				
License (A&P) before conferring of deg	ree.	ES 302	Solid Mechanics	
			ES 307	Metallurgy	
			ET 303	Aircraft Drafting &	
				Detail Design	
Number	Subject	Credits			1
FIRST TE	RIMESTER	Cicano			- 3
	Chemistry I	4		RIMESTER	
S 105				A summer for Course advances of the	
		- 1	AE 304	Aircraft Structures I	- 6
HU 120	Communications I	3	ES 304	Fluid Mechanics	8
HU 120 ET 101	Communications I Engineering Graphics I	3 2	ES 304 ES 303	Fluid Mechanics Dynamics	
HU 120 ET 101 MA 140	Communications I Engineering Graphics I College Algebra	3 2 3	ES 304	Fluid Mechanics	
HU 120 ET 101 MA 140 MA 141	Communications I Engineering Graphics I College Algebra Trigonometry	3 2 3 2	ES 304 ES 303	Fluid Mechanics Dynamics	
HU 120 ET 101 MA 140 MA 141	Communications I Engineering Graphics I College Algebra Trigonometry World History or SS 120	2	ES 304 ES 303	Fluid Mechanics Dynamics Thermodynamics	
HU 120 ET 101 MA 140 MA 141	Communications I Engineering Graphics I College Algebra Trigonometry	2	ES 304 ES 303	Fluid Mechanics Dynamics Thermodynamics Humanities or Social	3
HU 120 ET 101 MA 140 MA 141	Communications I Engineering Graphics I College Algebra Trigonometry World History or SS 120	2	ES 304 ES 303 ES 305	Fluid Mechanics Dynamics Thermodynamics Humanities or Social Sciences Elective	3
HU 120 ET 101 MA 140 MA 141 SS 110	Communications I Engineering Graphics I College Algebra Trigonometry World History or SS 120 American History	2	ES 304 ES 303 ES 305	Fluid Mechanics Dynamics Thermodynamics Humanities or Social Sciences Elective TRIMESTER	3 15
HU 120 ET 101 MA 140 MA 141 SS 110	Communications I Engineering Graphics I College Algebra Trigonometry World History or SS 120 American History TRIMESTER	3 17	ES 304 ES 303 ES 305 SEVENTI- AE 404	Fluid Mechanics Dynamics Thermodynamics Humanities or Social Sciences Elective	3 15
HU 120 ET 101 MA 140 MA 141 SS 110 SECOND HU 121	Communications I Engineering Graphics I College Algebra Trigonometry World History or SS 120 American History TRIMESTER Communications II	3 17	ES 304 ES 303 ES 305 SEVENTH AE 404 HU/SS	Fluid Mechanics Dynamics Thermodynamics Humanities or Social Sciences Elective TRIMESTER Aircraft Structures II	15
HU 120 ET 101 MA 140 MA 141 SS 110 SECOND HU 121 PS 106	Communications I Engineering Graphics I College Algebra Trigonometry World History or SS 120 American History TRIMESTER Communications II Chemistry II	3 17 3 4	ES 304 ES 303 ES 305 SEVENTH AE 404 HU/SS 300-400	Fluid Mechanics Dynamics Thermodynamics Humanities or Social Sciences Elective TRIMESTER Aircraft Structures II Humanities/S.S. Elective	15
HU 120 ET 101 MA 140 MA 141 SS 110 SECOND HU 121 PS 106 MA 241	Communications I Engineering Graphics I College Algebra Trigonometry World History or SS 120 American History TRIMESTER Communications II Chemistry II Calculus I	3 17	ES 304 ES 303 ES 305 SEVENTH AE 404 HU/SS	Fluid Mechanics Dynamics Thermodynamics Humanities or Social Sciences Elective TRIMESTER Aircraft Structures II	15
HU 120 ET 101 MA 140 MA 141 SS 110 SECOND HU 121 PS 106 MA 241 ET 102	Communications I Engineering Graphics I College Algebra Trigonometry World History or SS 120 American History TRIMESTER Communications II Chemistry II Calculus I Engineering Graphics II	2 3 17 3 4 4 4 2	ES 304 ES 303 ES 305 SEVENTH AE 404 HU/SS 300-400	Fluid Mechanics Dynamics Thermodynamics Humanities or Social Sciences Elective I TRIMESTER Aircraft Structures II Humanities/S.S. Elective Technical Electives	13 13
PS 105 HU 120 ET 101 MA 140 MA 141 SS 110 SECOND HU 121 PS 106 MA 241 ET 102 HU 250	Communications I Engineering Graphics I College Algebra Trigonometry World History or SS 120 American History TRIMESTER Communications II Chemistry II Calculus I	3 17 3 4	ES 304 ES 303 ES 305 SEVENTH AE 404 HU/SS 300-400	Fluid Mechanics Dynamics Thermodynamics Humanities or Social Sciences Elective TRIMESTER Aircraft Structures II Humanities/S.S. Elective	15 15 11 11

ASSOCIATE IN SCIENCE DEGREE

AIRCRAFT ENGINEERING TECHNOLOGY

		ontinuing Education	Number MA 141	Subject Trigonometry	Credits
		Units	SS 110	World History or SS 120	
Number	Subject		33 110	American History	1
MT 010	General Aeronautics	21		American minory	17
MT 011	Basic Aircraft Science	21	CECOND	TRIMESTER	47
MT 012	Basic Powerplant Science	21			2
MT 013	Aircraft Systems Science	21	HU 121	Communications II	
MT 014	Aircraft Electrical Systems		PS 106	Chemistry II	4
	Science	21	MA 214	Calculus I	4
MT 015	Advanced Reciprocating		ET 102	Engineering Graphics II	4 2 3
	Powerplant Laboratory	21.5	HU 250	Logic	
MT 016	Turbine Engine Laboratory	21			16
MT 017	Advanced Airframe		THIRD T	RIMESTER	
	Laboratory	21.5	HU 220	Communications III	3
MT 018	Propellers and Rotocraft		PS 201	Physics I	5
M1 010	Laboratory	21	MA 242	Calculus II	4 3
	TOTAL CEU'S awarded		EC 210	Economics II	3
					15
	upon completion of the	190	FOURTH	TRIMESTER	
	program.		AP 202	Physics II	5
	tain FAA Maintenance To		MA 243	Calculus III	4
License (A&P) before conferring of de-	gree.	SS 210	Sociology or SS 220	
		0 110	33 210		3
Number	Subject	Credits	20.201	Psychology	3
FIRST T	RIMESTER	- 00	ES 201	Statics	3
PS 105	Chemistry I	4	HU 221	Technical Report Writing	2 17
HU 120	Communications I	3			
ET 101	Engineering Graphics I	2		TOTAL CREDITS	65
MA 140	College Algebra	3		TOTAL CEU'S	190
APPENDING SALES					



AERONAUTICAL ENGINEERING TECHNOLOGY PROGRAM

(ECPD Accredited)

Introduction

This Associate in Science degree program will prepare the student for a career as a technician in aeronautical engineering. The technician works closely with the aeronautical engineer and develops his ideas into workable hardware. An aeronautical engineer deals with ideas, concepts, designs and the analysis of problems: the technician deals with detail design, fabrication, hardware, operation, test, data reduction and supporting engineering activities. His work requires a firm basis in mathematics and the physical sciences, but not to the extent required by the engineer. The A.S.AET degree is the core of the B.S.AE degree and it is possible, after completing this degree, to go on to obtain the B.S.AE degree.

Admission Requirements

To enter this program, the student

should have exhibited an interest in mechanics, engines, working with his hands, building models, etc., and want to get into a field where he will be working with aeronautical hardware.

Transfer Credit

Having completed previous college work, the student may request an evaluation of his college transcript through the Dean of Admissions and Records. See page 20.

Degree Requirements

The Associate in Science in Aeronautical Engineering Technology degree requires 81 credit hours; normally 5 trimesters are required for completion. The courses required to earn this degree are listed below.

ASSOCIATE IN SCIENCE DEGREE

AERONAUTICAL ENGINEERING TECHNOLOGY

Number	Subject	Credits	Number	Subject	Credits
	RIMESTER		MA 242	Calculus II	4
PS 105	Chemistry I	- 4	EC 210	Economics II	3
HU 120	Communications I	3	in an example	The state of the s	15
ET 101	Engineering Graphics I	2	FOURTH	TRIMESTER	100
MA 140	College Algebra	3	PS 202	Physics II	<
MA 141	Trigonometry	2	MA 243	Calculus III	4
SS 110	World History or SS 120	1000	SS 210	Sociology or SS 220	-
	American History	3		Psychology	1
		17	ES 201	Statics	3
SECOND	TRIMECTER	10000	HU 221	Technical Report Writing	2
	TRIMESTER			recomean resport writing	17
HU 121	Communications II	3	FIFTH T	RIMESTER	17
PS 106	Chemistry II	4			
MA 241	Calculus I	4	CT 209	Computer Programming	3
ET 102	Engineering Graphics II	2	AE 301	Aerodynamics I	- 4
HU 250	Logic	-	ES 302	Solid Mechanics	3
110 250	Logic	3	ES 307	Metallurgy	3
		16	ET 303	Aircraft Drafting &	- 2
THIRD T	RIMESTER		101	Detail Design	40
HU 220	Communications III	3		Detail Design	3
PS 201		3			16
F.5 201	Physics I	3		TOTAL CREDITS	81

AERONAUTICAL STUDIES PROGRAM

Introduction

The Aeronautical Studies program is intended to provide a general aviation oriented course of study operating in parallel with the Aeronautical Science program, while permitting greater flexibility in areas of specialization. The purpose of this curriculum is to allow the student to acquire the knowledge and skills sufficient to permit him to enter one of several areas of specialization in the aviation industry in either the civilian or government sector. Specific career options are determined in large part by the area of concentration selected by the student from those described on the following pages.

The parallel structure of Aeronautical Studies with Aeronautical Science in basic course requirements (except for the flight training courses) makes it possible for the student to transfer to the Aeronautical Science program at any time up to the eighth trimester, providing he has taken the flight training equivalent to that required by Aeronautical Science up to the time of transfer.

Admission

Admission requirements are the same as for any other degree program except in the case of the student selecting flight technology as an area of concentration. In this instance, he must also hold and maintain at least an Airman's Class II Medical Certificate.

Transfer Credit

Students having completed previous college work may request an evaluation of their college transcript through the Dean of Admissions and Records.

Advanced Standing

The determination of advanced standing based on job or training experience is evaluated by the Registration and Records office and approved by the degree program chairman. The University has established standards published in the Evaluation Handbook to aid in this determination. This Handbook is available for student perusal. In the case of flight credit, the Division of Flight Technology is responsible for review and evaluation, as is the Division of Maintenance Technology in the instance of certificate and experience in the area of aviation maintenance.

All requests for advanced standing, MUST be submitted during the student's FIRST trimester at Embry-Riddle. Advanced standing and transfer of credits are explained on pages 20, 21 and 22.

Degree Requirements

The Bachelor of Science Degree in Aeronautical Studies may be earned in eight trimesters. A minimum number of 131 trimester/semester credit hours is required. A minimum cumulative grade point average of 2.0 on a 4.0 point scale is also required which includes all courses taken at the University.

The core program consists of 89 credit hours which are required in the following disciplines:

Discipline	No. of Hours
Aeronautical Science	33
Computer Technology	3
Humanities	17
Mathematics	6
Management/Economics	15
Physical Science	6
Social Science	9
	Total 89

In addition to the core courses, an Area of Concentration is required in order to provide the student with sufficient skills and knowledge in a chosen discipline to enter a specific career field in the broad area of aviation. The following areas of concentration are available. One is to be chosen.

Areas of Concentration	Credit Hours/CEU's
Aeronautical Engineering Air Force Aerospace Studi	42 es
(AFROTC)	42
Airport Management	42
Applied Mathematics	42
Aviation Education	42
Aviation Management	42
Avionics (Under developm	ent) 42
Computer Technology	42
Flight Technology	42

Areas of Concentration Maintenance Technology	Credit Hours/CEU's 17+190
Military Science (Army RO) Radio-Telephone Maintenan	
Technology	42

A general description of each Area of Concentration and the courses required are listed on pages 46-50. Elective courses may be chosen in each area of concentration, but the number of electives varies among the areas.

40 Hours Upper Level

40 credit hours must be taken on the junior and senior levels (300 or 400 designated courses). In some cases all of the open electives must be upper level courses in order to meet this requirement.



Bachelor of Science Degree

Aeronautical Studies

Number	Subject	Credits	Number	Subject	Credits
FIRST TRI	IMESTER:		FIFTH T	RIMESTER:	
AS 100	Foundations of Aeronautics	. 4	HU 250	Logic or HU 340 Philosophy	3
AS 101	History of Aviation	3	MS 110	Accounting I	3 3
HU 120	Communications I	3	EC 210	Economics II	- 3
*MA 111	College Math for Aviation I	3	SS 110	World History or SS 120	
**AC	Area of Concentration	3		American History	3
		16	AC	Area of Concentration	3
SECOND	TRIMESTER:				15
AS 102	Navigation I	3	200000000000		
AS 103	Flight Rules & Regulations	3		RIMESTER:	
HU 121	Communications II	1	HU/SS	Elective (Humanities/Social	
		3		Science upper div. course)	3
*MA 112	College Math for Aviation II	1	AS 307	Flight Physiology	2 2
PS 101	Basic Chemistry	3	HU 221	Technical Report Writing	
AC	Area of Concentration	18	MS 305	Mgmt. Analysis & Concepts	3
		18	AC	Area of Concentration	6
	RIMESTER:		110	THE OF COMMENT	16
AS 201	Meteorology	3			0.00
HU 220	Communications III	3	SEVENT	H TRIMESTER:	
*PS 103	Basic Physics	3	AS 303	Government & Aviation	3
MS 200	Principles of Management	3	HU/SS	Elective (Humanities/Social	
CT 209	Introduction to Computers	3	110/55	Science upper div. course)	3
AC	Area of Concentration	3 18	AC	Area of Concentration	12
		18	AC	Area of Concentration	18
FOURTH	TRIMESTER:				- 17
	Basic Aerodynamics	3	EIGHTH	TRIMESTER:	
***AS 211		3	AS 405	Aviation Law	3
EC 110	Economics I	3	AS 409	Aviation Safety	3 3 9
SS 220	Introduction to Psychology	3	AC	Area of Concentration	
AC	Area of Concentration	3	0.00		15
NO	Area of Concentiation	15		TOTAL CREDITS	131
		1840			10000

Areas of Concentration

- 1. Aeronautical Engineering
- 2. Air Force Aerospace Studies (AFROTC)
- 3. Airport Management
- 4. Applied Mathematics
- 5. Aviation Education
- 6. Aviation Management

- 7. Avionics (Under development)
- 8. Computer Technology
- 9. Flight Technology
- 10. Maintenance Technology
- 11. Military Science (Army ROTC)
- 12. Radio-Telephone Maintenance

Maintenance Technology: Upper Division Elective (300 or 400 level)

Flight Technology: AS 203, Aircraft Engines-Reciprocating

^{*}For Aeronautical Engineering and Applied Mathematics Areas of Concentration, these courses may be replaced with other similar courses, as shown in the specific Area of Concentration listing.

^{**}If the courses taken in the Area of Concentration are less than 3 credit hours, the additional credit is to be made up with electives.

^{***}For the Flight Technology and Maintenance Technology Areas of Concentration, this course is replaced as indicated below:

Areas of Concentration

Aeronautical Engineering: This area gives the individual a strong base in science and technology for entering many areas of the aviation industry. It should be noted that the student must begin work in this area in his first trimester and must have the necessary prerequisites for the designated required courses. The Associate of Science Degree in Aeronautical Engineering Technology may be earned by taking this area of concentration, the required engineering mathematics courses and one additional trimester of course work. Reference should be made to the description of this degree on page 42. The following mathematics and physics courses are required in place of the ones listed in the vertical outline on page 45.

Courses listed	Courses required
MA 111	MA 140
MA 112	MA 141
PS 103	PS 201
AS 209	AE 301

Required	COURSES!
resquires.	CONTRACT.

Number	Subject	Credits
MA 241	Calculus I	4
MA 242	Calculus II	4
MA 243	Calculus III	4
ES 201	Statics	3
ES 302	Solid Mechanics	3
ES 304	Fluid Mechanics	3
AE/ES	Elective (300-400 level)	10
	Total	31
	Open Electives	9
	TOTAL	40

Air Force Aerospace Studies: This program provides the background for the individual who desires to enter the Air Force as a military pilot trainee. Successful completion of this program qualifies the graduate for a commission as an officer in the United States Air Force. Required courses:

Number	Name	Credit
AF 101	Air Force Aerospace Studies	1
AF 102	Air Force Aerospace Studies	1
AF 201	Air Force Aerospace Studies	i
AF 202	Air Force Aerospace Studies	1
AF 301	Air Force Aerospace Studies	3
AF 302	Air Force Aerospace Studies	3
AF 401	Air Force Aerospace Studies	3
AF 402	Air Force Aerospace Studies Electives approved by AFROTC Professor of Aerospace Studies	3
	(300-400 level)	9
	Total	25
	Open electives	17
	TOTAL	42

Airport Management: This area of concentration integrates academic studies with the practical experience of Airport Management. Twelve of the 30 credit hours required for this program are achieved through the Cooperative Education Program discussed on page 29. The student will work full time for two trimesters during his junior and senior years in an ERAU approved position at a cooperating airport. The availability of this area of concentration is contingent upon the availability of suitable work positions.

Dag	the market		
Keq	uired	cou	rses:

Required	courses:	
Number	Subject	Credits
MS 313	Personnel Management	3
AS 401		3
MS 408		3
CO 397		3 6
CO 498		6
MS 331		
MS 410		3
MS 421	Small Business Management or	
MS 308	Public Administration	3
	Total	30
	Open Electives	12
	TOTAL	42
	Number MS 313 AS 401 MS 408 CO 397 CO 498 MS 331 MS 410 MS 421	MS 313 Personnel Management AS 401 Airport Development MS 408 Airport Management CO 397 Cooperative Education CO 498 Cooperative Education MS 331 Transportation Principles MS 410 Management of Air Cargo MS 421 Small Business Management or MS 308 Public Administration Total Open Electives

Applied Mathematics: The area of concentration in Applied Mathematics is designed to provide the graduate with the broad mathematical and scientific background necessary to pursue a career in industry or government. The curriculum provides for the mathematical study of general scientific concepts, principles and phenomena. This program will prepare the student for additional studies at the graduate level.

The following mathematics and physics courses are required in place of the ones listed in the vertical outline on page 45.

Courses listed

CT 309

Courses required

3 27

5 9

41

MA 111 MA 112 PS 103		MA 140 MA 141 PS 201
Required	Courses:	
Number	Subject	Credits
MA 241	Calculus & Anal. Geom. I	4
MA 242	Calculus & Anal. Geom. II	4
MA 243	Calculus & Anal. Geom III	4
MA 340	Differential Equations	3
MA 401	Adv. Engineering Math. I	3 3 3
MA 412	Probability & Statistics	3
MA 430	Linear Algebra & Linear	

Adv. Fortran Programming

Electives (Upper division)

Open electives

TOTAL

Prog.

Aviation Education: As more educational institutions recognize the need for aviation oriented courses, the need for teachers in this area will increase accordingly. This area of concentration provides the educational courses necessary for certification in most of the 50 states, while providing the know-how to produce a graduate highly capable of teaching aviation courses in any part of the school system. It should be noted that certification requirements vary from state to state; therefore, the student should take care to establish his total program early in accordance with the regulations pertaining to the state or states in which he intends to seek employment.

This area of concentration requires 20

hours in professional education courses plus 30 hours in one of the following subject areas: Mathematics or Social Science. The professional education courses can be transferred from another college or taken in a cooperative agreement with a local college or university offering courses which lead to a degree in secondary education. These courses are:

6 hours secondary curriculum and materials of education

3 hours psychological foundations of education

3 hours sociological foundations of education

2 hours of methods of instruction in field

6 hours student teaching

Thirty (30) credit hours from one of the following subject areas are required. Courses marked by an asterisk (*) are required as part of the core program and can be counted toward the thirty hours.

	2	
Mathema		West March
Number	Subject	Credits
*MA 140	College Algebra (instead of MA 111)	3
*MA 141	Trigonometry (instead of MA 112)	2 3 3 3 1 4
*CT 209	Intro. to Computers	3
*MA 211	Intro. to Statistics	3
MA 220	College Math II	- 3
MA 241	Calculus & Anal. Geometry	4
MA 242	Calculus & Anal. Geometry I	
MA 243	Calculus & Anal. Geometry III	4
MA 340	Differential Equations	3
MA 403	Complex Variables	3 3 3
MA 412	Probability and Statistics	3
MA 430	Linear Algebra & Prog.	3
Social S	cience:	
SS 110	World History	3
*SS 120	American History	3 3 3 3 3
SS 210	Intro. to Sociology	3
*SS 220	Intro. to Psychology	3
SS 310	Personality Development	3
SS 320	Amer. National Government	
SS 330	Current History	3

Number	Subject	Credits
SS 340	Amer. Foreign Policy	3
*EC 110	Economics I	3
*EC 210	Economics II	3
EC 310	Labor Economics	3
EC 320	Economics of Indus. Organ.	3
	Total	38
	Open electives	4
	TOTAL	42

Aviation Management: The individual who desires to enter the aviation field prepared to move into a responsible position in management or operations should consider this area of concentration. This area of concentration provides the student with flexibility beyond the basic management concepts into the realm of labor economics, marketing, personnel and transportation.

200		
Keq	luire	courses

and desired	COM SCS	
Number	Subject	Credits
EC 310	Labor Economics	3
MS 311	Marketing	3
MS 313	Personnel Management	3
MS 318	Business Data Processing 12 hours of 300 or 400	3
	level EC/MS courses	12
	Total	24
	Open Electives	18
	TOTAL	42

Computer Technology: An increasing use of computers in all phases of the aviation industry makes this area of concentration a timely program to pursue. Whether it be in the manufacturing, marketing, or general operation of aircraft and the many related career areas, this program can be of considerable value. The student augments the core programs of aeronautical science, general science and humanities with training in the theory and utilization of computers and the opportunity to apply the theory employing the necessary hardware.

Required	courses	
Number	Subject	Credits
CT 309	Fortran Programming	3
CT 310	Business Programming	3
CT 312	Assembly Language	-
emen	Programming	3
CT 320	Advanced Business	
	Programming	3
MA 222	Business Statistics	3 3 3
MS 318	Business Data Processing	3
CT 350	Modeling Using Computers	3
MS 319	Management Information Systems	3
CT 401	Data Structures and	3
THE STATE OF	Operating Systems	
	for Business	3
CT 410	Computer Data Structures	3
CT 420	Operating Systems &	
	Assembly Language	3
	Total	33
	Open Electives	9
	TOTAL	42

Flight Technology

(Fixed Wing or Rotary Wing)

If this area of concentration is chosen, one must take the courses necessary to qualify as a commercial pilot with the instrument rating. Flight credits may be accepted from a regionally accredited college or may be awarded to current military and commercial airline pilots who hold the appropriate FAA ratings in either fixed wing or rotary wing aircraft. The Division of Flight Technology will provide flight evaluations to validate other types of previous flight experience for credit.

Rotary wing training is not offered, but is accepted with the appropriate FAA certificates.

The requirements for the Area of Concentration in Flight Technology may be met as indicated below.

Academic Credit

The student may meet the requirements for the Area of Concentration in Flight Technology through successful completion of the following ERAU courses or their equivalent:

(AS 203 replaces AS 211)	Credits
AS 210 Aircraft Systems and	
Components	3
AS 302 Navigation II	3
AS 311 Aircraft Engines - Turbin	e 3
AS 308 Aircraft Performance	3
*FA 101 Primary Flight	2 2
*FA 112 Basic Flight	2
*FA 113 Single Engine Transition	0
*FA 201 Advanced Flight I	2 2
*FA 202 Advanced Flight II	2
*FA 301 Instrument Flight	2
Upper division electives	
(300 or 400 level)	9
Electives	11
TOTAL	42 Credits
satisfact or civilian trained rot	ary wine com-

*Military or civilian trained rotary wing commercial pilots with Rotorcraft-Helicopter and Instrument-Helicopter ratings may receive credit for these courses after satisfactory evaluation of their experience. Credit for other core and area of concentration courses may be granted according to the procedures listed under "Admission to the University - Advanced Standing".

Continuing Education Units

The student may meet the requirements for the Area of Concentration in Flight Technology through acquiring a minimum of Continuing Education Units as follows:

			Units
FP 100	Private Pilot Flight		6.4
	Commercial Flight		19.9
	Instrument Flight		5.5
FT 100	Private Pilot Ground School		6.0
FT 200	Commercial Ground School		22.5
FT 301	Instrument Ground School		7.5
	Total awarded at com- pletion of program.	67.8	Units

In addition, he must take the academic courses shown:

courses	s anown.	Credit	Hours
AS 210	A/C Systems and Components	3	
AS 311	A/C Engines - Turbine	3	
AS 308	A/C Performance	3	
	Upper division electives (300 or 400 level) Science/Technology	14	
	electives	9	
	Electives	7	
	TOTAL		39

Maintenance Technology: The individual who wishes to combine maintenance training and experience with an academic degree program and who may be interested in the supervision of aircraft maintenance activities will find that this area fills his requirements. This program integrates the knowledge and experience of aircraft and powerplant maintenance with the broader perspective of management, science and the humanities. The requirements may be met by completing one of the following programs of study:

On campus Maintenance Technology Curriculum

USAF European Program Technology Curriculum

Possession of a valid FAA Maintenance Technician (A&P) License plus 17 upper division credit hrs.

Campus Maintenance Technology Curriculum

		ntinuing
Number	Subject	Units
MT 010	General Aeronautics	21
MT 011	Basic Aircraft Science	21
MT 012	Basic Powerplant Science	21
MT 013	Aircraft Systems Science	21
MT 014	Aircraft Electrical Systems Science	21
MT 015	Advanced Reciprocating Powerplant Laboratory	21.5
MT 016	Turbine Engine Laboratory	21
MT 017	Advanced Airframe Laboratory	21.5
MT 018	Propellers and Rotocraft Laboratory	21
	TOTAL CEU's awarded at the completion	
	of the program.	190
	Electives (upper division) cred	it hrs. 17

USAF EUROPEAN PROGRAM MAINTENANCE TECHNOLOGY CURRICULUM

0071	Lotto: Little attribut	Hours		U.	ours
MT 110	General Aeronautics	2	MT 227	Advanced Airframe Science	ours
MT 111	Basic Airframe Science	3		Laboratory	1
MT 112	Basic Powerplant Science	2	MT 228	Propeller Science Laboratory	1
MT 113	Aircraft Systems Science	2	MI 2 220	credit hours	76
MT 120	General Aeronautics	- 2		Electives (upper division)	30
MI 120	Laboratory	1		credit hours	0
MT 121	Basic Airframe Science			Total required for degree	
174.4 1.4.1	Laboratory	1			131
MT 122	Basic Powerplant Science		3.61114	Colombia March Co.	
	Laboratory	1		y Science and Tactics: Success	
MT 123	Aircraft Systems Science		completi	on of this four-year Army RO	TC
	Laboratory	1	program	will guarantee a commission	in
MT 214	Aircraft Electrical Systems			Army. This area of concentrati	
	Science	3		ed in cooperation with Stets	
MT 215	Reciprocating Engine Science	3			MJ11
MT 216	Turbine Engine Science	3	Universi	The state of the s	1.00
MT 217	Advanced Airframe Science	3	Number		edit
MT 218	Propeller Science	3	MY 101 &		4
MT 224	Aircraft Electrical Systems		MY 201 8		4
(4) I 224	Science Laboratory	1:	MY 301 &		4
MT 225			MY 401 &	402 Advanced Military Science	4
M1 223	Reciprocating Engine Science			Et al ar print	16
	Laboratory	1.		Electives (Upper Division)	12
MT 226	Turbine Engine Science	100		Open Electives	14
	Laboratory	1		Total	42

RADIOTELEPHONE MAINTENANCE TECHNOLOGY

The Radiotelephone Maintenance Technology certificate program offered at European Program (USAF) locations consists of a series of theory and laboratory courses in the fundamental principles of electricity and electronics and electronic circuits and systems. The curriculum is designed to assist experienced electrical/electronics personnel in preparing for the Federal Communications Commission radiotelephone operators licensing examinations. The program is designed to prepare the individual for both the FCC Second and First Class Radiotelephone Operators Licenses.

Number	Subject	Credits
EL 101/1111	Basic Concepts, DC Circ.	
	and Lab	4
EL 102/1121	Fund. AC & DC Circuit	
	Analysis & Lab	4
EL 103/113 V	acuum Tube & Semi-Cor	nd.
	Fundamentals & Lab	4

Number	Subject	Credits
EL 104/1	14 Basic Elec. Circuits &	
	Systems & Lab	4
EL 205	Electronic Circuits and	
	Systems Technology	3
EL 206	Broadcast Theory and	
	Operation	3
	Electives (upper division)	20
	TOTAL	42



ASSOCIATE IN SCIENCE DEGREE

AERONAUTICAL STUDIES

Number	Subject RIMESTER	Credits	Number HU 220	Subject Communications III	Credits 3
AS 100	Foundations of Aeronautics	4		Electives	6
AS 101	History of Aviation	3			15
HU 120	Communications I	3	FOURTH	TRIMESTER	
MA 111	College Mathematics	- 1	AS 209		3
	for Aviation I Elective	2	AS 211	Aircraft Engines and	
	Elective	15	MC 200	Systems Principles of Management	3
SECOND	TRIMESTER		MS 200	Electives	6
AS 102	Navigation I	3		Litterior	15
AS 103	Flight Rules and Regulations	3	EIETH T	RIMESTER	
HU 121	Communications II College Math for Aviation II	3	AS 307	Flight Physiology	2
MA 112 PS 101	Basic Chemistry	3	EC 110	Economics I	3
13.101	Elective	2	AS 303	Government and Aviation	3
	100	17	HU 221	Technical Report Writing	2
THIRD T	RIMESTER	-	SS 220	Introduction to Psychology	13
AS 201	Meteorology	3		TOTAL CREDITS	75
PS 103	Basic Physics	3		TOTAL CREDITS	

ASSOCIATE IN SCIENCE DEGREE

AERONAUTICAL STUDIES

	(Flight A	ttendant)		
Number	Subject	Credits	Number	Subject	Credits
	RIMESTER		PS 103	Basic Physics	3
AS 100	Foundations of Aeronautics	4	HU 220	Communications III	3
AS 101	History of Aviation	3		*Specified Electives	6
HU 120	Communications I	3			1.5
MA 111	College Math for		FOURTH	TRIMESTER	
	Aviation I	3	SS 120	American History	3
	Elective	2	AS 211	A/C Engines & Systems	3
	200	15	MS 200	Principles of Management	3
SECOND	TRIMESTER			Electives	6
SS 210	Introduction to Sociology	3			15
SS 220	Introduction to Psychology	3	FIFTH T	RIMESTER	
HU 121	Communications II	3	AS 307	Flight Physiology	2
MA 112	College Math for Aviation I	3	EC 110	Economics I	. 3
PS 101	Basic Chemistry	3	AS 303	Government and Aviation	3
10.101	Elective	2	HU 221	Technical Report Writing	2
	Literate	17	SS 310	Personality Development	3
THIRD T	RIMESTER			The state of the s	13
AS 201	Meteorology	3		TOTAL CREDITS	75

^{*}Specified Electives: The student will select 6 credit hours from either of the following:

A foreign language, or
 A college course in First Aid and a college course in Geography (to be taken at a local college or university and credit transferred).

AVIATION MANAGEMENT PROGRAM

Introduction

The primary objectives of this program are to: (1) Prepare graduates for a wide variety of staff, operational and executive positions within the various segments of aviation. (2) Provide the necessary undergraduate foundation to do successful graduate study. By choosing elective courses in an appropriate area of concentration, each student has the opportunity

to tailor his academic program to better meet his specific career objectives.

If the student desires an area of concentration, he may choose from: Air Transportation Management, Airport Management, Aeronautics, Computer Technology, Applied Mathematics, Air Force ROTC or Army ROTC. Appropriate choices will better prepare the student to enter career fields with management job opportunities such as shown below.

Career Fields	Management Job Opportunities
Fixed Base Operation (Fixed Base Operators and Aircraft Service Organizations)	Line Services Manager Aircraft Salesman Air Taxi Operator Operations Manager Purchasing Agent
Airport Management (Public and Private Airports)	Airport Manager Airport Planning Specialist Contractor's Negotiator Maintenance & Operations Manager Public Relations Representative
Aircraft and Components Manufacturing (General Aviation and Commercial Manufacturers, Avionics and Engine Manufacturers)	Manufacturer's Representative Avionics Salesman Market Research Analyst Cost Evaluator Production Manager
Aviation Service Organizations (Insurance Companies, Banks, Stock Brokerages, Educational Institutions, Consulting Organiza- tions, Freight Forwarders and Suppliers)	Aviation Insurance Underwriter Airline Securities Analyst Finance Company Representative Air Transportation Consultant Fuel Company Representative
Government Agencies (FAA, CAB, Department of Transportation, ICC and Various State Aviation Bureaus)	FAA Facilities Planner CAB Economic Analyst Transportation Specialist Budget Manager Aviation Education Specialist
Airline Management (Trunk, Feeder and Commuter Airlines)	Cargo Sales Representative Customer Service Manager Schedule Planner Financial Analyst Personnel Representative

Admission Requirements

There are no special requirements for admission to this program; see page 18 for general requirements.

Transfer Credit

Students having completed previous college work may request an evaluation of their college transcript through the Office of Admissions and Records.

Degree Requirements

The Bachelor of Science Degree requires 131 trimester academic credit hours to be completed within 8 trimesters (assuming no transfer credits are applied). The Associate of Science Degree requires 65 trimester academic credit hours to be completed within 4 trimesters (assuming no transfer credits are applied).

Program Description

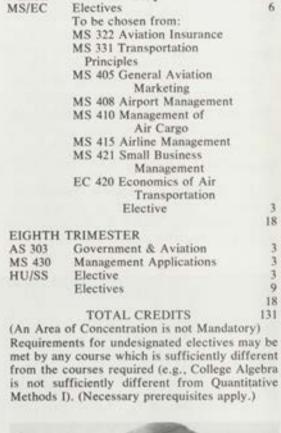
The Bachelor of Science Degree Program emphasizes a general education along with appropriate specialization to prepare for a career in aviation management. Required courses include: humanities, social sciences, aeronautical science and management. In addition, the 21 hours of undesignated electives allow one to take courses of his choice to help meet his own educational goals. The undesignated electives may be taken in one of the areas of concentration.



BACHELOR OF SCIENCE DEGREE AVIATION MANAGEMENT

Number

	AVIATIO	N MA
Number		Credits
FIRST TE	RIMESTER	
HU 120	Communications I	3
SS 110	World History or 120	
	American History	3
MS 110	Accounting I	3
EC 110	Economics I	3
MS 200	Principles of Management	3 3 3 15
		15
SECOND	TRIMESTER	
HU 121	Communications II	3 3 3 3 15
MA 120	Quantitative Methods I	3
PS 101	Basic Chemistry	3
MS 112	Accounting II	3
EC 210	Economics II	3
		15
THIRD T	RIMESTER	
PS 103	Basic Physics	3
HU 220	Communications III	3
HU 250	Logic	3
MA 220	Quantitative Methods II	3
SS 210	Sociology	3 3 3 3 15
	- T.	15
FOURTH	TRIMESTER	
SS 220	Psychology	3
CT 209	Introduction to	
	Computers	3
HU 221	Technical Report Writing	3 2
MS 305	Management Analysis	
	& Concepts	3
MA 222	Business Statistics	3 3 3
EC 310	Labor Economics	3
100000000000000000000000000000000000000		17
FIFTH T	RIMESTER	
MS 313		3
MS 316	Psychology of Management	3
MS 318	Business Data Processing	3
MA 320	Decision Math	3 3 3 3 15
	Elective	3
		15
SIXTH 7	TRIMESTER	
HU 340	Philosophy	3
MS 311	Marketing	3
MS 315		3
MS 319	Management Information	
	Systems	3
	Elective	6
		18
SEVENT	TH TRIMESTER	233
MS 390	Business Law I	3
MS 401	Management Planning	
	& Control	3
MS 420	Industrial Management	3



Subject

Credits



Areas of Concentration

Air Transportation Management

This area of concentration provides the student with specialized knowledge in air transportation. Possible career opportunities are with the commercial airlines, air freight carriers and air charter services.

Air Transportation Management

Required	Courses:	
Number	Subject	Credits
MS 331	Transportation Principles	3
MS 410	Management of Air Cargo	3
EC 420	Economics of Air	
	Transportation	3
One course	e from the following:	3
MS 322	Aviation Insurance	
MS 405	General Aviation Marketing	
MS 408	Airport Management	
MS 415	Airline Management	
MS 421	Small Business Management	
MS 499	Special Topics in Air Trans- portation Management	
	TOTAL	1.2

Aeronautics: The tremendous expansion of aviation technology has accelerated the demand for appropriately educated personnel for careers related to the flight, regulatory and technical aspects of the aviation industry. Through the use of flight and/or Air Science courses as electives, this area of concentration prepares the student for more technically oriented aviation management career paths. Graduates knowledgeable in the technology and regulation of aviation combined with a solid background in management, may pursue challenging and rewarding careers such as in aircraft and avionics sales or with a governmental regulatory agency.

Aeronautics

The fo	ollowing courses are requir	ed:
Number	Subject	Credits
AS 100	Foundations of Aeronautics	4
AS 211	A/C Systems and Engines	3

Number	Subject	Credits
AS 201	Meteorology	3
AS 405	Aviation Law	3
AS 409	Aviation Safety	3
	Total Credits	16

Airport Management: This area of concentration integrates academic studies with the practical experience of airport management. Twelve of the 24 credit hours required for this program are achieved through the Cooperative Education Program discussed on page 29. The student will work full time for two trimesters during his junior and senior years in an ERAU approved position at a cooperating airport. The availability of this area of concentration is contingent upon the availability of suitable work positions.

Required Courses:

Required	Courses;	
Number	Subject	Credits
MS 331	Transportation Principles	3
MS 408	Airport Management	3
AS 401	Airport Development	3
MS 308	Public Administration	3
CO 397	Cooperative Education	- 6
CO 497	Cooperative Education	6
	TOTAL	24

Applied Mathematics: This area of concentration is designed to augment the core courses in management, general science and humanities, with additional focus on mathematics, applied engineering mathematics, applied management mathematics and applied computational mathematics. It is oriented to provide the student with the knowledge and skills required to interface management and operational problems with mathematics and computer technology.

Required Courses

Number	Subject	Credits
MA 241	Calculus I (replaces MA 220)	4
MA 242	Calculus II	4
MA 243	Calculus III	4
MA 300	Applied Logic	3

MA 430	Numerical Analysis	3
MA 412	Probability and Statistics	3
	TOTAL	21

Computer Technology: The increasing use of computers in all phases of the aviation industry makes this area of concentration a timely program to pursue. Whether it be in manufacture, marketing, or general operation of aircraft and the many related career areas, this program can be of considerable value. The student augments the core courses in management, general science and humanities, with training in the theory and utilization of computers and the opportunity to apply the theory employing the necessary hardware.

F9	6	1 00	
Keq	uireo	d Cou	rses:

readminen	COME SES.	
Number	Subject	Credit
CT 309	Fortran Programming	3
CT 310	Business Programming	3
CT 320	Advanced Business Programming	3
CT 401	Data Structures and Operating Systems for	
	Business TOTAL	3 12

Air Force Aerospace Studies: This program provides the background for the individual who desires to enter the Air Force as a military pilot trainee. Successful completion of this program qualifies the graduate for a commission as an officer in the United States Air Force.

Required Courses:

Courses:	
Name	Credit
U.S. Military Forces General	
Military Course (GMC)	1
U.S. Military Forces General	
Military Course (GMC)	1
The Development of Air	
Power General Military	
Course (GMC)	1
The Development of Air	
Power General Military	
Course (GMC)	1
	Name U.S. Military Forces General Military Course (GMC) U.S. Military Forces General Military Course (GMC) The Development of Air Power General Military Course (GMC) The Development of Air Power General Military

AF 301	National Security Forces in Contemporary American Society Professional	
AF 302	Officers Course (POC) National Security Forces	3
	in Contemporary American Society Professional Officers Course (POC)	3
AF 401	Air Force Leadership and Management Professional Officers Course (POC)	3
AF 402	Air Force Leadership and Management Professional	
	Officers Course (POC)	3
	TOTAL	16

Military Science and Tactics: Successful completion of this four-year Army ROTC program will guarantee a commission in the U.S. Army. This area of concentration is offered in cooperation with Stetson University.

Number	Subject Cr	edit
MY 101 & 102	Basic Military Science	4
MY 201 & 202	Basic Military Science	-4
MY 301 & 302	Advanced Military Science	4
MY 401 & 402	Advanced Military Science	4
	TOTAL	16



Associate of Science Degree

AVIATION MANAGEMENT

Introduction

The objective of this program is to provide an elementary knowledge of aviation management. This program is very similar to the first four trimesters of the Bachelors Program. Career fields open to graduates with this degree include: Fixed Base Operation, Airport Management, Aircraft and Component Manufacturing, Airline Management and Government Agencies. (See page 52.)

NOTE: If the B.S. degree is desired, the required MA 120 and 220 replaces MA 111 and MA 112. Also an additional 3 hour elective would be required.

Number	Subject	Credits	Number	Subject	Credits
FIRST TR	RIMESTER		PS 103	Basic Physics	3
HU 120	Communications I	3			18
SS 110/	World History or		FOURTH	TRIMESTER	
SS 120	American History	3	CT 209	Introduction to Computers	3
MA 111	College Mathematics for		AS 303	Government & Aviation	3
100000000	Aviation I	3	MS 305	Management Analysis	
MS 110	Accounting I	3		& Concepts	3
MS 200	Principles of Management	- 3	MS 390	Business Law I	3
		15	HU 221	Technical Report Writing	2
SECOND	TRIMESTER		MS	Elective	3
HU 121	Communications II	3		To be chosen from:	
PS 101	Basic Chemistry	3		MS 311 Marketing	
MA 112	College Mathematics for			MS 313 Personnel	
	Aviation II	3		Management	
EC 110	Economics I	3		MS 316 Psychology of	
MS 112	Accounting II	3		Management	
3442 334	1,000,000,000	15		MS 322 Aviation Insurance	
THIRD T	RIMESTER			MS 331 Transportation	
HU 250	Introduction to Logic	3		Principles	
HU 220	Communications III	3		MS 421 Small Business	
EC 210	Economics II	3		Management	
SS 210	Introduction to Sociology	3			17
SS 220	Introduction to Psychology	3		TOTAL CREDITS	65

BACHELOR OF SCIENCE DEGREE

AVIATION MAINTENANCE MANAGEMENT

Introduction

The objective of this program is to provide the basic education and specialized knowledge that will prepare maintenance management graduates to enter the aviation industry. The curriculum provides an advantage toward the obtaining of middle and upper level maintenance management positions in such career fields as: Airlines, Fixed Base Operators, Aircraft Companies, Corporate Business Aircraft Fleet Operators and Government. Employment opportunities include:

Operations Manager Maintenance Department Director Assembly Foreman Service Manager Inspector Supervisor Technical Report Writer Field Representative Instrument Workshop Supervisor Overhaul Shop Manager Fixed Base Operator Safety Engineer-Maintenance

Management Customer Service

Admission Requirements

There are no special requirements for admission to this program; see page 18 for general requirements.

Transfer Credits

Students having completed previous college work may request an evaluation of their college transcript through the Dean of Admissions and Records.

Degree Requirements:

The Bachelor of Science program re-

quires the completion of the Maintenance Technology curriculum plus 101 academic credit hours. The Maintenance Technology requirement may be met by completing one of the following programs of study:

On campus Maintenance Technology Curriculum

OF

USAF European Program Technology Curriculum (see p. 50)

OF

Possession of a valid FAA Maintenance Technician License

The Associate degree requires the completion of the Maintenance Technology Curriculum plus 65 academic credit hours. The Maintenance Technology Curriculum may be met by either of the three programs listed for the bachelors degree.

BACHELOR OF SCIENCE DEGREE

AVIATION MAINTENANCE MANAGEMENT

		Continuing Education	Number MA 111	Subject College Mathematics for	Credits
Number	Subject	Units	MA III	Aviation I	3
MT 010	General Aeronautics	21	MS 110	Accounting I	3
MT 011	Basic Aircraft Science	21	MS 200	Principles of Management	3
MT 012	Basic Powerplant Science	21 21	1000		15
MT 013	Aircraft Systems Science	21			
MT 014	Aircraft Electrical System		SECOND	TRIMESTER	
	Science	21	HU 121	Communication II	3
MT 015	Advanced Reciprocating		PS 101	Basic Chemistry	3
	Powerplant Laboratory	21.5	MA 112	College Mathematics for	
MT 016	Turbine Engine Laborator	y 21		Aviation II	3
MT 017	Advanced Airframe		EC 110	Economics I	3
	Laboratory	21.5	MS 112	Accounting II	3
MT 018	Propellers and Rotocraft				15
	Laboratory	21			
	TOTAL CEU's	190		RIMESTER	25
			HU 220	Communications III	3
FIRST T	RIMESTER	Credits	MA 211	Introduction to	200
HU 120	Communications I	3		Statistics	3
SS 110	World History or 120		EC 210	Economics II	3
	American History	3	PS 103	Basic Physics	3

Number	Subject	Credits	Number	Subject	Credits
HU 250	Introduction to Logic	3	SIXTH TRIME:	STER	
MS 305	Management Analysis		Elec	tives (upper division)	12
100000000000000000000000000000000000000	& Concepts	3	MS/	EC Electives	6
		18	0.00000	e chosen from:	
FOURTH	TRIMESTER		0.7.732	322 Aviation Insurance	
MS 390	Business Law I	3	1,000	331 Transportation	
CT 209	Introduction to Computers	3		Principles	
EC 310	Labor Economics	3	MS	405 General Aviation	
MS 313	Personnel Management	3	1000	Marketing	
SS 220	Introduction to Psychology	3	MS	408 Airport Management	
HU 221	Technical Report Writing	2		410 Management of	
110.221	reclinical Report Willing	17	1110	Air Cargo	
DIDTH T	RIMESTER		MS	415 Airline Management	
SS 210	Introduction to Sociology	3		421 Small Business	
	Psychology of Management	3	Mo	Management	
MS 316		3	200		
AS 303	Government & Aviation	3	EC	420 Economics of Air	
	Humanities Elective			Transportation	10
	(upper division)	3	7.2		18
	Social Science Elective	3		OTAL CREDITS	101
	Elective (upper division)	3	T	OTAL CEU's	190
		18			

ASSOCIATE IN SCIENCE DEGREE

AVIATION MAINTENANCE MANAGEMENT

		Continuing Education	SECOND HU 121	TRIMESTER Communications II	Credits 3
Number	Subject	Units	PS 101	Basic Chemistry	3
MT 010	General Aeronautics	21	MA 112	College Mathematics	
MT 011	Basic Aircraft Science	21		for Aviation II	3
MT 012	Basic Powerplant Science	21	EC 110	Economics I	3
MT 013	Aircraft Systems Science	21	MS 112	Accounting II	3
MT 014	Aircraft Electrical Systems				15
	Science	21	THIRD T	RIMESTER	
MT 015	Advanced Reciprocating		HU 220	Communications III	3
	Powerplant Laboratory	21.5	MA 211	Introduction to	
MT 016	Turbine Engine Laboratory		110000000	Statistics	3
MT 017	Advanced Airframe		EC 210	Economics II	3
	Laboratory	21.5	PS 103	Basic Physics	3
MT 018	Propellers and Rotocraft		HU 250	Introduction to Logic	3
	Laboratory	21	MS 305	Management Analysis	
	TOTAL CEU's	190		& Concepts	3
					18
			FOURTH	TRIMESTER	
FIRST T	RIMESTER	Credits	MS 390	Business Law I	3
HU 120	Communications I	3	CT 209	Introduction to Computers	3
SS 110	World History or 120		EC 310	Labor Economics	3
	American History	3	MS 313	Personnel Management	3 3 2
MA 111	College Mathematics		SS 220	Introduction to Psychology	3
	for Aviation I	3	HU 221	Technical Report Writing	2
MS 110	Accounting I	3			17
MS 200	Principles of Management	3		TOTAL CREDITS	65
		15		TOTAL CEU's	190

BACHELOR OF SCIENCE IN MANAGEMENT

Introduction

The primary objectives of this program are: (1) Prepare graduates for a wide variety of staff, operational and executive positions. (2) Provide the necessary undergraduate foundation to do successful graduate study.

Graduates with this degree are qualified to work in any management career field including such areas as personnel, finance and planning and control.

Admission Requirements

There are no special requirements for admission to this program; see page 18 for general requirements.

Transfer Credits

Students having completed previous

college work may request an evaluation of their college transcript through the Dean of Admissions and Records.

Degree Requirements

This degree requires 131 credit hours as shown below.

Program Description

This program stresses courses in the areas of general education, management and computer related courses. The student may tailor his program to better fit his interests by choosing appropriate elective courses. If the student desires an area of concentration, he may choose from one of three areas of concentration.

BACHELOR OF SCIENCE DEGREE

MANAGEMENT

Number	Subject	Credits	Number	Subject	Credits
	RIMESTER			TRIMESTER	
HU 120	Communications I	3	SS 220	Psychology	3
SS 110	World History or 120		CT 209	Introduction to	
	American History	3		Computers	3
MS.110	Accounting I	3	HU 221	Technical Report Writing	3
EC 110	Economics I	3	MS 305	Management Analysis	- 1
MS 200	Principles of Management	3	1400	& Concepts	3
		15	MA 222	Business Statistics	3
SECOND	TRIMESTER		EC 310	Labor Economics	3
HU 121	Communications II	1		Lator Leonomies	17
MA 120	Quantitative Methods I	3	EIETH T	17.	
PS 101	Basic Chemistry	3		RIMESTER	2.5
MS 112		3	MS 313	Personnel Management	3
	Accounting II	3	MS 316	Psychology of	
EC 210	Economics II	3		Management	3
		15	MS 318	Business Data	
THIRD T	RIMESTER			Processing	3
PS 103	Basic Physics	3	MA 320	Decision Math	2
HU 220	Communications III	3		Elective	3
HU 250	Logic	3		Liective	
MA 220	Quantitative Methods II	2	SIXTH T	RIMESTER	15
SS 210	Sociology	3	HU 340		
00 210	Sociology	3		Philosophy	3
		15	MS 311	Marketing	3

Number	Subject	Credits	
MS 315	Finance	3	
MS 319	Management Information		
	Systems	3	
	Elective	6	
		18	
SEVENT	H TRIMESTER	-	
MS 390	Business Law I	3	
MS 401	Management Planning		
	& Control	3	
MS 420	Industrial Management	3 3 9	
	Electives	9	
		18	
EIGHTH	TRIMESTER		
MS 430	Management Applications	3	
HU/SS	Electives	3 3 12	
	Electives	12	
		18	
	TOTAL CREDITS	131	
(An Area	of Concentration is not Mand		

Requirements for undesignated electives may be met by any course which is sufficiently different from the courses required (e.g., College Algebra is not sufficiently different from Quantitative Methods I). (Necessary prerequisites apply.)

AREAS OF CONCENTRATION

Computer Technology: The increasing use of computers in all phases of industry makes this area of concentration an ideal and timely program to pursue. Whether it be in preparation for staff, operating, or managerial positions, this program can be of considerable value. The student augments the core courses in management, general science and humanities, with training in the theory and utilization of computers and the opportunity to apply the theory employing the necessary hardware. The following courses are required:

Number	Subject	Credits
CT 309	Fortran Programming	3
CT 310	Business Programming	3
CT 320	Advanced Business	
	Programming	3
CT 401	Data Structures and Operating Systems	
	for Business	3
	TOTAL CREDITS	15

Air Force Aerospace Studies: This program provides the background for the individual who desires to enter the Air Force as a military pilot trainee. Successful completion of this program qualifies the graduate for a commission as an officer in the United States Air Force.

Required	Courses:			
Number		Name		Credit
AF 101	Air Force	Aerospace	Studies	1
AF 102	Air Force	Aerospace	Studies	1
AF 201	Air Force			1
AF 202	Air Force			1
AF 301	Air Force			3
AF 302	Air Force			3
AF 401	Air Force			3
AF 402	Air Force			3
	Total			16

Military Science and Tactics: Successful completion of this four-year Army ROTC program will guarantee a commission in the U.S. Army. This area of concentration is offered in cooperation with Stetson University.

Number	Subject Cr	edit
MY 101 & 102	Basic Military Science	4
MY 201 & 202	Basic Military Science	4
MY 301 & 302	Advanced Military Science	4
MY 401 & 402	Advanced Military Science	4
	Total	16







COLLEGE OF AVIATION TECHNOLOGY

COLLEGE OF AVIATION TECHNOLOGY

Introduction

The College of Aviation Technology is comprised of four divisions: Aeronautical Science, Air Force Aerospace Studies, Flight Technology and Maintenance Technology. These divisions, in addition to presenting their own programs, provide technical support and specialized courses to the College of Aeronautical Studies and the College of Continuing Education.

The division of Aeronautical Science provides a college level aviation education heavily oriented to the various technological areas of flight. While the student is obtaining his Bachelor of Science, he is also preparing for his FAA flight ratings. This equips him to enter the aviation field with a combined general college and aviation specialization background.

The division of Air Force Aerospace Studies offers both the two year and the four year AFROTC programs. Any degree program may be selected but either the Aeronautical Science degree program or the Aeronautical Studies degree program (with a Flight Technology area of concentration) provides an extensive background for entry into Air Force pilot training. Other degrees such as Aviation Management provide a broad background for entry into other specialties in the Air Force.

The division of Flight Technology has two distinct programs. One program provides all the academic flight courses for all of the Colleges of the University while the other program is a non-academic certificate program meeting Flight Technology division requirements only.

The division of Maintenance Technology also has two distinct programs, academic and certificate. In the academic program, a student can receive both an Associate in Maintenance Technology degree and preparation for a Maintenance Technician certificate. This combination prepares him to enter the aviation maintenance field level. In the certificate program, he receives preparation for the Maintenance Technician certificate, preparing him to enter the aviation field as a practicing maintenance technician in either airframes or powerplants.

Completion of either of these programs provides a background for entry into various Bachelor degree programs such as Aircraft Maintenance Engineering Technology and Aviation Maintenance Management.

Accreditation

The Aeronautical Science, Flight Technology and Maintenance Technology programs are approved by the Federal Aviation Administration and the state approving agency for veterans training. Also, the Maintenance Technology Division is an FAA approved training center operating under Air Agency Certificate number 277, and the Flight Technology Division conducts flight training under Air Agency Certificate number 8SO-68.



AERONAUTICAL SCIENCE PROGRAM

Introduction

The Aeronautical Science program coordinates academic courses with flight training to prepare the student for a career in aviation. In addition to the academic degree, upon graduation, the student has qualified to be examined for the Federal Aviation Administration Commercial Pilot Certificate with Instrument and Multi-Engine ratings and Flight Instructor Certificate-Airplane. An area of concentration in a related field is a required part of the program; the individual is free to select the area of concentration which best suits his career objectives.

Admission

Students will be admitted who meet the general University requirements for admission and the age and physical qualifications for a flight training program. The requirements for aircraft pilot certificates are stated in Part 61 of the Federal Aviation Regulations. They are:

- a. Student Pilot: 16 years of age.
- b. Private Pilot: 17 years of age.
- c. Commercial Pilot: 18 years of age.

Prior to being accepted into a flight training program, a student must produce evidence that he is qualified for at least the Airman's Class II Medical Certificate. Once accepted, the student is responsible for maintaining a current Airman's Class II Medical Certificate while participating in the flight program.

Admission to the Aeronautical Science degree program is limited to a "one-time" basis. Once a student becomes a candidate for the Bachelor of Science or Associate in Science Degree in Aeronautical Science, he must remain in the Aeronautical Science program until graduation to obtain the degree. If a student transfers from the Aeronautical Science degree program to another program (degree or certificate) within the University, he will not be eligible for return to the Aeronautical Science program.

Transfer of Previous Academic and Flight Experience

Students enrolled in the Aeronautical Science curriculum who have completed flight courses at other accredited institutions of higher education will be granted academic transfer credit for these courses, if the courses were completed with a "C" or higher grade.

For training received in other than accredited institutions, Federal Aviation Regulations establish rules regarding credit. They require that adequate evaluation be accomplished before any flight training credit may be granted.

A student may qualify for advanced placement in an ERAU flight program based on an evaluation by an ERAU designated flight examiner. He may receive academic credit for a flight course by completion of an equivalency examination. The basis for granting full academic credit for ERAU flight courses is an endof-course examination by a designated Embry-Riddle examiner. The student must present evidence of previous training. A transcript of flight time from an FAA approved flight school, or, if a student has not attended an FAA approved school, personal flight logs, must be presented to the examiner before the evaluation can be conducted.

All requests for credit and/or advanced placement for flight or academic courses must be submitted in writing during the first trimester at Embry-Riddle. Advanced standing and transfer of credits are explained on page 20. All requests for evaluation of previous college work are made through the Office of the Dean of Admissions and Records.

Required Flight Courses

The Aeronautical Science Program requires that the student participate in a flight course each trimester. Therefore, if a student enters the University with previous flight credit, he should enroll in the Aeronautical Studies Program until his flight and academic credits coincide with an appropriate term of the Aeronautical Science Program. At that time he may enter the Aeronautical Science Program and complete his degree requirements.

At least one flight course must be completed in residence at Embry-Riddle regardless of any advanced standing or transfer credits which may be granted. Exceptions may be made for qualified fixed wing military trained pilots who are on active duty or have been released from flight duties within the preceding twelve months, or for currently qualified fixed wing airline pilots.

Once a student has enrolled at Embry-Riddle, all subsequent flight courses must be completed in residence at Embry-Riddle. Flight time or flight courses completed elsewhere during enrollment at ERAU will not be credited toward completion of degree requirements. Students who attend other schools without proper approval will not receive academic credit for the courses completed.

Degree Requirements

The Bachelor of Science Degree in Aeronautical Science may be attained in eight trimesters. To earn the degree, a minimum of 131 credit hours is required. These credits consist primarily of flight courses and their corequisites, mathematics, science, basic management, humanities and social studies. General education and aviation-related subjects are combined with flight training to produce a pilot with a high level of competence. The program requires an area of concentration which is to be chosen from the following:

Aeronautical Engineering
Air Force Aerospace Studies
(Air Force ROTC)
Aviation Management
Applied Mathematics
Computer Technology
Military Science and Tactics
(Army ROTC)

The descriptions of the areas of concentration and courses required are shown on pages 46-50.

An Associate in Science in Aeronautical Science is granted upon completion of 75 credit hours and may be obtained in five trimesters. The program consists of flight courses and their prerequisites, mathematics, science, management, humanities and social studies. Incident to completion of the curriculum, the student becomes qualified to be examined for the Federal Aviation Administration Commercial Pilot Certificate with Instrument rating.



BACHELOR OF SCIENCE DEGREE

AERONAUTICAL SCIENCE

FIRST TRIMESTER		SEVENT	H TRIMESTER	
FA 101 Primary Flight	2	FA 310	Multi-Engine	1
AS 100 Foundations of Aeronautics	4	AS 408	Flight Safety	3
AS 101 History of Aviation	3.	AS 308	A/C Performance	3 3 puters 3
HU 120 Communications I	3	CT 209	Introduction to Com	oputers 3
MA 111 College Math for Aviation I	3	AC	Area of Concentrati	
Mil III Conego muni for revision i	15	1075		16
SECOND TRIMESTER		EIGHTH	TRIMESTER	
FA 112 Basic Flight	2) Flight Elective	1
AS 102 Navigation I	3	AC	Area of Concentrati	on 14/17
AS 103 Flight Rules & Regulations	3 3	1,100		15/18
HU 121 Communications II	3	TOTAL C	REDITS (Depending	
MA 112 College Math for Avia. II	3		(Concentration)	131/134
PS 101 Basic Chemistry	3	Following	Areas of Concentration	on are available:
	17		cal Engineering	on one arrangement
THIRD TRIMESTER			Aerospace Studies	
FA 201 Advanced Flight I	2		fathematics	
*FA 113 Single Engine Transition	0		Management	
AS 201 Meteorology	3		Technology	
AS 203 A/C Engines-Recip.	- 3		cience and Tactics	
HU 220 Communications III	3	1,11		The second tree
PS 103 Basic Physics	3		utical Engineering:	
MS 200 Principles of Management	3 3 3	tion of	Aeronautical Scien	ce with Aero-
	17	nautical	Engineering integr	rates the core
FOURTH TRIMESTER			tical Science progr	
FA 202 Advanced Flight II	2		tical Engineering	
AS 209 Basic Aerodynamics	- 3		olid mechanics, flu	
AS 210 A/C Systems & Components	3 3 3			
EC 110 Economics I			and aerodynamics.	
SS 220 Intro. to Psychology	- 3	strengthe	en the student's bac	kground in the
AS 302 Navigation II	3	scientific	area of aviation.	
	17		ollowing mathemati	ce and physics
*NOTE: FA 113 may be taken in conjunction	with			
FA 201 or FA 202.			are required in pla	
			the vertical outline	
FIFTH TRIMESTER		Courses li	sted	Courses required
FA 301 Instrument Flight	2	MA 111		MA 140
AS 311 A/C Engines-Turbine	3	MA 112		MA 141
AS 404 Principles of Instruction I	3	PS 103		PS 201
MS 110 Accounting I	3	Number	Name	Credits
EC 210 Economics II	3	*PS 201	Physics I	5
AC Area of Concentration	3	MA 241	Calculus I	4
	17	MA 242	Calculus II	4
SIXTH TRIMESTER		MA 243	Calculus III	4
FA 404 Flight Instructor-Airplane	1	ES 201	Statics	3
AS 303 Government & Aviation	3	ES 301	Solid Mechanics	3
HU 250 Introduction to Logic	3	ES 304	Fluid Mechanics	3
HU 221 Technical Report Writing	2	AE 301	Aerodynamics I	3 3 4 2
MS 305 Mgmt. Analysis & Concepts	3	AE	Elective	
AS 307 Flight Physiology	2		Total	32
AC Area of Concentration	3		of PS 103 (3 credits)	
	17	Total cree	dit hours required: 134	1

Air Force Aerospace Studies: This program provides the background for the individual who desires to enter the Air Force as a military pilot trainee. Successful completion of this program qualifies the graduate for a commission as an officer in the United States Air Force.

Required Courses:

Number	Name	Credits
AF 101	Air Force Aerospace Studies	1
AF 102	Air Force Aerospace Studies	1
AF 201	Air Force Aerospace Studies	1
AF 202	Air Force Aerospace Studies	1
AF 301	Air Force Aerospace Studies	3
AF 302	Air Force Aerospace Studies	
AF 401	Air Force Aerospace Studies	3
AF 402	Air Force Aerospace Studies	3
	Air Force Elective	2
	Total	18
	Open Electives	8
Total ages	By Control of the Con	177

Total credit hours required: 131

Applied Mathematics: The area of concentration in Applied Mathematics is designed to provide the graduate with the broad mathematical and scientific background necessary to pursue a career in industry or government. The curriculum provides for the mathematical study of general scientific concepts, principles and phenomena. This program will prepare the student for additional studies at the graduate level.

The following mathematics and physics courses are required in place of the ones listed in the vertical outline on page 67.

Courses listed	Cour	ses required
MA 111		MA 140
MA 112 PS 103		MA 141 PS 201
Required Cou	rses:	
Number	Name	Credits
*PS 201 Phys	sics	. 5

wend mere men	Courses,	
Number	Name	Credits
*PS 201	Physics	5
MA 241	Calculus & Anal. Geom. I	4
MA 242	Calculus & Anal. Geom. II	4
MA 243	Calculus & Anal. Geom. III	4
MA 340	Differential Equations	3
MA 401	Adv. Engineering Math. I	3
MA 412	Probability & Statistics	3
MA 430	Linear Algebra & Linear	
	Prog.	3

CT 309 Adv. Fortran Programming Total Total credit hours required: 134

*In place of PS 103 (3 credits)

Aviation Management: The individual who desires to enter the aviation field prepared to move into a responsible position in management or operations should consider this area of concentration. It provides the student with flexibility beyond the basic management concepts into the realm of labor economics, marketing, personnel and transportation.

32

Required	Courses:	
Number	Name	Credits
EC 310	Labor Economics	3
MS 311	Marketing	3
MS 313	Personnel Management	3
MS 318	Business Data Processing	3
	6 hours of 300 or 400	
	level EC/MS courses.	6
	Total	18
	Open Electives	8
Total and 42	A REAL PROPERTY OF THE PARTY OF	

Total credit hours required: 131

Computer Technology: The increasing use of the computer in all phases of aviation makes this area of concentration an ideal program to pursue. This area of concentration augments the Aeronautical



Science program with courses which include numerical analysis, DOS/assembly language, data processing and computer data structures. The curriculum integrates the Aeronautical Science perspective with computer systems applications, giving the student experience in problem solving using the computer.

FY	of the seal	12	
Kea	uired	Cou	rses:

recquired	Carminana	
Number	Name	Credit
CT 309	Advanced Fortran Prog.	3
CT 310	Business Programming	3
CT 320	Adv. Business Programming	3
CT 350	Modeling Using Computers	3
CT 401	Data Struct. & Oper. Sys. for Business	
CT 410	Computer Data Structures	3
CT 420	Operating Sys. & Assembly Language	
MS 318	Business Data Processing Total Open Electives	2
Total cred	it hours required: 131	

Military Science and Tactics: This program, developed by the U.S. Army, supplements the basic Aeronautical Science curriculum. The area of concentration is offered in conjunction with Stetson University. Successful completion of this program will qualify the graduate for a commission in the United States Army.

Required Courses:

edits
2
2
2
2
2
2
2
2
2
18
8

ASSOCIATE IN SCIENCE DEGREE

AERONAUTICAL SCIENCE

Number	Subject	Credits	Number	Subject	Credits
	RIMESTER		PS 103	Basic Physics	3
FA 101	Primary Flight	2	HU 220	Communications III	3
AS 100	Foundations of Aeronautics	4			14
AS 101	History of Aviation	3	FOURTH	TRIMESTER	
HU 120	Communications I	- 3	FA 202	Advanced Flight II	2
MA 111	College Math for Avia. I	3	AS 209	Basic Aerodynamics	3
3425.111	Conege man to train t	15	AS 210	Aircraft Systems & Comp.	3
			MS 200	Principles of Management	3
SECOND	TRIMESTER	100	AS 302	Navigation II	3
FA 112	Basic Flight	2		11111 mm 11111111111111111111111111111	14
*FA 113	Single Engine Transition	0	FIFTH T	RIMESTER	
AS 102	Navigation I	3	FA 301	Instrument Flight	2
AS 103	Flight Rules & Regulations	3	AS 307	Flight Physiology	2
HU 121	Communications II	3	EC 110	Economics I	3
MA 112	College Math for Avia. II	3	AS 303	Government & Aviation	3
PS 101	Basic Chemistry	3	HU 221	Technical Report Writing	2
	Samura a	17		Introduction to Psychology	3
mission m	nu momen		SS 220	Introduction to Psychology	15
	RIMESTER			TOTAL OPEDITO	13
FA 201	Advanced Flight I	2	*********	TOTAL CREDITS	- 13 - 13
AS 201	Meteorology	3		FA 113 may be taken in conjun-	ction with
AS 203	Aircraft Engines-Recip.	3	FA 201 o	r FA 202	

FLIGHT TECHNOLOGY PROGRAM

Introduction

The Flight Technology program is an accelerated flight training program which is designed to enable a student to meet Federal Aviation Administration (FAA) pilot certificate requirements for graduates of FAA approved pilot and ground schools and ERAU standards and policies in a minimum time period. This program includes both flight and supporting ground courses. Students are committed to a full time training schedule which is oriented toward obtaining FAA pilot certifications.

The Flight Technology program is not administered in accordance with the Embry-Riddle Aeronautical University trimester academic calendar. Course convening dates may be obtained from the University Admissions Office.

Satisfactorily completed Flight Technology courses may be evaluated for advanced standing in some Embry-Riddle Aeronautical University academic curricula. Recommended University credit has been established for the Flight Technology Graduation Certificate.

A special fixed wing transition program is available for rotary wing rated U.S. Army pilots. It is an excellent opportunity to become fixed wing qualified. The program is comparable to U.S. Army fixed wing cross training. VA benefits may be utilized.

Holders of FAA commercial rotocraft certification receive 70 flight, 25 simulator and over 100 ground instructional hours. Graduates earn FAA commercial airplane single engine land/instrument certification. Weather permitting, multi-engine or Certified Flight Instructor may be earned in the same period. Successful completion will also earn the student 14 hours credit toward a B.S. or A.S. degree in Aeronautical Science.

An ERAU Certificate of Completion is awarded to all students who satisfactorily complete each FAA approved Flight Technology ground or flight course. An ERAU Flight Technology Graduation Certificate is awarded to all students who complete Flight Technology curricula.

There is a designated FAA Flight Examiner on the staff at Embry-Riddle and any flight check except Flight Instructor may be accomplished at ERAU. In the event additional training is required in excess of that provided by each flight course, additional flight or ground training may be obtained at an hourly rate.

Late model, fully equipped training aircraft are utilized for all flight training. Cessna 172 Skyhawks and Mooney M20C Rangers are the single engine training aircraft. Cessna 310 aircraft are utilized for multi-engine training.

Four General Aviation Trainers (GAT) and a multi-engine flight simulator are also utilized in training courses. The GAT trainers are used in conjunction with a sophisticated electronic system to provide ground instrument training which realistically simulates the complexities of actual instrument flight in a high density radar environment.

Flight and ground training facilities of the Division of Flight Technology are located in the new ultra-modern Gil Robb Wilson Memorial Aeronautical Science Center. Contained in this Center are the Flight Technology Administrative Offices, Flight Dispatch, Flight Planning Room, Aviation Weather Facility, Simulator Laboratory, Oral Rooms, Flight Student Lounge, Classrooms and Academic Consultation Rooms, Classroom facilities include the latest audio-visual equipment. The aircraft flight line is conveniently located adjacent to the Center.

Embry-Riddle Flight training utilizes the "Gemini-Flite" concept whereby two students fly together on dual Instructional flights. One student flies the aircraft and the other student observes. This concept increases and reinforces the learning experiences of both students at minimum expense to the students.

Admission to Flight Courses

Prior to being accepted in any flight course, the student must be properly enrolled as an Embry-Riddle Aeronautical University student in accordance with the general admission requirements of the University. See pages 18 to 24.

All students enrolled in any flight course at Embry-Riddle are required to have at least a current Airman's Medical Certificate Class II. This must be obtained through a qualified FAA Medical Examiner (physicians who have not qualified with the FAA cannot give this examination). In order to save time and money, it is suggested that those who are planning to enroll in a flight course obtain the Class II certificate along with completion of the University Health Form at the FAA Examiner's office.

To be eligible for FAA pilot certification a student must meet the age requirements of Federal Aviation Regulation Part 61: Student Pilot — 16 years, Private Pilot — 17 years, Commercial Pilot — 18 years.

Classes convene weekly. Contact Admissions Office for specific class dates.

Advanced Standing

Advanced standing may be granted based upon previous flight training and experience in accordance with FAA Regulations and ERAU standards and policies. Normally an evaluation flight will be required.

All requests for advanced standing for flight courses or flight course transfer credit must be submitted during the first trimester in attendance at Embry-Riddle. Required flight evaluations must be completed during this period and are at the student's expense. In evaluating requests for advanced standing or transfer credit, official documentation from previously attended academic or training institutions, personal flight logs and FAA certification will be given consideration.

Advanced standing and transfer credit must be authenticated by the Chairman, Flight Technology, or Dean of the College of Aviation Technology, and validated by the Dean of Admissions and Records for official records purpose. A completed Evaluation Form will be provided to the student.

Certificate Requirements

A listing of all required flight technology courses is shown on page 72.

At least one flight course must be completed in residence at Embry-Riddle, regardless of any advanced standing which may be granted. Exceptions may be made for qualified fixed wing military trained pilots who are on active duty or have been released from flight duties within the preceding twelve months, or for currently qualified fixed wing airline pilots.

After enrollment at Embry-Riddle Aeronautical University, the student must complete in residence at Embry-Riddle all subsequent flight courses which are required for the program in which he is enrolled. Flight time or flight courses completed elsewhere after enrollment at ERAU will NOT be credited toward completion of requirements.

Schedules

Scheduled flight training is conducted

seven days per week. Each student is responsible for meeting each scheduled flight and ground training commitment unless he is properly excused by his Flight Supervisor the day prior to the scheduled activity.

FLIGHT TECHNOLOGY CERTIFICATE

		Approx.	Continu-				Continu-
Subject			Education	Subject		Approx.	ing Education
No.	Subject	(Weeks)		No.	Subject	(Weeks)	Units
PRIMA	RY PHASE	(1124		FT 406	Fundamentals	(weeks)	Units
FP 100	Private Pilot Flight	8-1	1 6.4	11 400	of Instrument		
FT 100	Private Ground				Flight Instructing	6	
	School		5 6		right instructing		
			5 6 6	OPTIO	NAL COURSES		
INTERMEDIATE PHASE					Transition Flight	15	17
FP 200	Commercial Flight I	17-20	19.9	FP 401	Advanced Instrument		17.
FT 200	Comm. Ground		17.7	FF 401			- 1
	School	1:	5 22.5	FP 402	Flight I Advanced Instrument	4-6	9.
FP 301	Instrument Flight	8-1		PP 402	NAME AND ADDRESS OF TAXABLE PARTY OF TAXABLE PARTY.		
FT 301	Instrument Ground	0-1	1 22	ED 402	Flight II	4-6	9
F1 301				FP 403	Advanced Instrument		
	School		7.5	W1000 14.6.00	Flight, Multi-Engine	4-6	2.25
ATMETER	ICED DILAGE			FP 410	Multi-Engine Flight		
	CED PHASE	211	35 5355		Instructor		
FP 310	Multi-Engine Flight	2-3	3 2.5		Laboratory	4-6	3.25
FP 404	Flight Instructor			FP 499		TBA	
	Flight Laboratory	8-1	1 4.5				
FT 404	Fundamentals of						
	Flight Instructing	(5 7.5	*A specified course to prepare FAA cer			rtificated
FP 406	Instrument Flight			Commer	rcial Rotocraft Helicopt	er pilots	for addi-
	Instructor Flight			tion of a	irplane-single engine la	nd and in	strument
	Laboratory	8-11	4.5	ratings to existing pilot certificates.			

AVIATION MAINTENANCE TECHNOLOGY DEGREE PROGRAM

Introduction

This program is designed to enhance the potential of qualified Aircraft Maintenance Technicians. A graduate Aviation Maintenance Technician would provide guidance/supervision for maintenance activities associated with the general maintenance, overhaul, repair and modification

of aircraft. The curriculum provides an advantage toward the obtaining of managerial positions in the maintenance career fields of the airlines, fixed base operators, aircraft companies, corporate business aircraft fleet operators and governmental flight activities.

Admissions

General University admission requirements apply. See pages 18 to 24.

Transfer of Credit

Credit for Maintenance Technology courses taken at other institutions will be evaluated for application to ERAU certificate requirements — which in turn is required for the Associate Degree. Other academic credits will be evaluated in accordance with general University policies (see page 20).

Advanced Standing

Students with aviation background training (civilian, military or approved schools) may request advanced standing for the specific parts of the curriculum. Applications for advanced standing must be submitted to the Chairman of the Maintenance Technology Division during the first trimester of enrollment. Requests will be evaluated on an individual basis.

Advanced standing and transfer credit granted in accordance with these procedures will be authenticated by the Dean, College of Aviation Technology and validated by the Dean of Admissions and Records for official records purpose. An Evaluation Form will be provided the student.

Degree Requirements

All candidates for graduation with the Associate degree in Aviation Maintenance Technology must have fulfilled the requirements of the Aviation Maintenance Technology program, page 75, or possess an F.A.A. Maintenance Technician (Airframe & Powerplant) Certificate.

Students placing below average on evaluation examinations are required to take developmental courses to enhance their

ability to do required work and make necessary progress in regular Maintenance Technology classes. See p. 27.

Upon successful completion of the Aviation Maintenance Technology program, 190 Continuing Education Units will be granted on the basis of the Graduation Certificate. In addition, candidates for the Associate degree in Aviation Maintenance Technology must complete 36 trimester hours in the areas of humanities, science and management, as follows:

FIRST TE	RIMESTER	
HU 120	Communications I	3
	Economics I	3
MA 111	College Mathematics For Aviation I	3
MS 110	Accounting 1	3
AS 101	History of Aviation	3
MS 200	Principles of Management	3
		18
SECOND	TRIMESTER	
MS 305	Management Concepts and Analysis	3
MA 112	College Math for Aviation II	3 3 3 3 3
PS 103	Basic Physics	3
HU 121	Communications II	3
EC 210	Economics II	3
SS 220	Intro. to Psychology	3
(T) (T) (T) (T)	17001000000000000000000000000000000000	18
	TOTAL CREDITS	
	REQUIRED	36

All of the courses in the Associate Degree in the Aviation Maintenance Technology program are creditable toward the Bachelor of Science in Aviation Maintenance Management. If a transfer to the Bachelor of Science in Aviation Management is desired, the student must take MA 120 (Quantitative Methods I) and one 3 hour elective in lieu of MA 111 and MA 112. See page 54 for Aviation Management required courses.

All certificate requirements (schedule, attendance, transfer and program changes, FAA exams, etc.) apply also to the certificate portion of the degree requirements. See page 75.

AVIATION MAINTENANCE TECHNOLOGY CERTIFICATE PROGRAM

Introduction

This program is a combination of the Airframe and Powerplant curriculums and provides the graduate with a theoretical and practical knowledge, as well as a manipulative ability to repair aircraft, engines and systems. In addition, the graduate is repeatedly tested to ensure that he possesses adequate knowledge to successfully pass the FAA examination for the Airframe and Powerplant Certificate which will permit him to sell his services to the public as a government-certified aviation Maintenance Technician.

The Maintenance Technology Division is an approved training center, operating under Air Agency Certificate No. 277, issued by the Federal Aviation Administration of the United States of America. Courses offered in this division give the student actual experience by classroom instruction, shop practice and "on the job" training. In the Embry-Riddle Repair Station, many types of engines, aircraft and accessories are overhauled and returned to service. This provides an opportunity for students to learn first hand the construction, operation, overhaul and maintenance of powerplants and structural components of aircraft.

Admission to Maintenance Technology

Applicants will be considered for admission who have graduated from accredited high schools with satisfactory records. Non-high school graduates who have been awarded high school equivalency diplomas or have completed work at accredited technical institutes with satisfactory grades and are in good standing at the last school attended also will be considered. In certain cases, mature applicants who fail to meet the above requirements but present other suitable criteria, such as honorable service in the Armed Forces or employment experience, will be considered for admission.

Classes convene approximately every two months. Consult the University Calendar for exact registration dates.

Transfer of Credit

Part 147 of the Federal Aviation Regulations establishes rules regarding credit for previous training and requires testing of any subjects considered for transfer credit. These tests include questions on Federal Aviation Regulations and procedures as well as the technical aspects.

Generally speaking, students experienced in the military aviation mechanic field have a limited knowledge of Federal Aviation rules, regulations and procedures. Such students are enrolling in an approved school to prepare themselves for work in civil aviation where in most cases they will be operating under regulations much different from those encountered in the military.

Advanced Standing

Students with aviation background training (civilian, military or approved schools) may request advanced standing for specific parts of the curriculum. Applications for advanced standing must be submitted to the Chairman of the Maintenance Technology Division during the first trimester of enrollment. Requests will be evaluated on an individual basis.

Advanced standing and transfer credit granted in accordance with these procedures will be authenticated by the Dean, College of Aviation Technology and validated by the Dean of Admissions and Records for official records purpose. An Evaluation Form will be provided the student.

Certificate Requirements

The student may complete ERAU certificate requirements for Maintenance Technician, Airframe or Powerplants. Continuing Education Units are earned as indicated. The Maintenance Technician Certificate curriculum requires 2025 class hours of training, and is comprised of the following courses:

Number	Subject	C.E. Units	Class Hours
	RIMESTER		225
MT 010	General Aeronautics Basic Airframe Science	21	225 225
MT 011		733	-55
SECONI MT 012	TRIMESTER Basic Powerplant Science	e 21	225
MY 013	Aircraft Systems Science	e 21	225
THIRD	TRIMESTER		
MT 014	Aircraft Electrical Systems Science	21	225
MT 015	Advanced Reciprocating Powerplants	21.5	225
FOURT	H TRIMESTER		
MT 016	Turbine Engine	21	225
MT 017	Advanced Airframe	21.5	225
FIFTH T	TRIMESTER	1290	222
MT 018	Propellers	21	225
	TOTAL	190	2025

*TRIMESTER - 15 Weeks

Enrollment is for one full trimester (15 weeks) of two consecutively scheduled classes (6 hour day) except those students choosing to enroll at midtrimester starting dates (Term B (7.5 weeks) of first trimester).

The Airframe curriculum requires 1350 class hours of training, and is comprised of the following courses:

Number			Class Hours
FIRST T MT 010 MT 011	RIMESTER General Aeronautics Basic Airframe Science	21 21	225 225
SECONI MT 013 MT 014	TRIMESTER Aircraft Systems Science Aircraft Electrical	ce 21	225
THIRD THIRD MT 017	Systems Science IRIMESTER Advanced Airframe Propellers TOTAL HOURS	21.5 21	225 225 1350

The Powerplant curriculum also requires 1350 class hours of training, and is comprised of the following courses:

Number	Subject	C.E. Units	Class Hours
FIRST T	RIMESTER	123	200
MT 010	General Aeronautics	21	225
MT 012	Basic Powerplant Science	e 21	225
SECONI	TRIMESTER		
MT 014	Aircraft Electrical Systems Science	21	225
MT 015	Advanced Reciprocating Powerplant	21.5	225
THIRD '	TRIMESTER	2.77	225
MT 016	Turbine Engine	21	225
MT 018	Propellers TOTAL	126.5	1350

*TRIMESTER - 15 Weeks

Enrollment is for one full trimester (15 Weeks) of two consecutively scheduled classes (6 hour day) except those students choosing to enroll at midtrimester starting dates (Term B (7.5 Weeks) of FIRST TRIMESTER).

If the student desires FAA certification, he must complete the FAA written, practical and oral examination. A student may elect to take these tests and examinations wherever he chooses or he may take advantage of the certification program which Embry-Riddle Aeronautical University offers. This program is neither part of

the regular curriculum nor are the hours counted as part of the minimum requirements. It consists of written tests, and practical and oral examinations. Each applicant must satisfactorily complete each phase of testing with a grade of 75% or better to be eligible for his FAA Aviation Maintenance Technician Certificate.

To be eligible for FAA Certification an applicant must meet the age requirements of Federal Aviation Regulation Part 65.

Schedule

The Maintenance Technology Division operates on a schedule which permits enrollment every 7½ weeks. Classes are in session 6 hours per day or 30 hours per week.

Attendance

Absenteeism in excess of three consecutive (6) hour classes or of any four (6) hour classes in a four-week period during an MT subject may result in a decision that the student be interrupted or dismissed. Should such absences be unexcused, interruption or dismissal becomes automatic at the end of the third or fourth absence to be effective as of the last day of attendance.

Grading System

The Maintenance Technology Division uses the numerical grading system of 0 to 100 as required by the Federal Aviation Administration. Students are graded in three areas.

They are:

- Results obtained on written examinations.
- b. Performance in shop projects.
- Application of effort, attention to duty, attitude and ability to get along with fellow students.

Grades are made a matter of permanent record and are available to the FAA. The student must authorize the University in writing to make records available to prospective employers or other parties.

Graduation

Embry-Riddle awards a Certificate of Completion to all students successfully completing any of the FAA approved courses. This document certifies that the bearer has graduated from an FAA approved school. It must be presented to the appropriate official before taking the FAA Maintenance Technician examinations. In addition, graduates receive the Embry-Riddle Aeronautical University Certificate of Graduation.

The College of Continuing Education provides educational opportunities, both on and off campus, for individuals interested in Embry-Riddle Aeronautical University's aviation oriented programs. The University has entered into agreements with other colleges and universities and with various government agencies in order to serve the educational needs of the aviation community. These arrangements enable students enrolled in off-campus programs to complete all program requirements where they are located.



COLLEGE OF CONTINUING EDUCATION

COLLEGE OF CONTINUING EDUCATION

College of Continuing Education activities include: special seminars, including international seminars: the Dual Degree Program in conjunction with Georgia Institute of Technology; the Miami Education Consortium in cooperation with Barry College; Eagle University at Fort Campbell, Kentucky; Residence Centers at selected U.S. Army installations; the USAF European Center; and, the Master of Aviation Management degree program through the Embry-Riddle Aeronautical University Graduate Center on the Biscayne College campus in Miami. Additional information concerning these activities may be found on pages 29 through 34.

Programs available at off-campus loca-

tions include the Aeronautical Studies. Aviation Management, Aviation Maintenance Technology and Aviation Maintenance Management degrees. These degree programs are explained in the College of Aeronautical Studies and College of Aviation Technology sections of the Catalog. In addition, specialized continuing education programs are offered at selected locations. These include the Associate and Bachelor of Professional Aeronautics and Associate in Science in Aviation Safety degree programs for especially qualified personnel and the Airframe/Powerplant Technology program for appropriately qualified military aviation maintenance personnel.

PROFESSIONAL AERONAUTICS DEGREE PROGRAMS

Introduction

Associate and baccalaureate Professional Aeronautics programs are continuing education degree programs developed to fulfill the educational needs of highly skilled professionals, employed in selected aeronautical fields. These programs combine the formal training, directed study and professional work experience in a specific area of aeronautical technology with studies in the liberal arts, science and management. The programs are designed to prepare the student to assume added responsibilities within his field of professional competence. The baccalaureate program should also prepare the students to enter graduate level study programs if desired.

Admission Requirements

Admission to Professional Aeronautics degree programs is limited to full-time employees of the Federal Aviation Administration, qualified military personnel and other professionals in the field of aviation. A high school diploma, or equivalent, is required for all applicants. In addition, admission is limited to individuals employed in specific skill areas approved for award of technology credit.

Transfer Credit

Students who have completed previous college work may request an evaluation of their college transcript through the Dean of Admissions and Records (see page 20). Courses completed with a grade of "C" or better are transferable; however, only those courses which meet curriculum requirements will apply toward the degree.

Advanced Standing

Credit will be granted to enrolled students for the formal training, directed study and experience in a professional area of aeronautical technology validated by the University. Credit toward the baccalaureate degree will be awarded when appropriate documentation is provided indicating that the student has attained the level of qualification required in an approved area of concentration. Credit toward the associate degree will be awarded upon verification of completion of certain formal training and 18 months of work experience in an approved area of concentration.

BACHELOR OF PROFESSIONAL AERONAUTICS

Degree Requirements

The Bachelor of Professional Aeroneutics degree program requires 128 credit hours, including the credit hours granted on the basis of professional qualification. Courses to be taken to earn this degree are indicated on page 80.

Program Description

The curriculum requires study in the humanities and social sciences, mathematics and the physical sciences, the aeronautical sciences, and economics and management.

Areas of concentration which have been approved toward the Bachelor of Professional Aeronautics degree and the number of credit hours granted on the basis of professional qualification are as follows:

Air Traffic Control Technology (64 Credit Hours):

Technicians who have attained journeyman level qualification as flight service station specialists, enroute air traffic controllers, or terminal air traffic controllers are eligible for this concentration.

Airways Facilities Technology (64 Credit Hours):

Technicians who have attained journeyman level qualification in the computer, navigational aids, communications,

or radar career areas are eligible for this area.

Airline Command Pilot (64 Credit Hours):

This area of concentration is open to individuals who possess the following qualifications and experience: (1) are currently employed as a pilot by a major airline and are qualified to fly as Captain; (2) hold an FAA Airline Transport Pilot Certificate with at least one type rating in a current air carrier aircraft; and, (3) have a minimum of 5,000 flight hours as Pilot in Command or Second in Command in aircraft with a maximum certificated gross takeoff weight of more than 70,000 pounds.

Additional areas of concentration will be approved and announced by the University as formal evaluations of government and industry aeronautical education and training programs are completed. Announcement of areas of concentration added to the degree program will be made through directors at off-campus locations served by the University.

Curriculum Requirements

The curriculum to be completed by an individual accepted for enrollment will be dependent upon the amount of advanced standing granted by the University for the area of concentration in which the student

will enroll. The following listing identifies specific curricular requirements for professional areas of concentration granted 32 aeronautical technology credits, 48 aeronautical technology credits and 64 aeronautical technology credits.

Number	Title	Cr	edit H	our
	tical Technology			
(Lowe	r Level)	22	33	-4
Aeronau	tical Technology			
(Uppe	r Level)	10	15	2
AS 101	History of Aviation	3	3	
AS 303	Government and			
	Aviation	3	3	
AS 405	Aviation Law	3	3	
HU 120	Communications I	3	3	
HU 121	Communications II	3	3	
HU 220		3	3	
HU 221		8	197	
	Writing	2	2	100
HU 340		-		
	Philosophy	3	3	
HU Elec	tive (Upper Level)	3	1000	-31
	20 World or American	-,40		
00 110,1	History	3	2	- 70
	11101013		2	- 3

SS 210 Introduction to		NES	
Sociology	3	13	-3
SS 220 Introduction to		OF	or-
Psychology	3	-3	-3
SS Elective (Upper Level)	3	3	
MA 111 College Mathematics			
for Aviation I	3	3	3
MA 112 College Mathematics			
for Aviation II	3	3	3
MA 211 Introduction to		1000	70
Statistics	3	3	
PS 101 Basic Chemistry	3	3	3
PS 103 Basic Physics	3 3 3	3	3
EC 110 Economics I	3	3	3 3
EC 210 Economics II	3	3	3
EC 310 Labor Economics	3		
MS 110 Accounting I	3	3	3
MS 112 Accounting II	3	3	
MS 200 Principles of	- 35		
Management	3	3	- 3
MS 305 Management Analysis		5,40,5	
and Concepts	3	3	3
EC/MS Electives (Upper Level)	6	6	8
General Electives	1,000		
(In any discipline)	16	9	0
TOTAL CREDITS	128	128	128

ASSOCIATE IN PROFESSIONAL AERONAUTICS

Degree Requirements

The Associate in Professional Aeronautics degree may be completed by the attainment of specialist/technician qualification and the equivalent of three trimesters of academic study. A minimum of 65 credit hours is required for the degree, including 18 hours on the basis of professional qualification in an area of concentration.

Program Description

The curriculum requires study in the humanities and social sciences, mathematics and physical sciences, the aeronautical sciences, and in the fields of economics and management.

Areas of concentration approved in the Associate in Professional Aeronautics degree program are: Aircraft Maintenance: Individuals who have attained specialist/technician qualification as aircraft mechanic or aircraft component repairman.

Air Traffic Control: Individuals who have attained specialist/technician qualification as air traffic control tower operator, air traffic control ground control specialist, or air traffic control enroute specialist.

Aviation Weather: Individuals who have attained specialist/technician qualification in aviation weather.

Electronics Operation/Maintenance: Individuals who have attained specialist/technician qualification in the operation or maintenance of navigation and flight control avionic equipment installed in aircraft and avionic communications and associated ground communications equipment.

Flight Operations Administration: Individuals who have attained specialist/technician qualification in the administration of flight operations.

Flight Simulation Operations: Individu als who have attained specialist/technician qualification in the operation of instrument flight simulators.

Flight Technology: Individuals who have been rated as military pilots/aviators.

Curricu	lum Requirements	
Number	Subject	Credits
Area of	Concentration	18
AS 101	History of Aviation	3
AS 303	Government & Aviation	3 3 3
HU 120	Communications I	3
HU 121	Communications II	3
HU 220	Communications III	3
HU 221	Technical Report Writing	2
SS 220	Introduction to Psychology	3 3
MA 111	College Math for Aviation I	
MA 112	College Math for Aviation II	3
PS 103	Basic Physics	3 3 3
EC 110	Economics I	3
MS 200	Principles of Management	3
MS 305	Management Analysis	
	& Concepts	3
General	Electives (Any discipline)	9
	TOTAL CREDITS	65

AIRFRAME/POWERPLANT TECHNOLOGY PROGRAM

Introduction

Many military aviation maintenance personnel possess the minimum experience requirements established by the Federal Aviation Administration as prerequisites for applicants seeking FAA Aviation Maintenance Technician Certificates. Embry-Riddle has developed the Airframe/Powerplant Technology program to provide these individuals with the knowledge of FAA rules, regulations and procedures necessary to complement their military training and experience. Successful completion of the Airframe/Powerplant Technology program should prepare the individual to successfully complete the FAA written. oral and practical examinations required to obtain the FAA Aviation Maintenance Technician Certificate.

Admission Requirements

Admission to this program is limited to those maintenance personnel who possess the minimum experience requirements specified in Part 65 of the Federal Aviation Regulations.

Program Requirements

This program is comprised of three courses, each consisting of eighty hours. Approximately 50% is in the classroom and 50% laboratory experience. Each course is assigned a credit value of three trimester hours. Course numbers and titles are as follows:

AP 101 Survey of General Aeronautics AP 102 Survey of Airframe Maintenance

AP 103 Survey of Powerplant Maintenance

Locations

The Airframe/Powerplant Technology program is offered at Fort Campbell, Kentucky. Embry-Riddle will consider expanding the program to additional locations where significant interest is expressed and where maintenance facilities are available to provide the student the laboratory experience necessary to prepare him for the FAA examinations.

Applicability of Credit

The credit hours obtained on successful completion of these courses may apply toward elective requirements in Embry-Riddle degree programs.

Students who complete one or more of these courses and subsequently acquire the FAA Aviation Maintenance Technician Certificate with Airframe and Powerplant ratings may wish to apply for admission to the Associate in Aviation Maintenance Technology degree program or the Bachelor's program in Aviation Maintenance Management. Credit received for completion of Airframe/Powerplant Technology courses will be included in the maximum Maintenance Technology credit authorized.

ASSOCIATE IN SCIENCE IN AVIATION SAFETY

Introduction

The Aviation Safety degree program is a continuing education program designed to meet the educational needs of highly skilled professionals employed or desiring employment in the field of aviation safety.

This program is designed to prepare the student for entry into the aviation safety career field in the aviation industry, military services, or municipal, state, and federal governments.

Admission Requirements

Admission to the Aviation Safety degree program is limited to military aviators possessing Federal Aviation Administration Commercial Pilot certification. A high school diploma, or equivalent, is required for all applicants.

Currently the program is offered only at the Fort Rucker Residence Center.

Transfer Credit

Students who have completed previous college work may request an evaluation of their college transcripts through the Dean of Admissions and Records.

Courses completed with a "C" or better

are transferable, provided they meet curriculum requirements applicable to this degree.

Program Description

The curriculum requires study in the liberal arts, mathematics, aeronautical sciences, physical sciences, management and aviation safety to include formal training in aircraft accident investigation.

Degree Requirements

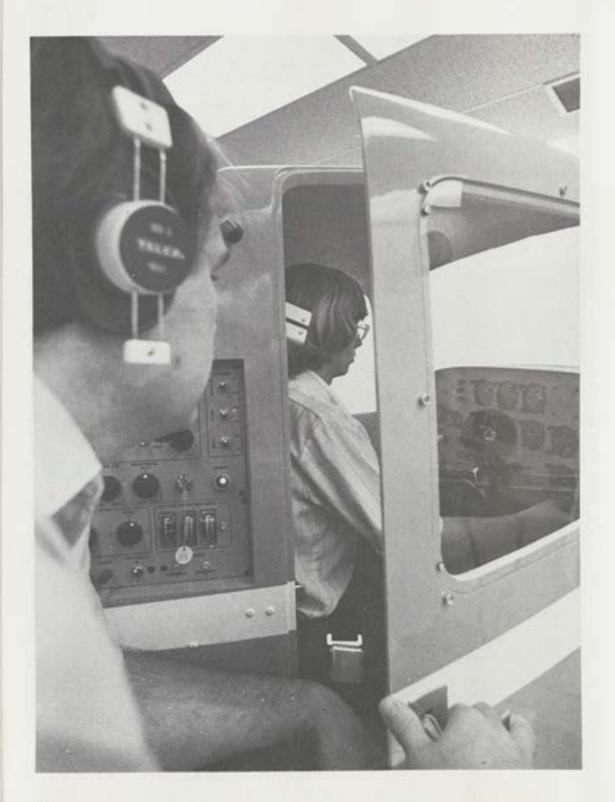
The Associate in Science in Aviation Safety may be completed in the equivalent of four trimesters of academic study. A minimum of 65 credit hours is required.

Curriculum Requirements

Number	Subjects	Credits
AS 100	Foundations of Aeronautics	4
AS 101	History of Aviation	3
AS 102	Navigation I	3
AS 103	Flight Rules and Regulations	
AS 201	Meteorology	3
AS 303	Government and Aviation	3
HU 120	Communications 1	3
HU 121	Communications II	3
HU 220	Communications III	3
HU 221	Technical Report Writing	2
MA 111	College Math for Aviation I	3
MA 112	College Math for Aviation II	3

MS 305	Management Analysis & Concepts	3	SF 303	Introduction to Aircraft Structures	2
PS 101	Basic Chemistry	3	SF 306	Aviation Physiology	2
PS 103	Basic Physics Safety Management	3	SF 330	Aircraft Accident Investigation	3
SF 195 SF 208	Subsonic Aerodynamics	3		General Electives	
SF 219	Aviation Psychology	2		(any discipline)	3
SF 250	Safety Program Development	3		TOTAL CREDITS	65







COURSE DESCRIPTIONS

COURSE DESCRIPTIONS

Course Numbering System

Courses numbered 001-099 are noncredit courses; courses numbered 100-199 are on the Freshman level; 200-299 on the Sophomore level; 300-399 on the Junior level; and 400-499 on the Senior level. Courses numbered 100 through 299 are lower division level and 300 and above are upper division level. Course numbers 297, 298, 397, 398, 497 and 498 are assigned to special and experimental courses. Course numbers 299, 399 and 499 are assigned to individual research topics.

Graduate courses are numbered 500 and above.

The course offerings of the University are described below in alphabetical order by course designations. College and Division responsibility for the course subject areas are as follows:

- 1) College of Aeronautical Studies
 - a) Aeronautical Engineering Division

AE - Aeronautical Engineering

ES - Engineering Science

ET - Engineering Technology

 b) Computer Technology Division CT - Computer Technology Humanities and Social Science Division

HU - Humanities

SS - Social Science

PE - Physical Education

- Management Science Division
 MS Management Science
 EC Economics
- e) Mathematics and Physical Science Division
 MA Mathematics
 PS Physical Science
- 2) College of Aviation Technology
 - a) Aeronautical Science Division
 AS Aeronautical Science
 - Aerospace Science Division
 AF Air Force Studies
 MY Military Science
 - Flight Technology Division
 FA Flight, Academic
 FP Flight Technology Flight
 FT Flight Technology Classroom
 - d) Maintenance Technology
 Division
 MT Maintenance Technology
 AP Aircraft/Powerplant
 Technology (Off Campus)

NOTE: Corequisites and prerequisites may be waived by permission of instructor and program chairman.

AERONAUTICAL ENGINEERING

AE 101 — Introduction To Aerospace Engineering...... 2 Credits

The aerospace industry. Manufacturing processes; airframe construction and design; structural materials; production planning and scheduling; PERT; prime and sub-contracting. Covers design, development, fabrication, assembly, inspection and testing of aerospace vehicles; aircraft, spacecraft, rocket boosters and related systems. Systems engineering; airframe,

propulsion, electronics, control system analysis, system interfaces. To be taken during first year.

AE 301 - Aerodynamics I

number and Reynolds number. Supersonic airfoil theory. Correlating factors influencing wing design. Theories of drag and their application. Momentum, blade element and vortex theories of propellers. Prerequisite: MA 243, PS 201.

AE 302 - Aerodynamics II

AE 304 - Aircraft

Structures I with Laboratory..... 3 Credits Space structures. Introduction to fuselage stress analysis and wing structural analysis. Inertia forces and load factors for an airplane. Different flying and landing conditions. Mohr's circle for moment of inertia and combined stresses. Introduction to aircraft structures laboratory. Prerequisite: ES 201 & ES 302

AE 310 - Wind Tunnel

Laboratory I...... 3 credits

The course consists of a series of experiments using the wind tunnel. Testing parameters development. Wind tunnel design principles. Instrumentation and calibration of the wind tunnel. Manometry. Total pressure and static pressure tubes. Investigation of laminar, transition and turbulent boundary layers. Pressure distribution with multimanometer of a NACA airfoil and calculation and plotting of lift coefficient, center of pressure, pitching moment coefficient, and profile and total drag coefficients at various flight angles of attack. Force balance calibration and operation. Prerequisite: AE 301

AE 401-Advanced

AE 402-Advanced

AE 404 - Aircraft Structures II

AE 405-Aircraft

AE 406-Jet And

rocket motors. Prerequisite ES 305, AE 301.

AE 410—Wind Tunnel Laboratory II....... 3 Credits

This course consists of a series of experiments using the wind tunnel, Tare and interference tests. Model design and construction. Testing procedure. Control surface testing. Propeller testing. Testing windmill generators. Wind tunnel boundary corrections. Wake blocking. Streamline curvature. Solid blocking. Downwash connection. Use of wind tunnel data. Scale effects. Complete model testing. Prerequisite: AE 310

AE 413-Airplane

AE 420-Aircraft

 prescribed aerodynamic, structural and performance specifications. Prerequisite: AE 302, AE 304, AE 413. (Lab fee required)

AE 421—Aircraft

AE 433-Aerodynamics of

AE 299, 399, 499 — Special Topics In Aeronautical Engineering...... 1-6 Credits Lectures, laboratories, or seminars on selected topics in aeronautical engineering. Prerequisite: Consent of instructor. May be repeated with a change of content. (Lab fee required, if computer used.)

AIR FORCE AEROSPACE STUDIES

AF 101 — U.S. Military Forces
General Military Course (GMC).. 1 Credit
Examines the role of the Air Force in the
contemporary world by studying the total
force structure, strategic offensive, defensive, general purpose, and aerospace
support forces. Corps Training (lab) exposes student to the function and organization of a military unit.

AF 102 — U.S. Military Forces General Military Course (GMC).. 1 Credit Continuation of AF 101

AF 201 — The Development of Air Power General Military Course (GMC).. 1 Credit Includes the development of flight from balloons through the current employment of U.S. air power including peaceful employment such as relief missions and civic action programs through the 70s. Corps Training (lab) provides leadership experience in officer type activities.

AF 202 — The Development of Air Power General Military Course (GMC).. 1 Credit Continuation of AF 201

AF 301 — National Security Forces in Contemporary American Society Professional Officers Course..... 3 Credits An examination of military professionalism and existing patterns of civilmilitary relations to include analysis of the international and domestic environment affecting U.S. defense policy. Within this structure, a survey is conducted of the post World War II development of defense strategy, formulation and implementation of national security policy. Corps Training (lab) provides advanced leadership experiences in officer-type activities.

AF 302 — National Security Forces in Contemporary American Society Professional Officers Course..... 3 Credits Continuation of AF 301 AF 401 — Air Force Leadership and Management

Professonal Officers Course...... 3 Credits A study of Air Force leadership at the junior officer level, including its theoretical professional, and legal aspects. Course also includes a study of military management, functions, principles and techniques applicable to the operation of military units. Corps Training (lab) provides advanced leadership experiences in officer-type activities.

AF 402 — Air Force Leadership and Management Professional Officers Course..... 3 Credits Continuation of AF 401

AIRFRAME/POWERPLANT TECHNOLOGY

AP Courses are Taught Only Off Campus; For On Campus Courses, See MT Courses

*AP 101 — Survey of General

*AP 102 - Survey of Airframe

 induction systems, lubrication systems, engine fire protection systems, engine instrument systems, engine fuel systems, engine exhaust systems, and propellers.

*These are survey courses for experienced personnel designed to prepare them to take the FAA written examination for the Maintenance Technician Certificate.



AERONAUTICAL SCIENCE

AS 100 - Foundations of

Aeronautics...... 4 Credits After completion of this course, the student will possess the basic knowledge necessary to pursue further study in Aeronautical Science and will be competent to conduct flight activities as a licensed Private Pilot. The student will be able to explain Flight Theory, compute various basic aircraft performance factors, identify physiological aspects of flight, relate FAA regulations to specific problems, interpret aviation meteorology reports, determine flight conditions to be expected in various situations, and solve navigational problems using basic pilotage, dead reckoning, and basic radio navigational procedures.

AS 101 - History of

 aids and equipment. He will be introduced to the theory and operation of electronic navigation equipment and celestial navigation. Prerequisite: AS 100

AS 103 - Flight Rules and

Regulations...... 3 Credits This course is a study, review and analyzation of those selected governmental rules, regulations, publications and procedures promulgated by the Federal Government through the Federal Aviation Administration (FAA) which are needed by pilots, and managers in related aviation fields so as to insure safe and orderly operation of air traffic both in VFR and IFR conditions within the "National Airspace System" structure. The broad range of regulations that are covered are: the issuance of pilot and instructor certificates and ratings and the regulatory conditions under which these certificates and ratings are necessary; the "rules of the road" governing the operation of aircraft within the United States: definitions and abbreviations; medical standards and certification; the rules covering aircraft accident regulatory reporting procedures; the certification and operation of air carriers and commercial operators of large aircraft; and, air taxi and commercial operations of small aircraft. Upon successful completion of the above the student will recognize the conditions under which such rules and regulatory procedures apply. Prerequisite: AS 100

AS 203 - Aircraft Engines

AS 209 — Basic Aerodynamics.. 3 Credits A study of subsonic, transonic, and supersonic aerodynamics, stability and control, aircraft operating strength limitations, and application of aerodynamic principles to flight techniques and procedures. After completion, a student should be able to apply basic principles of physics to aerodynamic problems, state basic aerodynamic results and their limitations, explain relationships in subsonic, transonic and supersonic flow situations, explain effect of airframe changes on stability and control, state operating limitations of the aircraft structure, and apply aerodynamic principles to common flight situations. Prerequisites: MA 112 and PS 103 or equivalent.

AS 210 - Aircraft Systems and

AS 211 - Aircraft Engines and

 jet engine aircraft. Theory of both types of engines and their principles of operation, to include power and thrust measurement and operating procedures, are examined. Systems operation, including fuel, oil, hydraulic, electrical and pneumatic systems, is related to the type power plant with which they are normally associated. Differences between reciprocating engines with their associated systems are stressed. Not available to students in Aeronautical Science or the Flight Technology area of concentration of Aeronautical Studies.

AS 302 — Navigation II...... 3 Credits A study of the fundamental concepts, techniques, and procedures involved in the science of instrument flight. After completion, a student should be able to apply aerodynamic factors, explain efficient attitude instrument flying techniques, explain operating principles and limitations of the flight instruments, utilize appropriate navigational and safety equipment, facilities, and flight control devices: describe the federal airway system, interpret all charts used in instrument flight: and apply and explain air traffic control procedures, regulations, and publications designed to insure the safe and orderly operation of flight under instrument flight rules. Should be taken one trimester before FA 301. Prerequisite: AS 102

AS 303 - Government and

Aviation..... 3 Credits The chronological development of governmental control and regulation is examined. This survey, together with a detailed study of representative Acts and Conventions, provides the basis for recognizing the origin and status of organizations currently exercising control and regulation, estimating effects of aviation legislation on national and international endeavors, appreciating the need for new or changed control with changing conditions, anticipating the effects of legislative or rule proposals on priority requirements of national defense, the public interest, and rights of the individual.

AS 307 — Flight Physiology..... 2 Credits A study of aeromedical information significant to pilots. Upon completion, the student will explain the causes, symptoms, prevention, and emergency treatment of ailments common to the flight environment. He will describe man's normal functioning and the variations necessary for the onset of hypoxia, hyperventilation, decompression sickness, vision problems, spatial disorientation, and body heat imbalance. This is accomplished through the determination of the unique factors found at high altitudes.

AS 308 - Aircraft

AS 311 - Aircraft Engines,

and operation of the small to medium size airport and associated fixed base operations. Representative areas of study include airport and operator expansions as dealt with in terms of federal, state, and local obligations; necessity for good community relations for future development; guidelines for establishing leases; and internal guidelines for good F.B.O. management. A study of the potential business and employment opportunities as represented by the average general aviation airport and fixed base operator. Prerequisite: AS 303.

AS 404 — Principles of Instruction I (Formerly Fundamentals of

Flight Instruction)...... 3 Credits During this course, the student will develop a flight training syllabus, construct a number of lesson plans, demonstrate different teaching methods and techniques of instruction which will include the use of instructional aids and various motivational tools. The student will apply the fundamentals of teaching and learning to flight instruction, analysis of flight maneuvers, and evaluation of performance. After completing the course, the student will be competent to conduct instructional activities as a Flight Instructor - Airplane. Prerequisite: FA 202 or Commercial Pilot Certificate.

AS 406 — Principles of Instruction II (Formerly Fundamentals of Instrument Flight

theories and techniques, including the application of basic principles of Educational Psychology to instructional situations, developing effective methods for teaching instrument flying procedures, and maximizing competence in IFR operations. After completion, a student should be able to explain cognitive and motivational theories, construct a usable model of the mind, predict changes in behavior according to behavior modification theories, apply psychological models to educational problems, explain instrument training regulations and requirements, teach: operation of flight instruments and aircraft systems, attitude flying technique, flight planning procedures and chart use, utilization of navigation and safety equipment and application of regulations and procedures; and demonstrate a high level of competence in all IFR related areas. After completion of the course, the student should be competent to conduct instruction as an Instrument Flight Instructor. Prerequisites: A Commercial Pilot Certificate with an Instrument Rating; and AS 404 or a Flight Instructor Certificate with an Airplane Rating (single or multiengine).

AS 409 — Aviation Safety....... 3 Credits An examination of aviation safety designed to help the non-flying student identify major problem areas, evaluate safety programs and recognize the value and total impact of aviation accident prevention efforts. Major emphasis is given to recognition of the inherent hazards and vulnerability of the industry to the accident disaster. Underlying human factors which contribute to the aviation accident are identified, and safety prevention responsibilities of both governmental and private sectors are evaluated. Basic principles of investigation are examined; a survey of accident cases is made to improve recognition of real life failures. Not available to students in Aeronautical Science or the Flight Technology area of concentration of Aeronautical Studies.

AS 410 - Air Carrier

Operations...... 3 Credits This course will provide the student with an overview of the organization, management and operating procedures of United States air carriers in intra-state, inter-state, overseas, and foreign operations. He will gain insight into and enhance his knowledge of the functions involved in the overall air carrier operation. Further, the student will acquire a working knowledge of the sources and content of government regulatory matter, both economic and technical, as it pertains to air transportation. He will better understand the United States Air Transport Policy, the government's role in the control of the air carrier, and the relationship of national policy to the air carrier industry. Prerequisite: AS 303.

AS 412 - Corporate/Industrial

 on selected topics in general aviation. Prerequisites: Consent of instructor and approval of Division Chairman. May be repeated with a change of subject.

COMPUTER TECHNOLOGY

CT 309 - Fortran

on Placement Test. (Lab fee required)

CT 310 — Business

CT 312 Assembly Language

CT 315 - RPG-II

CT 320 - Advanced Business

CT 350 - Modeling Using

CT 410 — Computing Data

CT 420 Operating Systems...... 3 Credits Development, structure, and functions of Operating Systems. Demand service models. Development of a Real Time Operating System. Prerequisite; CT 312. (Lab fee required) CT 430 — Numerical Analysis... 3 Credits N u m e r i c a l s o l u t i o n o f algebraic/transcendental equations, system of equations, differential equations, integral equations; interpolation; finite differences; error analysis. Prerequisites: CT 309 and MA 401; Corequisite: MA 340.

COOPERATIVE EDUCATION

 man and Director of Cooperative Education.

CO 396, 397...... 6 Credits Continuation of CO 296, 297

CO 496, 497..... 6 Credits Continuation of CO 396, 397

ECONOMICS

EC 110 — Economics I........... 3 Credits An introduction to economic principles, problems, and policies, with emphasis on macroeconomic theory, business fluctuations, fiscal and monetary policy, and economic growth.

EC 210 — Economics II........... 3 Credits
An introduction to economic principles,
problems, and policies, with emphasis on
microeconomic theory, current domestic
economic problems, and international
trade.

EC 310 - Labor

EC 340 — Managerial

EC 420 - Economics Of Air

EC 299, 399, 499 — Special Topics In Economics...... 1-4 Credits

Lectures, seminars, laboratories, independent studies, or combinations on selected topics in economics. Prerequisites: consent of the Instructor and approval of the Division Chairman. May be repeated with a change of content.

ENGINEERING SCIENCE

ES 302 - Solid Mechanics

ES 304 — Fluid Mechanics...... 3 Credits
The concepts of stress, deformation rate
and viscosity. The basic equations governing fluid flow. The Bernoulli equation.
Momentum theorems. Similitude. Elements of potential flow, Flow through
tubes and orifices and over surfaces.
Prerequisite: ES 201.

ES 305 — Thermodynamics..... 3 Credits A study of the concepts of heat and work and their transformation, as governed by the first and second laws of thermodynamics. Properties of pure substances. Reversible processes and conventional power and refrigeration cycles. Corequisite: ES 303 and AE 301.

ES 307 - Metallurgy And

ES 401 - Mechanical Vibrations

ES 403 — Heat Transfer....... 3 Credits
One and two-dimensional steady and
unsteady-state conduction heat transfer,
including an introduction to finite-difference and finite-element methods of
analysis. Free and forced convection heat

transfer. Radiation heat transfer. Prerequisites: ES 304, ES 305, MA 340. (Lab fee required)

ES 404 — Electrical Engineering I

ES 405 - Electrical Engineering II

ES 407 - Advanced Solid

ES 408 — Continuum

ES 409 - Space

Mechanics...... 3 Credits Review of mathematical fundamentals including vectors. The two body problem: orbits, satellite launch, cotangential transfer between circular orbits, interception and rendezvous, long range ballistic trajectories. Gyrodynamics and gyroscopic instruments, precession and nutation, gyrocompass, stable and three-axis platform, inertial navigation. Vehicle motion. Performance and optimization, single and multi-stage rockets, flight trajectories, utilization of propellant, gravity turn. Generalized theories of mechanics; systems with constraints, generalized coordinates. D'Alembert and Hamilton's principles, LeGrange equations, missile dynamics and analysis. Prerequisite: ES 303 and MA 441.

ENGINEERING TECHNOLOGY

ET 101 — Engineering

 shop processes and tolerances. Threads and fasteners.

ET 102 — Engineering

parison of the following methods of graphic representation: orthographic, axonometric, oblique and perspective projections. Introduction of descriptive geometry; the principles of orthographic projection applied to the solution of three dimensional problems. Space relationship of points, lines and planes. Curved and wrapped surfaces. Intersections and developments. Vector applications. Prerequisite: ET 101.

ET 303 - Aircraft Drafting And

 crimping, and nibbling. Power tools; saws, drill press, lathe, grinder. Basic shop procedures. (Lab fee required.)

elements under operational conditions. Application and design of mechanical linkages, springs, clutches, brakes, cams, sprockets, gears and gear trains, bearings and lubrication. Other selected topics. Prerequisite: ES 302.

FLIGHT-ACADEMIC

FA 101 — Primary Flight...... 2 Credits Airplane registration, airworthiness, equipment documents, log books, and inspection reports; performance, range and operations; loading and line check. Pre-flight operations, taxiing, normal and crosswind takeoffs and landings; climbs, level flight and descents at normal and minimum controllable speeds; stalls and stall recoveries; 720° steep turns about a point; normal landings; short and soft field takeoffs and landings; slips; emergency operation of aircraft equipment; crosscountry flight planning; cross-country flying; cross-country emergencies; use of radio aids to VFR navigation and control by reference to flight instruments in preparation for the FAA private pilot flight test. Corequisite: AS 100.

FA 113 — Single Engine

retractable landing gear. May be taken in conjunction with FA 201 or 202. Completion is required prior to completion of FA 202. Prerequisite: FA 101, FA 112 or equivalent experience based on ERAU evaluation.

FA 201 - Advanced

FA 202 - Advanced

FA 301 - Instrument

Flight..... 2 Credits Instrument flight planning; filing an instrument flight plan; aircraft performance, range and fuel requirements; required instrumentation and equipment and their proper use; advanced instrument flight techniques; recovery from unusual attitudes; emergency procedures; IFR navigation and instrument approach procedures including VOR, ILS, DME, ADE, and radar approach procedures; holding procedures; missed approach procedures; compliance with ATC procedures including actual IFR cross-country flying. Prereguisites: AS 201, AS 302 and FA 202 or equivalent experience based on ERAU evaluation, plus FAA Commercial Pilot Certificate.

FA 310 - Multi-Engine

Flight...... 1 Credit Multi-engine aircraft systems, loading and performance: V speeds; theories of multiengine flight; preflight procedures; basic airwork: landings and takeoffs, cruise control and fuel management; emergency procedures-general; engine-out emergencies night landings and takeoffs; multiengine instrument flight including all types of approaches; emergency procedures in instrument flight including engine-out instrument approaches and missed approaches, Prerequisites: FAA Commercial Pilot Certificate and Instrument rating. Corequisites: AS 308. A one hour flight allowance is included for FAA check ride.

FA 401 - Advanced Instrument

FA 403 — Advanced Instrument Flight,

FA 404 - Flight Instructor Flight

Airplane flight test. Prerequisite: FAA Commercial Pilot Certificate with instrument rating. Corequisite: AS 401.

 instructor's rating to teach the Multi-Engine Transition and to qualify him for the FAA Multi-Engine Instructor's rating. Prerequisites: FA 310 or equivalent based on ERAU evaluation, plus FAA Multi-Engine certificate and FA 404 or equivalence based on ERAU evaluation. (Special fee required)

FLIGHT TECHNOLOGY — FLIGHT COURSES

FP 100 - Private Pilot 0 Credits Flight ... Airplane registration, airworthiness, equipment documents, log books, and inspection reports; performance, range and operations; loading and line check. Pre-flight operations, taxiing, normal and crosswind takeoffs and landings; climbs, level flight and descents at normal and minimum controllable speeds; stalls and stall recoveries; 720° steep turns about a point; normal landings; short and soft field takeoffs and landings; slips; emergency operation of aircraft equipment; crosscountry flight planning; cross-country flying; cross-country emergencies; use of radio aids to VFR navigation and control by reference to flight instruments in preparation for the FAA private pilot flight test. Corequisite: FT 100.

FP 200-Commercial

 tions. Transition to higher performance aircraft. Introduction and practice of precision maneuvers in preparation for the FAA Commercial Pilot flight test. Level of Commercial syllabus to be enrolled in is dependent upon previous experience and ERAU flight evaluation. Prerequisites: FP 100, Private Pilot Certificate, or equivalent experience based on ERAU evaluation. Corequisite: FT 200.

FP 300—Transition Flight....... 0 Credits A specialized course designed to prepare FAA certificated Commercial Rotocraft/Helicopter pilots for the addition of airplane-single engine land and instrument ratings to existing pilot certificates. Includes familiarization with fixed wing aircraft, stalls, takeoffs and landings, ground reference maneuvers, precision maneuvers, basic instruments, instrument flight planning, instrument navigation and approaches. Prerequisites: FAA Commercial Pilot Certificate with Rotocraft/Helicopter Category and class ratings. Corequisite: FT 301.

FP 301—Instrument Flight...... 0 Credits Instrument flight planning; filing an instrument flight plan; aircraft performance, range and fuel requirements; required instrumentation and equipment and their proper use: advanced instrument flight techniques; recovery from unusual attitudes; emergency procedures: IFR navigation and instrument approach procedures including VOR, ILS, DME, ADF and radar approach procedures; holding procedures; missed approach procedures; compliance with ATC procedures including actual IFR cross-country flying. Prerequisites: FP 200, or equivalent experience based on ERAU evaluation, plus FAA Commercial Pilot Certificate, Corequisite: FT 301.

FP 310-Multi-Engine

FP 401-Advanced Instrument

 matter given in FP 401 is conducted in the multi-engine aircraft and the multi-engine flight simulator. Prerequsites: FAA Private Certificate, with Multi-engine and Instrument rating.

FP 404-Flight Instructor Flight

on ERAU evaluation.

FLIGHT TECHNOLOGY — CLASSROOM

FT 100 - Private Pilot Ground

.. 0 Credits School..... A comprehensive study of basic topics necessary for the beginning flight student. Upon completion, the student will be qualified to pass the FAA Private Pilot written examination. The student will explain and use the elementary principles of radio communications, radio navigation, elements of the airplane, aircraft systems, weight and balance, aerodynamics, basic piloting procedures, and maneuver techniques, Federal Aviation Regulations, navigation computer, basic navigation (pilotage and dead reckoning), airports, Airman's Information Manual, and physiology of flight. Corequisite: FP 100

FT 200 - Commercial Ground

FT 301 - Instrument Ground

A complete study of gyro and differential pressure instruments incuding their construction, operating characteristics, and use under actual instrument weather conditions. Upon completion, the student will be qualified to pass the FAA Instrument Pilot written examination. The student will interpret and use Instrument Approach Charts, Enroute Charts and associated inflight procedures. He will explain Federal

Aviation Regulations pertaining to instrument flight, departure, enroute, arrival, and emergency procedures. He will evaluate aviation weather (including charts, forecasts and severe weather). He will exhibit the use of IFR flight planning and Air Traffic control procedures. The student will demonstrate the procedures to file for and conduct instrument flights under actual instrument conditions, safely, efficiently, and in compliance with Air Traffic Control instructions and Federal Aviation Regulations. Prerequisites: FT 200 or FAA Commercial Pilot Certificate. Corequisite: FP 301

FT 404 - Fundamentals of Flight

FT 406 - Fundamentals of Instrument

HUMANITIES

HU 010 - Cultural and English

HU 015 - Developmental

HU 105 - Developmental

HU 115 - Developmental

HU 120 — Communications I.... 3 Credits
The course concentrates on expository
writing, interpretation, analysis, and research exercises. Fiction and non-fiction
from library and textbook sources are
used to aid the student to develop communicative and evaluative skill.

HU 121 — Communications II... 3 Credits A continuation of HU 120. Reading material — selected novels, poems, and plays. Prerequisite: HU 120

HU 130 — Elementary

HU 135 — Elementary

HU 220 - Communications III

A continuation of Communications I and II with concentrated emphasis upon speaking effectively. Modern and traditional theory and methods, study and practice of informative, persuasive, and symposium rhetorical forms are included in the course. Prerequisite: HU 121.

HU 221 - Technical

Report Writing...... 2 Credits

The preparation of formal and informal technical reports, abstracts, resumes, and business correspondence. Emphasis will be placed on the long technical paper. Prerequisites: HU 120 and HU 121.

HU 230 - Advanced Spanish

Conversation And Reading...... 3 Credits Continuation of HU 130 and HU 135 with emphasis on development of fluency in conversation and reading.

HU 240 — Art Appreciation..... 2 Credits A survey of painting, architecture, and sculpture, covering the major period of art history and basic criteria for aesthetic understanding.

HU 245 — Music Appreciation.. 2 Credits Introduction to the history and appreciation of music that has substantially influenced our culture. Lecture and listening hours. HU 250 - Introduction to

HU 300 — World Literature.... 3 Credits Major works and literary trends in world literature. Prerequisites: HU 120 and HU 121.

HU 305 — Modern Literature... 3 Credits The mainstreams of literature of this century. The specific content — genre and major writers to be studied — will vary from trimester to trimester. Prerequisites: HU 120 and HU 121.

HU 310 - American

HU 340 - Introduction to

 major philosophical systems such as dialectical materialism, pragmatism, and existentialism.

HU 345 - Religions Of

MATHEMATICS

MA 011 — Developmental

MA 104 — Slide Rule...... 1 Credit Basic slide rule principles and use.

MA 105 — Basic Mathematics... 3 Credits Fundamentals and theory of algebra, basic laws of fractions, exponents, radicals, factoring, linear equations, graphs and systems of linear equations. (Credit not applicable to any degree.)

MA 111 - College Mathematics

probability and statistics designed for the student of aviation. Differentiation and integration of polynomials and transcendental functions, applications of velocity, acceleration, area, volume, work and fluid pressure and design; comparison of discrete and continuous systems, frequency distribution, histograms and other statistical measures. Prerequisite: MA 111

MA 120 — Quantitative Methods I (Formerly College Math I)....... 3 Credits Fundamental arithmetic and algebraic operations, functions, graphs, logarithms, matrix algebra. Prerequisite: MA 111 or equivalent.

MA 140 — College Algebra...... 3 Credits Sets, equations, inequalities, functions, systems of equations, determinants, quadratic equation, partial fractions, logarithms. Prerequisite: MA 111 or equivalent.

MA 141 — Trigonometry....... 2 Credits Solution of right triangles, reduction formulas, functions of several angles and multiple angles, trigonometric equations, inverse functions and complex numbers. To be taken concurrently with MA 140. Prerequisite: MA 111 or equivalent.

MA 211 - Introduction to

MA 220—Quantitative Methods II.

(Formerly College Math II)...... 3 Credits Limits; differentiation and integration of algebraic, exponential and logarithmic functions; applications of differentiation to maximizing, minimizing and curve sketching; the differential; marginal values; applications to economic and business problems. Prerequisite: MA 120 or MA 111 or MA 140.

MA 222—Business Statistics..... 3 Credits Measures of central tendency and dispersion; histograms; axioms and arithmetic of probability; finite sample spaces; dependent events and Bayes Theorem with applications to management problems; binomial, Poisson, and normal distribution and their interrelationships; discrete and continuous random variables; special continuous distributions; sampling distributions; hypothesis testing; estimation and confidence intervals. Prerequisite: MA 220, or MA 241 or MA 112. Offered fall & spring.

MA 241—Calculus and

MA 242-Calculus and

Analytical Geometry II............ 4 Credits
The definite integral; differentiation and
integration of trigonometric and exponential functions; parametric equations; polar
coordinates; Arc length; center of mass.
Prerequisite: MA 241.

MA 243-Calculus and

MA 300—Applied Logic......... 3 Credits Algebra of logic; truth tables; axiomatic systems; set theory; Boolean algebra; design and simplification of digital circuits. Prerequisite: MA 111 or MA 120 or MA 140. Offered spring term.

MA 320—Decision Mathematics. 3 Credits
The mathematical concepts and applications in mathematical model building and
problem solving. Included are

mathematical areas which are basic to decision theory. Prerequisite: MA 222.

MA 340—Differential Equations. 3 Credits Treatment of ordinary differential equations to include principal types of first and second order equations; methods of substitution on simple higher order equations; linear equations and systems of linear equations with constant coefficients; methods of undetermined coefficients and variations of parameters; Laplace transforms, series solutions applications to physics and engineering. Prerequisite: MA 243.

variables; expected value, variance and standard deviation; systematic study of the major discrete and continuous random variables; moment generating functions. Prerequisite: MA 242 concurrently or MA 220. Offered spring term.

25. Offered spring term.

MA 441—Advanced Engineering

MA 442—Advanced Engineering

MA 443—Complex Variables.... 3 Credits A study of complex numbers, complex functions, derivatives and analytic functions. Additional topics on complex integration, power series expansion, conformal mapping and their applications are covered. Prerequisite: MA 441. Offered summer term.

MANAGEMENT SCIENCE

MS 110 — Accounting I........ 3 Credits An introduction to accounting: double entry, income statement, balance sheet, interpretation of accounts; partnerships and corporations. (Lab fee required)

MS 112 — Accounting II....... 3 Credits (formerly MS 212)

The purpose of this course is to acquaint the student with the basic principles and fundamentals of cost and income tax. At the end of the course the student should be able to prepare and analyze the books for partnerships and small corporations; set up basic cost systems; prepare financial statement analysis and give reasons for their evaluations. Prerequisite: MS 110.

MS 200 - Principles of

environment and opportunities. Organization, marketing, and operational factors considered.

MS 305 - Management Analysis

MS 308 - Public

MS 313 - Personnel

and control, financial planning, short-term and intermediate term financing, longterm financing and financial strategies. Prerequisites: MA 222, MS 112 and MS 305.

MS 316 — Psychology Of

MS 318 — Business Data

MS 322 - Aviation

water, and pipeline, including problems of competition, the importance of each in the economy, and future developmental prospects. Prerequisites: EC 110, EC 210 and MS 200.

MS 390 — Business Law I...... 3 Credits A survey of the legal aspects of business transactions. Contracts, agency, bailments, negotiable instruments. Prerequisite MS 200.

MS 400 — Business Law II...... 3 Credits Continuation of MS 390 to include legal aspects in the areas of: partnerships, corporations, sales, consumer credit, and government influence on business law. Prerequisite: MS 390.

MS 405 — General Aviation

MS 408 - Airport

MS 410 - Management Of

prospects. Prerequisites: MS 110, EC 210 and MS 305.

MS 415 - Airline

MS 420 - Industrial

MS 421 - Small Business

MS 430 — Management

and middle management. Prerequisites: MS 401 and MS 420.

pendent studies, or combination on selected topics in management. Prerequisites: Consent of the Instructor and approval of Division Chairman. May be repeated with change of content.

MAINTENANCE TECHNOLOGY

MT 010 — General

MT 011 - Basic Airframe

MT 012 - Basic Powerplant

MT 013 - Aircraft Systems

MT 014 - Aircraft Electrical

MT 015 - Advanced Reciprocating

Powerplants Laboratory........ 21.5 CEUs Reciprocating Engines, Engine Inspection, Engine Electrical Systems, Ignition Systems, Fuel Metering Systems, Engine Fuel Systems, Induction Systems, Engine Cooling System.

MT 016 - Turbine Engine

MT 017 - Advanced Airframe

MT 018 - Propellers

CEU credit is not posted on the transcript until the entire program is satisfactorily completed.

MILITARY SCIENCE AND TACTICS ARMY ROTC

(In Conjunction with Stetson University)

MY 101 — Basic Military Science 2 Credits	completion of Basic Course or active military service.
MY 102 — Basic Military Science 2 Credits	MY 302 — Advanced Military Science
MY 201 — Basic Military Science	Continuation of MY 301. MY 401 — Advanced Military Science
Science	Prerequisite: MY 302. MY 402 — Advanced Military
Science	Science

PHYSICAL EDUCATION

PE 101, 102, 201, 202 — Physical Activity	PE 222 — Science Of Exercise And Athletics
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PHYSICAL SCIENCE

PS 101 — Basic Chemistry 3 Credits Elementary Chemical Theory with considerable application to the Aeronautical Science and Aviation Management student. Covers basic atomic theory, elements, compounds and mixtures, calculation of weight and weight volume relationships, basic descriptive chemistry.
lation of weight and weight volume rela- tionships, basic descriptive chemistry. (Not open to Engineering majors.) Core- quisites: MA 111 or MA 120.

 course. Topics will include: Newton's Laws, gravitation, projectile motion, conservation laws, sound, light special theory of relativity, and quantum theory. MA 112 or MA 220 required before or simultaneously with the course. (Not open to Engineering majors.) (Lab fee required.)

hydrogen. The periodic system. Conservation of mass and energy. Corequisite: MA 140 or MA 241. (Lab fee required)

PS 106 - Chemistry II with

PS 201 — Physics I, Mechanics

And Heat With Laboratory...... 5 Credits Vector and scalar quantities, Newton's Laws of motion and gravitation, Friction. Work. Energy. Power. Torque and rotational motion, Momentum, Curvilinear motion. Elastic properties of matter, Fluids at rest and in motion, Properties of gases. Heat. 4 lectures per week and one 3-hour laboratory per week. Corequisite: MA 241. (Lab fee required). Offered fall & spring.

PS 202 — Physics II, Sound, Electricity And Light With

terference. 4 lectures per week and one 3hour laboratory per week. Prerequisite: PS 201. (Lab fee required.) Offered fall & spring.

PS 303 — Modern Physics....... 3 Credits
A survey course in modern concepts in physics. The nucleus and atomic structure. Fundamentals of wave mechanics. Basic relativity. Mossbauer effect. Parity and fundamental particles. High energy physics, cryogenics and superconductivity. Fundamentals of electronics. Microwave Optics, Stimulated emission, lasers. Prerequisite: PS 202. Offered spring.

PS 304 - Man And His

PS 299, 399, 499 - Special Topics

SOCIAL SCIENCE

SS 110 — World History........... 3 Credits
Designed primarily as a survey of the
development and evolution of Western
Civilization from 1500 to the present.
Emphasis is placed on the effect of
Western influence on the globe.

SS 120 — American History..... 3 Credits (1865 to the present). Reconstruction; the age of big business; the US as a world

power; World War I and II. The great depression and its aftermath.

SS 210 - Introduction To

 impact of science on the social order living in an air-age will also be investigated.

SS 220 - Introduction To

SS 310 — Personality

SS 320 - American National

SS 330 — Current History...... 3 Credits
A course in selected Political-Social-Economic issues of national and international importance. Extensive use of journals magazines, and newspaper to supplement lectures and discussions.

SS 340 - American Foreign





ACADEMIC REGULATIONS

ACADEMIC REGULATIONS

Introduction

This section describes the academic regulations and procedures of the University. The achievement of personal and academic goals depends upon the student's awareness of and adherence to these rules.

Trimester Hour Credits

At Embry-Riddle all credits are recorded in terms of trimester hours. A trimester hour consists of one 50-minute classroom lecture per week for 15 weeks, or its equivalent. Three laboratory hours are equivalent to one lecture hour. A trimester hour is equal to a semester hour; however, since ERAU offers three semesters a year, they are called trimesters.

Grading Procedure

Gradin	g Procedure	
A	Superior	
В	Above Average	3
C	Average	12
D	Below Average	
F	Failure	
W	Withdrawal from	
	course	10
WP	Withdrawal from	
	school — passing	
WF	Withdrawal from	
	school — failing	
X	Credit by examination	
T	Accepted by transfer	
P	Passing (credit)	
S	Satisfactory	
	(non-credit)	
AU	Auditing course	
	without credit	
I	Passing but incom-	
	plete work	
N	No grade submitted	
	by Instructor	

If a student cannot complete required work in a course and if his reasons are acceptable to his instructor, he may receive an incomplete grade. A grade of "I" must be made up not later than the end of the sixth week (third week for summer terms) from the end of the trimester in which the student received the (I) Incomplete grade. Otherwise, the "I" is automatically changed to an "F" by the Dean of Admissions and Records.

A student may withdraw from a course during the first twelve weeks (six weeks for summer term) of a course and receive a grade of "W". The date of course withdrawal (drop) is the date that the procedure is completed and recorded by the Dean of Admissions and Records.

If a student stops attending class without completing the official withdrawal procedure, he receives the grade "F." If a student withdraws from school after twelve weeks (six weeks for summer term), he is assigned a WP or WF for each course on the basis of his performance in the course up to the time of his official withdrawal.

Grade Point Average

0

0

A grade point average (GPA) is computed for each student at the the end of each trimester. The GPA is determined by dividing the total number of grade points earned at Embry-Riddle by the total number of trimester hours attempted.

When a "W," "X," "P," "I," "N," "AU," "WP," "S," or "P" grade is recorded for a course, the hour value does not count as hours attempted.

A course may be repeated once with the grade awarded for the second attempt replacing the first grade. Both attempts will appear on the student's record, but only the second grade will be computed in the grade point average. Third and subsequent attempts will appear in the student's GPA along with the second attempt.

Attendance

Regular attendance and punctuality are required at all times in all courses. Arrangements for completing missed work may be made with the instructor at his discretion. It is the responsibility of the student to initiate these arrangements.

An examinnation normally is given in each course at the end of the trimester. A student who misses an examination without advance permission of the instructor may be given an "F" in the course. The student may receive an incomplete grade if he can show evidence that his absence absolutely could not be prevented.

Attendance at Other Schools

Students desiring to take academic courses or technical courses at other institutions of higher education (not over 11 credit hours in any one term) while enrolled at ERAU, must obtain prior permission at the office of the Dean of Admissions and Records of Embry-Riddle Aeronautical University. Once a student enrolls in a flight course at ERAU he must accomplish all subsequent flying required by the program in which he is enrolled in residence in order for credit to be granted toward completion of his program. This applies to currently-enrolled students and to students not currently enrolled but maintaining "continuous enrollment."

Flight training at other schools is generally not permitted. Students who attend other schools without proper prior approval will not receive credit for the courses taken.

Developmental Education

This program has been initiated to provide entering students with an opportunity to improve their capabilities in the basic skills required to successfully compete in a University environment.

Since proficiency in reading is necessary for success in both degree and certificate programs, students whose scores indicate a need to develop their reading skills in order to succeed in their program will be required to take a developmental reading course (HU 015 or HU 115). Since these courses use modern equipment, material and techniques which adapt to individual student needs — all students scoring below the 70th percentile are encouraged to take one of these courses.

Degree students are required to take SAT examinations before entering the University. Students who score below 450 on the SAT mathematics examination and/or who have not completed high school Algebra I with a grade of C or better, are required to take MA 105, "Basic Mathematics."

Certificate students (both Maintenance Technology and Flight Technology) are required to take an ERAU mathematics test upon entering the University. Students scoring below 70% on this test are required to take MA 011, "Developmental Math."

Students whose scores in English usage indicate a need for improvement in order to succeed in college level courses are required to take HU 105, "Developmental English."

Before the end of the first term of the junior year, all academic degree students must pass the college English writing proficiency test. (Foreign students may be exempted from this requirement by the Dean of Academic Affairs.) Students who fail to pass this examination are required to take (and pass) HU 229. Passing this examination or passing the course, is a requirement for graduation for all academic degree students.

Except for HU 115, these courses do not apply toward the credit hour requirement for any degree program except where specifically indicated in the curriculum outline.

Continuing Education Units (CEU)

Embry-Riddle awards Continuing Education Units and accepts CE Units as partial fulfillment of degree requirements in certain areas of concentration. The Southern Association of Colleges and Schools defines the Continuing Education Unit as ten hours of participation in an organized continuing education experience under responsible sponsorship, capable direction and qualified instruction.

At Embry-Riddle, the CEU is used to measure practical, "hands-on," applications oriented learning experience. A request for Continuing Education Unit credit must be accompanied by an appropriate description of the learning experience and an authorized statement of satisfactory completion. The University Curriculum Committee reviews and determines the applicability and relevance of CEU's to appropriate Areas of Concentration.

Admissions

Academic Regulations related to admissions standards and procedures are included in the Admissions section of this Catalog.

Honor Students

Recognition is provided for outstanding academic performance. An Honor Roll

and Dean's List are published at the end of each trimester, based on academic performance for the trimester. Honor Roll: GPA 3.20 — 3.49; Dean's List: GPA 3.50 — 4.00.

Honors are also awarded upon graduation based on overall GPA, as follows: "Cum Laude," GPA 3.50—3.69; "Magna Cum Laude," GPA 3.70—3.89; "Summa Cum Laude," GPA 3.90—4.00. To be eligible for graduation honors, a student must complete a minimum of sixty (60) trimester hours in residence. Graduation honors are only awarded for Baccalaureate Degrees.

Classification of Students

Students are classified at the end of each trimester as follows:

 Academic Student: A student enrolled in a program for which the goal is a degree (BS or AS).

a. Freshman: 30 hours or less
b. Sophomore: 31-60 hours
c. Junior: 61-90 hours
d. Senior: 91 hours and up

Full time academic status is a trimester credit hour load of 12 or more hours. A GPA of 3.0 is necessary to enroll for more than 18 credit hours per trimester, or 9 credit hours per half Summer trimester. Any exception must be approved by the Dean of the College in which the student is enrolled.

- Flight and Maintenance Technology Students: Students enrolled in technical programs for which the goal is a Certificate; or an academic student earning a requisite technical Certificate.
 - a. A Maintenance Technology student is classified by the number of the full-time trimesters in

- which he is enrolled first, second, etc.
- A Flight Technology student is classified by the Phase in which he is enrolled.
- Special: A student not seeking a specified degree or certificate and not enrolled in a program.
 - a. Special Student: Receives credit as appropriate.
 - Auditor: Does not receive credit for courses.
 - Special Flight Student: Takes Flight Technology courses only.

Academic Students, Special Students, Auditors and Special Flight Students are classified as full-time students if carrying 12 or more credits or non-credit hours; otherwise, they are classified as part-time students. Technology students carrying 30 clockhours are full-time students.

Auditing

A student may audit one or more courses without credit. The fee for auditing is the same as for registering for credit. At no time can a student registered for audit receive credit.

Changes from audit to credit, or credit to audit, may be made only during the published "add" period and are made by a procedure similar to adding and dropping a course.

A student enrolled in a course for audit who fails to maintain satisfactory class attendance as determined by the instructor, is assigned a grade of "W."

Academic Probation and Dismissal

Academic probation is imposed when the cumulative grade point average of the student falls below 2.0. A student who is on academic probation will not be permitted to serve as an elected member of the S.G.A., serve on the editorial staff of a campus publication, or participate in intercollegiate athletics.

If academic probation is removed by converting a grade of "I" to a grade of "A," "B," "C," or "D," the academic probation will not become a part of the permanent academic record.

After being placed on probation, a student is given two trimesters to raise his grade point average to 2.0. If he fails to do so, he is subject to dismissal.

Any student who has a trimester GPA of less than 1.00 may be academically dismissed at the discretion of the Dean of the College in which the student is enrolled.

Dismissal From The University

When a student makes application for entrance to ERAU he thereby understands and agrees that the University reserves the right to dismiss him at any time if his/her conduct, academic standing, or other performance is regarded by the University as undesirable, without assigning any further reason therefor. Upon enrollment, it is understood and agreed that the University or any of its officers, administrative staff, or faculty shall not be liable in any way for such dismissal.

Withdrawal from the University

A student desiring to withdraw from the University must do so officially by executing a clearance form at the Dean of Students Office.

Change of Program

If a student wishes to change his academic or technical program, he must apply for such change through the office of the University Registrar. A student desiring to change from a technical to a degree program must comply with all degree admission requirements. Under no circumstances will a retroactive change of program be accepted by the University.

When a student changes programs, he will be required to meet the requirements of the bulletin in effect at the time of the change.

Graduation Requirements

In order to graduate from any academic or certificate program, a student must:

- Successfully complete all required courses. (The Dean of Admissions and Records must certify satisfactory completion of all courses required by the ERAU catalog in effect when the student entered the program.) When a student has interrupted his studies for more than one trimester and is readmitted by the Admissions Office, he must meet the requirements of the Catalog in effect for the trimester he is re-admitted. A student may elect to graduate in accordance with a later Catalog.
 - Have completed a minimum of 30 hours of course work for a B.S. degree or 12 hours for an A.S. degree at Embry-Riddle and the last 30 hours or the last 12 hours, respectively, completed in residence. Students enrolled at off-campus locations must be enrolled in ERAU courses during the last two terms prior to graduation.
 - Have obtained a cumulative grade point average of 2.0, or better, for any undergraduate degree (BS or AS). (70% in Flight and Maintenance Technology Programs.)
 - 4. For a B.S. degree have completed a

- minimum of forty credits in upper division (300 and 400 level) courses. The status of the course is determined by the college initially granting the credit.
- Have been enrolled in the degree or certificate program in which he is graduating for at least one applicable course in the trimester immediately preceding graduation. (When graduating with more than one degree must have been enrolled in the higher one.)
- 6. Satisfy all financial obligations.
- Be recommended by the faculty and Dean of the appropriate college.

Diplomas are awarded to graduates of curricula composed of college credit courses. Graduation certificates are awarded to students completing other programs, such as Maintenance Technology and Flight Technology programs. Application for a diploma or certificate must be initiated by the student and received (after appropriate recommendations, approvals and fee payment have been made) by the Dean of Admissions and Records eight weeks before the end of the trimester when the degree or certificate is to be awarded.

Two degrees of the same rank (e.g., BSAE and BSAET), will be conferred only upon earning an additional 30 credits more than is required for the lesser of the two degrees for two B.S. degrees or 12 credits more for the lesser of two A.S. degrees. For two B.S. degrees, a minimum of 60 credit hours must be earned in residence. The required additional credit hours (30 for B.S., 12 for A.S.) for the second degree must be applicable to the required or applicable to the first degree. For the second B.S. degree 20 of the 30

additional hours must be in upper division courses.

Graduation ceremonies for eligible students are held in April, August and December of each year. Students completing requirements in mid-term may participate in the ceremony following.

Candidates for graduation may apply for graduation "In Absentia" to the office of the Dean of Students. If approved, the graduate's diploma/certificate will be mailed at a date subsequent to that established for his particular ceremony by the Office of the Dean of Admissions and Records.

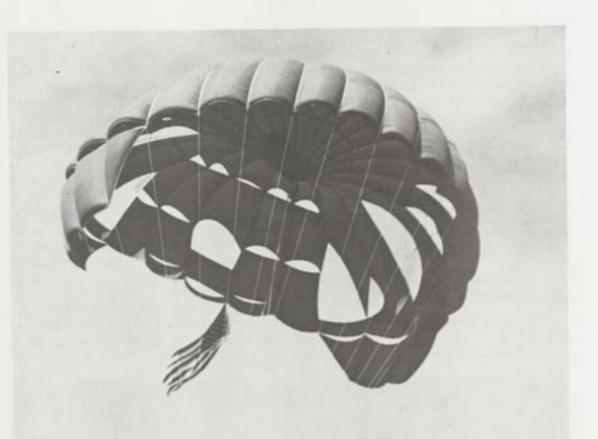
Student Responsibility

The student is responsible for informing himself of all rules, regulations and procedures required for continued attendance at the University. These are generally embodied in this catalog, the Student Handbook, Dormitory Regulations, and such other instructions as are published from time to time. Regulations will not be waived nor exceptions granted because a student pleads ignorance of the regulations or claims failure of his advisor to keep him informed.

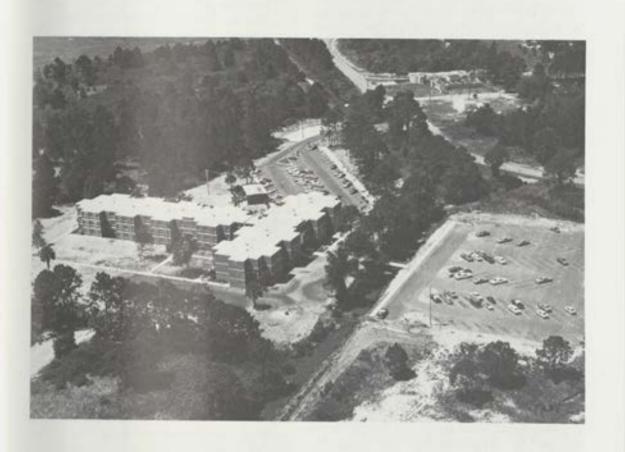
Student Rights and Privacy

Rights and privacy of students is the subject of Public Law 93-380 which became effective November 19, 1974. The law requires a student to sign individual release forms for each company, school, etc., to whom he wants information released. Additionally it allows students to review their files. Any student desiring more information should contact the Dean of Students Office.









STUDENT SERVICES AND ACTIVITIES

STUDENT SERVICES AND ACTIVITIES

Student Government Association

The Student Government Association of Embry-Riddle Aeronautical University has as its membership all full-time students. The governing body of this Association is the Student Senate. It is composed of representatives elected by the student body.

The purpose of the Student Government Association is to promote the welfare and represent the interests of the student populace in relations with the University and other organizations. It maintains liaison with the administrative staff and cultivates relations with other Universities.

The Student Government Association is responsible for conducting student oriented social functions including dances, barbecues, lectures, trips, movies, and other activities. It makes recommendations for governing vehicular traffic on campus, and is responsible for promulgation and enforcement of such regulations as may be required. It assists the office of the Dean of Students in governing student conduct.

The Embry-Riddle Aeronautical University Student Government Association enjoys a unique position among student organizations throughout the world in the degree of responsibility and authority delegated to and administered by its membership. The SGA has two voting members on the University Board of Trustees.

Appearance and Dress Policy

All faculty, staff, and students:

- 1. Must wear shoes on the campus.
- Will not wear undergarments in place of outergarments.

- May not wear trousers or shorts that are "cut off" or "torn off" on campus (except in dormitory areas).
- Are to be clean with hair well groomed.
- Should present an appearace at all times which will reflect favorably upon themselves, their associates, the University, and the aviation community.

Safety in the many aviation activities at Embry-Riddle is of paramount importance; therefore, individual dress should be in accordance with the safety requirements of the task being performed.

Counseling and Guidance Service

The Counseling and Guidance Service is a facility whose primary concern is to assist the students in pursuing a successful college career. The professionally trained Counseling and Guidance Staff offers confidential counseling through individual or group guidance interviews. The students are encouraged to utilize this counseling service and to allow the counselors to assist them with personal, educational, and/or vocational problems. Guidance is provided in areas concerning decision making, choosing a specific college major, and improving study habits. The Counseling and Guidance Staff is prepared to aid students in discovering their own values and goals and help them fully develop their abilities.

Mail Service

Prior to a student's arrival, all personal mail and baggage should be addressed as follows:

Name

c/o Embry-Riddle Aeronautical University Regional Airport

Post Office Box 2411

Daytona Beach, Florida 32015

All baggage and express packages must be sent prepaid. Baggage is stored at the risk of student and the University accepts no responsibility for theft or missing baggage. Baggage will be stored in a locked room.

During registration each student will be assigned to a mail room box which he is required to check on a daily basis, not only for his personal mail but to enable delivery of official University notices. The correct address will then be:

Name MR# Embry-Riddle Aeronautical University Regional Airport Post Office Box 2411 Daytona Beach, Florida 32015

Library Facilities

The library subscribes to approximately 250 periodicals and contains over 25,000 books. It receives trade journals, house organs and general publications of the major airlines. Photocopying services are available.

An up-to-date reference collection is maintained and kept current for the needs of the Aeronautical Engineering, Aeronautical Science, Aeronautical Studies and related programs, including FAA publications, CAB regulations and NASA documents and reports.

Other services include individual reference service, and instruction in the use of the library. The library is classified according to the Library of Congress system.

On-Campus Housing

Modern, air conditioned dormitory facilities are available for full time unmarried or unaccompanied students. However, since applications may exceed available accommodations, students are urged to make their applications as early as possible. Priority for room reservation is based on the date of receipt of the application and accompanying deposit.

Students wishing dormitory accommodations should contact the Director of Housing and request a Dormitory Rental Agreement. Rental agreements are normally written for a full academic year (two consecutive trimesters), or equivalent period.

Those students who wish to apply for dormitory housing and pay the deposit even though space cannot be guaranteed at the time of arrival, will be provided temporary accommodations at dormitory rates for a period up to fourteen (14) days until such time as dormitory space becomes available or a suitable residence can be found off-campus, whichever occurs soonest. In event dormitory space cannot be provided and the student then moves to an off-campus residence, unused dormitory funds on deposit will be credited to tuition charges.

Costs for meals and incidental expenses range from \$30 to \$50 weekly, depending on the individual requirements.

Laundry facilities are available. A linen service is mandatory for all dormitory residents. The linen fee of \$12 per trimester provides for a weekly issue of two sheets, two bath towels, a washcloth, and pillow case. Students are expected to provide their own bedspread, blankets, and study lamp, if desired.

The University reserves the right of entry into dormitory rooms at any time for purpose of inspection, cleaning, repair, or to enforce regulations.

Off-Campus Housing

There are many furnished apartments and homes for rent in the near-by communities to both married and single students. In addition, several mobile home parks are located within a few miles of the University for the convenience of those students owning or desiring to rent a mobile home. The Housing Office will offer all possible assistance in locating offcampus housing. For such information, please contact the Director of Housing.

Placement Office

The Placement Office is the focal point for all employment activities for currently enrolled students, student wives, and alumni; and embraces the entire jobstudent relationship from part-time employment through career counseling and graduate placement.

Specific functions of this office include:
(1) serving as a liaison between students and industrial, commercial, and government employers; (2) arranging and scheduling interviews with prospective employers; (3) preparation of cover letters and resumes; (4) maintaining files of employment reference material; (5) compiling statistics on placement activities; and (6) maintaining and updating data on graduate employment.

The Placement Office is dedicated to serve, not only students and alumni, but faculty, staff, and employers, through communication of employment climate and opportunities, qualifications sought by employers, and statistical data on numbers of students in each curriculum.

Sports

Embry-Riddle, a member of the National Collegiate Athletic Association and the NAIA, participates in intercollegiate competition in soccer, tennis, basketball, baseball and golf. Students who are on academic probation may not compete in intercollegiate athletics. Intramural and/or league competition is available in baseball, basketball, bowling, flag football, golf, softball, volleyball, parachuting, flying and fencing.

Health Service

Physical examinations are required for all entering students. The Health Examination Form is provided by the Admissions Office and must be completed and returned to the University Health Service prior to formal admission (an FAA medical will NOT meet this requirement). This Health Examination form provides authority from the parents/sponsors (or the student if legal entity) to the University administration for emergency medical treatment as directed by competent medical authority. It is agreed that no legal action will be brought against the University or its officers when such authorization by the administration is granted.

The University maintains an infirmary staffed by properly qualified medical personnel.

The Halifax District Hospital is three blocks from the campus and referral service is conducted by the medical personnel at the University infirmary.

Organizations

There are eight campus fraternities. University policy requires at least one trimester in residence prior to pledging except for qualified transfer students. Pledges must not be on academic or disciplinary probation.

SIGMA PHI DELTA Professional Engineering Fraternity; founded at the University of Southern California, 1926; Pi Chapter at Embry-Riddle organized in 1960.

ALPHA ETA RHO International Aviation Fraternity; founded at the University of Southern California, 1929. Epsilon Rho Chapter at Embry-Riddle organized in 1962.

ALPHA RHO OMEGA Professional Aircraft Maintenance Technology Fraternity; founded Embry-Riddle Aeronautical University, 1971.

DELTA CHI International Social Fraternity; founded at Cornell University, 1890; colony at Embry-Riddle established 1971.

LAMBDA CHI ALPHA International Social Fraternity; founded at Boston College, 1909; colony at Embry-Riddle established 1971.

SIGMA CHI International Social Fraternity; founded at Miami of Ohio University, 1855; Eta Iota Chapter at Embry-Riddle installed 1971.

ARNOLD AIR SOCIETY Professional honorary service fraternity of Air Force ROTC cadets; founded at the University of Cincinnati, 1947; Gill Robb Wilson Squadron of Arnold Air Society at Embry-Riddle organized in 1973.

ICARUS HONOR SOCIETY Leadership and scholarship honor fraternity; founded at Embry-Riddle Aeronautical University in 1974.

Student organizations include the Bowling, Sailing, Scuba, Parachute, Rifle and Pistol Clubs, Experimental Aircraft Association, American Institute of Aeronautics and Astronautics, Veteran's Association, International Student Association, Army Aviation Association of America, Soaring and Fencing Clubs.

University Center

The University Center provides a central point of campus activity, including dining and recreational facilities, post office, bookstore, and barbershop. The Center also houses the University Reception Center, Infirmary, Guidance Offices, Placement Office, Student Government Association offices and offices of the student newspaper and yearbook—the AVION and PHOENIX, respectively.

Veteran's Association

The Embry-Riddle Veteran's Association is one of the larger organizations on campus. Its membership consists of veterans and active duty military personnel enrolled at Embry-Riddle. Its main functions are to provide communications between the members and the administration, to assist the veteran to be active within the University and the community. The organization also holds numerous social functions throughout the trimester for the enjoyment of the membership. For more information about the club, contact the Veterans Association Bookstore located in the University Center.

Parents Association

The Parents Association is one of the most active groups in the University community. Its purpose is to facilitate closer personal relationships among students, parents, faculty, and staff. The president of the Parents Association is elected at the annual meeting which is normally held on campus and he or she becomes a voting member of the University Board of Trustees. Parents are always welcome to visit the campus and chat informally with the faculty and staff of the University. When campus visits are not possible, letters or phone calls will receive personal and prompt attention.

Alumni Association

All Embry-Riddle students are invited to join the Embry-Riddle Alumni Association upon graduation from the University. More than 75,000 Embry-Riddle alumni who have graduated since 1926 take part in the growth and development of their alma mater through local chapters of the Alumni Association located throughout the country and in England. The chapter in England is comprised of former RAF pilots who trained at Embry-Riddle during World War II.





FINANCIAL

FINANCIAL INFORMATION

Payment Procedure

Payment in full of all tuition and fees must be made in cash or combination of cash and student loan (See Student Loan Program) prior to the announced payment date but in no case more than two weeks after the start of classes. New students upon acceptance for admission incur a financial obligation of \$100 tuition deposit and \$100 dormitory deposit (where applicable). Continuing students may be required to make a \$100 dormitory deposit as determined by the Director of Housing.

Subject to the regulations concerning funds, the total of tuition and fees is considered fully earned by the University upon completion of registration by the student.

The University reserves the right to make revisions to the prices, schedules and conditions listed in this Catalog at any time.

Students are not encouraged to maintain a credit balance in their accounts as a depository for personal withdrawals. There are many excellent local banking facilities in which accounts may be opened for the safeguarding of personal funds.

Parents, guardians and agencies providing funds for payment of tuition and fees are advised that overpayments to students' accounts will be refunded directly to the student. Any exception to this procedure must be by notice to the University Bursar containing specific instructions for the return of the over payments.

The Board of Trustees has directed the administration to regard quality education as a criterion and to make adjustments to tuition and fees when necessary to ensure continued academic quality.

Tuition Charges Per Trimester

Aeronautical Science Degree Program Amount
12-19 hours (Includes Scheduled \$1850
Flight Courses)

 Part-time students (less than 12 hours) will receive \$70 per credit hour deduction allowance.

Excess hours (more than 19) are charged at the rate of \$70 per credit hour.

c. The Aeronautical Science program has a flat tuition charge for the trimester. The fact that a student might not register for a flight course, adds or drops a flight course, or does not start instruction in a flight course has no effect on his charges or refund. The charges for this program are considered to be tuition and will be handled in accordance with the published policy.

Maintenance Technology Certificate Program (Non-degree)

a. Full trimester \$750

b. Half trimester \$375

 Academic courses per credit hour (optional) \$70

All Other Degree Programs \$850. 12-19 hours (e.g., Aeronautical Engineering, Aeronautical Studies, Aviation Management)

 Part-time students (less than 12 hours) are charged at the rate of \$70 per credit hour.

Excess hours (more than 19) are charged at the rate of \$70 per credit hour.

c. Aircraft Engineering Technology and Aviation Maintenance Management and Aviation Maintenance Technology students may include up to seven credit hours in addition to Maintenance Technology courses at no additional charge.

Other Fees and Charges Per Trimester

Dormitory Charges (Women)

Rate \$275

Dormitory Charges (Men) Linen Fee	\$265 \$12	Aircraft Rates (Maximum ho				
Dormitory Charges for	200	Course	outo no up	proved		ed Hillians
Flight Technology (per month)	\$75	Description	H P	. Hrs.	Rate	Charge
	212		21.1	· III.	reace	Charge
Flight Technology Student	0.2	Multi-Engine	520	20	\$83.00	\$166
Linen Fee (per month)	\$3	(C-310)		2.0	383,00	3100
** Dormitory Damage Deposit	\$20	Flight Instruc			****	0.00
		(Airplane)	100-1		\$18.50	\$37
Insurance		Instrument	100-1		\$18.50	\$37
2) Insurance Fees Student	\$15	Commercial	100-1	50 2.0	\$18.50	\$37
Student/child	\$30					
Student/spouse	\$45	FLIGHT TEC	CHNOLOG	Y CER	TIFICA'	TE
Family	\$45	PROGRAM	I FEES			
Miscellaneous			PRIMAI	RY PHA	SE	
Student Service Fee	\$25	FP 100	Private	Pilot Fli	ght	\$1123.00
Student Government Association	\$11	FT 100	Private (\$ 135.00
3) Miscellaneous Fees						
Where Applicable		IN	TERMED	LATE I	PHASE	
Laboratory Fees \$ (See page 130)		FP 200*	Commer			\$3354.15
	46	FT 200	Commer		CONTRACTOR OF THE PARTY OF THE	
ROTC Activity Fee	\$6	1.1 200	Schoo		runu	\$ 506.25
Budget Payment Plan		ED 20088				\$2430.50
Service Charge	\$25	FP 300**	Transitio			
*Includes Pro-rate charges for campus	bus	FP 301	Instrum			\$ 912.50
transportation and custodial services.		FT 301	Instrum		und	
			Schoo	d		\$ 168.75
**Initial Deposit Only - Student requir	ed to					
maintain minimum balance of \$20 in accou	int —		ADVAN			
refundable.		FP 310	Multi-E	ngine Fl	ight	\$1015.00
		FP 401	Advance	ed Instr	ument	
Prices, schedules and conditions listed in	n this		Flight	I		\$ 750.00
Bulletin are subject to change without notice		FP 402	Advanc		ument	
panetti are subject to enouge without note		77.077	Flight			\$ 590.00
		FP 403	Advanc		ument	
One Time Non-Refundable Fees -		11 405		, Multi-		\$ 970.75
All Students		FP 404				3 310.12
Application	\$25	LL 404	Flight I			\$ 750.50
		PPP 404		Labora		
Non Referedable Press		FT 404			of Flight	
Non-Refundable Fees			Instru	District Control of the Control		\$ 168.75
Where Required		FP 406	Instrum			
Flight Placement Check				ictor Fl	ight	
Ride 1	\$25		Labo	ratory		\$ 773.00
Flight Course Equivalency		FT 406	Fundan	entals o	of	
Examination 2	\$50		Instru	ment F	light	
Maintenance Technology				ecting		\$ 90.00
Orals & Practicals	\$50	FP 410	Multi-E		light	
SAT Bypass Fee	\$7		Instru			
SAT Fee (Includes late				ratory		\$1028.25
registration)	\$100	FP 499			-Flight	TBA
Late Registration Fee	\$50	11.422	Operan	r ofues.	r right	
Re-instatement of a cancelled registration	\$100	*Flight Te	chnology	students	from F	P 100 will
Late Payment Fee	\$25	normally ent				
1. Single Engine; Multi-engine at hourly		the Flight Te				
	lates					
prescribed.	2000	assigned to				aseu upon
2. Minimum charge. Fees according to	type	ERAU flight				
examination given.		**A spec	citied co	urse t	o prep	are FAA

certificated Commercial Rotorcraft/Helicopter pilots for the addition of airplane-single engine land and instrument ratings to existing pilot certificates.

ACADEMIC FLIGHT FEES

Flight costs for students enrolled in degree programs other than Aeronautical Science and who are concurrently enrolled in flight courses are as follows:

me no rone	777.012	
FA 101	Primary Flight	\$1123.00
FA 112	Basic Flight	\$ 851.75
FA 113*	Single Engine	The state of the s
	Transition 1	\$ 313.50
FA 201	Advanced Flight I	\$1216.15
FA 202	Advanced Flight II	\$ 972.75
FA 301	Instrument Flight	\$ 912.00
FA 310	Multi-Engine Flight	\$1015.00
FA 401	Advanced Instrument	
	Flight I	\$ 750.00
FA 402	Advanced Instrument	
	Flight II	\$ 590,00
FA 403	Advanced Instrument	No. of Contract
	Flight, Multi-Engine	\$ 970.75
FA 404	Flight Instructor	
	Flight Laboratory	\$ 750.50
FA 406	Instrument Flight	
	Instructor Flight	
	Laboratory	\$ 773.00
FA 410	Multi-Engine Flight	70.00000
	Instructor	
	Laboratory	\$1028.25
FA 499	Special Topics in Flight	TBA
*Complet	ion required prior to com	pletion of
FA 202.		

Flight fees in all degree and certificate programs are based on the number of flight hours specified in each of the Scheduled Flight Courses. Excess flight hours are charged in accordance with the following aircraft rates per hour:

Туре	Dual	Solo Ir	strument
Primary Aircraft (Up to 150 H.P.)	\$26.50	\$18.50	\$30.00
Transition Aircraft			
(Retractable Gear)	\$32.00	\$25.50	\$35.50
Twin-Engine Aircraft			
Cessna-310	\$60.00	\$53.00	\$60.00
Oral Instruction	\$11.50		
Flight Simulator			
Single Engine GAT	\$14.00		
Multi-Engine GAT	\$37.50		

ACADEMI	C LAB FEE	S	
Course	Fee	Course	Fee
AE 331	\$5.00	ES 401	\$10.00
AE 420	\$10.00		
		399 and	
		499	
AE 421	\$10.00	ET 400	\$20.00
AE 499		HU 010	\$425.00
AS 201	\$10.00		\$30.00
CT 209	\$35.00		\$10.00
CT 309	\$35.00		\$30.00
CT 310	\$35.00	MS 318	\$10.00
CT 320	\$35.00	MS 319	\$10,00
CT 420	\$35.00		\$10.00
CT 499		PS 103	\$10.00
ES 302	\$10.00	PS 105	\$20.00
ES 303	\$10.00	PS 106	\$20.00
ES 307	\$15.00	PS 201	\$20.00
		PS 202	\$20.00
		MS 110	\$10.00
		MS 401	\$10.00
		MS 421	\$10.00
Course Equ	rivalency Ex		\$45.00

Penalties

Students failing to make scheduled payments of tuition and fees within prescribed dates are subject to the following conditions:

Cooperative Education, per trimester \$150 *If Computer Used; Fee To Be Determined.

- a) All unpaid balance is immediately due and payable.
- Failure to make monthly payment: Suspension.
- Payment of trimester charge after published payment date: \$25.00
- d) Reinstatement fee \$100

Students failing to meet scheduled flight activities are subject to the following penalty:

> a) Unexcused absence from a flight activity: \$10.00.

Refunds

In order that proper services may be provided to students, obligations are entered into by the University which continue even if students subsequently withdraw. As a result, full recovery of fees by the student at the time of withdrawal is not possible and an equitable charge must be made to recover the loss of income to the University as a result of withdrawal. Refunds may be made to students in good standing in accordance with the following policy:

 Advance Tuition and Dormitory Deposits by New Students: 100% refundable if University is notified not less than 60 days prior to the date of registration.

b) Advance Payments By Continuing Students: Students who make advance payments of Tuition and Flight to the University for a following course of instruction and who withdraw prior to the first day of instruction will be refunded in full.

- c) Students who terminate a course of instruction and/or a Flight Program within the first twenty-one calendar days commencing either on the first day of class as published, or in the case of flight students on the first day of instruction, are entitled to refund of charges made to their accounts as follows: (for either the first or second session of the summer trimester, the refund period is ten days except for flight courses.)
 - Academic, Maintenance Technology and Combined Students — Fifty percent of Tuition, unused Flight Lab Fees, and Dormitory Charges for that trimester.
 - Flight Technology Students: Fifty percent of unused Flight Lab fees of designated Flight Program terminated.
 - 3) Student Government Association

Student Insurance Fees and Student Service Fee are nonrefundable.

- d) Withdrawal after the grace period outlined above will generally receive no refund.
- e) Provided withdrawal is due to circumstances beyond the student's control, such as extended illness or required Military service, determination will be based on the merits of each individual case. Any requests for refund based on illness of the student must be accompanied by a Doctor's statement, or other appropriate documentation verifying such illness.

f) A student dismissed for reasons of conduct or academic standing in accordance with conditions established under the paragraph heading "Dismissal from the University" outlined in the Catalog, page 117, is not entitled to a refund.

g) Refunds for students enrolled under the certification provisions of the Veterans Administration will be processed in accordance with Embry-Riddle Aeronautical University refund schedules and as applicable under the following conditions:

- The above refund policy is in effect for veterans and nonveterans in the academic programs. The above policy on refunds is also in effect for the nondegree programs for non-veterans.
- 2) Refunds for veterans in the nondegree programs will be in accordance with paragraph E, section 14255 (page 262-R), of VA regulations. The refund of the unused portion of tuition, fees and other charges for veterans or eligible persons who fail to enter

a course or withdraw or discontinue prior to completion will be made for all amounts paid which exceed the pro rata portion of the total charges that the completed portion of the course bears to the total length of the course, less a penalty of 10% of the amount of the used portion will be determined on the ratio of the number of days or hours of instruction completed by the student to the total number of instructional days or hours in the course. (Fixed fees are not refundable.)

- h) Students enrolled in the Maintenance Technology Program are considered to have enrolled for the complete Trimester or portion of Trimester as designated and are obligated for the registration charges assigned. No adjustments in refunds may be allowed for any courses not completed within any Trimester period which is inconsistent with the refund policy as stated herein.
- i) Only those requests for refunds which are not already covered by provisions cited above, except provision (e), will be submitted to the Refund Committee. All such requests must be in writing.
- j) Before any request for refund will be considered by the Refund Committee, the student must have completed proper documentation in the form of a clearance or change of registration.
- k) A request for refund must be submitted within six months from the date the student completes a change in registration form or a clearance form.

Delinquent Accounts

Student tuition and fees are payable

according to the schedule shown herein. In the instance of debts incurred subsequent to registration, accounts are due at the date of billing. A payment is considered delinquent when it is overdue by thirty (30) days and all unpaid balance is immediately due and payable. When a student's account is delinquent, all academic and administrative processing of his records will be suspended. Information on class performance and grades will be withheld. and registration for a new trimester. graduation, or release of transcripts will be denied. A student failing to satisfy his financial obligations will be subject to dismissal.

Monthly billings are sent to campus mail boxes; if the bill should go to another source before payment can be made, it is the student's responsibility to forward.

Any student who has participated in the National Direct Student Loan Program and/or an Embry-Riddle Loan Plan is required to arrange a repayment schedule with the Bursar before separation from the University.

Student Budget Plan:

Recognizing that the costs of higher education place formidable demands upon students to meet tuition lump sum payments at registration, the University provides for a budget payment plan to assist in financial planning. Under this program, the anticipated tuition and fees for two trimesters can be budgeted over nine monthly installments. A fee of \$25 will be charged for this service. Applications and the estimated amount of the tuition to be budgeted will be provided by the Dean of Admissions and Records. Applications for participation should be returned to the University no later than May 15th of each year for the following September.

FINANCIAL AID

Embry-Riddle Aeronautical University makes every effort, within the limitations of its available financial resources, to assure that no qualified student will be denied the opportunity to attend the University because of a lack of adequate funds.

The State of Florida has approved Embry-Riddle for Veteran Educational Benefits. Veterans and disabled veterans planning to enroll in the University should process the required V.A. forms through the Veterans' Affairs Office several months prior to the first day of class. Veterans who do not possess a Certificate of Eligibility by the time of registration must make the necessary financial arrangements in the Financial Aid Office.

Other financial assistance is available in a variety of forms to help meet academic and financial need criteria for eligibility. Scholarships, loans, grants and part-time employment may be used singly or in combination to meet a student's total financial need. Financial assistance is meant to supplement the resources of the student. The primary responsibility for meeting University expenses resides with the student and his family. A student's parents are expected to contribute toward his expenses, insofar as they are able, from income and assets. The student should feel the obligation to provide for his own education through savings, summer work, other resources and, if necessary, part-time campus employment.

Students from low-income families, as reported by the College Scholarship Service, are given priority in the assignment of awards, although each applicant is considered individually on the basis of the family's income and assets, the number of dependents, the number of children in college, obligations against family income

and extraordinary family expenses. The financial need is determined by the resources available to a student in relation to University expenses. The amount of financial aid award reflects the financial situation of the student and his family and represents confidential information which should not be made public by the University or by the recipient.

Students, (except foreign nationals) enrolled in degree-granting curricula are eligible to participate in all of the Federal assistance programs. PLEASE NOTE: It is imperative that students seeking Federal financial aid apply early to the College Scholarship Service (CSS) for analysis and determination of need. This is done on the basis of the Parent's Confidential Statement (PCS) if the student is a dependent for income tax purposes, or the Student Financial Statement (SFS) if he is independent. Appropriate applications are available through local high school counselors or financial aid offices at any college or university. It should also be remembered that it takes the CSS approximately six weeks to process an application: therefore, students should start this process well in advance of the trimester in which they plan to enroll.

Educational Opportunity Grants:

ERAU participates in the federallysupported Educational Opportunity Grant (EOG) Program, in which gift assistance is made available to a limited number of undergraduate students who have exceptional financial need. An EOG stipend can range in value from \$100 to \$1,000 per year, dependent upon congressional appropriations and the recipient's financial circumstances. In addition, the stipend MUST be matched by at least an equal amount of other financial aid. A grant may be renewed from year to year until the recipient completes his undergraduate work, provided he meets federal criteria of continued financial need, remains in good standing in the University and has a satisfactory conduct and citizenship record. The amount of an award may be adjusted as the recipient's financial needs change.

National Direct Student Loan:

The N.D.S.L. is a fund allocated by the Department of Health, Education and Welfare to this University for the purpose of allowing eligible students long-term. low-interest loans with no repayment due to begin until nine months after graduation (or termination) from ERAU. At that time, three percent simple interest begins to accrue. At least ten percent of the loan is due each year, with a minimum monthly repayment of \$15, which can be payable quarterly. A maximum of 10 years can be used for repayment. The University Bursar is responsible for collecting the money, subject to the law and Government auditors. The maximum amount that a student may borrow during an academic year is \$1,000. The undergraduate maximum may not exceed \$5,000. These loans are an obligation of the student; however. we require that a parent agree to such financial aid by countersigning a Promissory Note. There are so many deserving students who would like to participate in this program that the fund allocation is usually inadequate. It is, therefore, necessary to make awards to the students with the greatest need.

College Work-Study Program:

The purpose of the College Work-Study Program is to stimulate and promote the part-time employment of students, particularly those from low-income families, who are in need of earnings from such employment in order to pursue courses of study at eligible institutions. Work-Study Programs operate under an institutional agreement with the U.S. Department of Health, Education and Welfare. This may involve part-time work for the institution itself or for a public or private non-profit organization in the community. A student is eligible for part-time employment under the Work-Study Program only during periods in which he meets all of the following conditions:

- Is a national of the U.S., or is in the United States for other than a temporary purpose and intends to become a permanent citizen of the United States;
- Must be verified by the CSS as qualifying for financial aid;
- Is capable, in the opinion of the institution, of maintaining good academic standing in such course of study while employed under this program;
- 4) Has been accepted for enrollment as a full-time student at the institution or, in the case of a student already enrolled in the institution, is in good standing and in full-time attendance there, either as an undergraduate, graduate or professional student.

Federally Insured Student Loans:

"Eligible lenders" are usually banks, but include credit unions, savings and loan associations, insurance companies, colleges, or agencies acting for a group of lenders. The program is primarily for low or middle income families, but any college student who has been declared "eligible" by the CSS can apply. Interest is 7%, but the Federal Government pays the interest for students when the CSS reports the

student's eligibility. An undergraduate may borrow up to \$2,500 for a calendar year. Repayment of principal and interest begins nine months after the student has concluded his course of study.

General Information About Federal Financial Aid:

The amount of financial assistance a student may receive at Embry-Riddle Aeronautical University depends upon his financial need. Need is determined by an analysis of the "Parents' Confidential Statement" or, "Student's Financial Statement" as in the case of a student who has been independent of his parents twelve months prior to his application for financial assistance. They simply act as an outside, disinterested agency designed to provide a uniform method of analyzing a family's ability to pay for college expenses. Contact your high school counselor for an application and further details on the Federal assistance programs.

High school counselors or our Financial Aid Officer will be able to help the student work out package financial plans. These plans are designed to make it possible for qualified young people to obtain a college education. Students should initiate their applications for financial aid as early as possible.

Florida Student Assistance Grants:

Grants are awarded to qualified students who have exceptional financial need, to enable their attendance at accredited colleges, universities and junior colleges in Florida. To be eligible, a student must be a citizen of the United States and a bonafide resident of Florida for two years before the beginning of the academic year for which application is made. The awarding and amount of Student Assistance Grants is based on financial need. The maximum

amount of a grant for one academic year is \$1,200. No grant will be made for less than \$200.

For further information contact: Financial Aid Office, Embry-Riddle Aeronautical University Daytona Beach, Florida 32015

Flight Technology Students:

Qualified veterans may enroll in a flight program with a minimum down payment of 10% of the total cost of an approved program. Monthly payments may be arranged to conform to the student's flight program.

Students wishing to make other financial arrangements for meeting tuition payments should contact the Financial Aid Officer.

SCHOLARSHIPS

The Embry-Riddle Scholarship Award

This award is sponsored by the University and honors outstanding scholars at the University. It is a full tuition award to the senior who meets the requirements of the scholarship committee. In addition there are monetary awards for academic excellence for rising sophomores and juniors in both colleges.

The Zonta Scholarship

In honor of Amelia Earhart, the Daytona Beach Zonta Club and the Jacksonville Zonta Club, organizations of executive business and professional women, sponsor qualified young women to prepare for careers in aviation. Recipients are chosen yearly between June and September by the Scholarship Committee and the extent of financial aid determined will be applied against tuition expenses. Financial assistance will be awarded on a yearly basis. It will continue until comple-

tion of the student's educational objectives at ERAU, provided high standards of academic and moral conduct are maintained, as determined by the University. Scholarships will be awarded without prejudice to race, religion or color.

The Volusia County Scholarship

This is a scholarship provided by the University for Volusia County residents. Applicants who have been students in the Volusia County for two years prior to matriculation at Embry-Riddle Aeronautical University are eligible for consideration. The applicant must apply by March 1 for the September trimester by submitting:

- 1. Application for admission.
- 2. Application for scholarship.
- Statement from applicant outlining goals and career plans.
- Three letters of recommendation; (a) either the high school principal or the Dean of Students of the Community College; and (b) 2 residents of the applicant's local community.

The value of the scholarship is \$500 per trimester for two academic years (4 trimesters) in any degree curriculum.

The John Stack Memorial Scholarship

The award is \$1,500 for an academic year (2 trimesters) for a junior in the Aeronautical Engineering Program. The Scholarship Committee will determine the recipient based on academic excellence for previous study at Embry-Riddle Aeronautical University.

The Byron Wesche Memorial Scholarship

The Byron Wesche Memorial Scholarship is established for students in the Aeronautical Science degree program; the value of the award varies with the endowment income.

The Rolf Glad Memorial Scholarship

Students in the Flight Orientation Program of Flight Technology, Aeronautical Studies and Aeronautical Science, who are currently enrolled in a flight course, are eligible for this award. The amount varies according to the endowment income.

The Peter Moyer Memorial Scholarship

This scholarship is available to students who are brothers of Delta Chi Fraternity and in flight related academic programs (Aeronautical Science or Aeronautical Studies-Flight Technology). The amount is \$600 per academic year (2 trimesters) beginning January, 1976.

Army and Air Force ROTC Scholarships

Air Force ROTC offers four, three and two-year scholarships to students. Each scholarship pays all tuition, Laboratory Fees and Text Books. Also, each scholarship recipient receives a \$100 tax-free allowance each month.

In order to obtain a four-year scholarship, a student must apply to Air Force ROTC Headquarters, Maxwell Air Force Base, Alabama 36112. The high school student should apply late in his junior year or early (before November 15) during his senior year. If he receives a scholarship, he must attend a university that offers a four-year Air Force ROTC Program.

The three year scholarship is open to freshmen (men and women) who are enrolled in the Air Force ROTC Program at Embry-Riddle Aeronautical University. Sophomores (men and women) enrolled in Air Force ROTC at ERAU are eligible to compete for a two-year scholarship. Students apply for three and two-year scholarships through the AFROTC Program at ERAU.

In December 1971, Congress enacted a bill that made Air Force ROTC scholarships available to junior college transferees who wish to fly. Scholarships are awarded on a competitive basis upon completion of the six week summer camp.

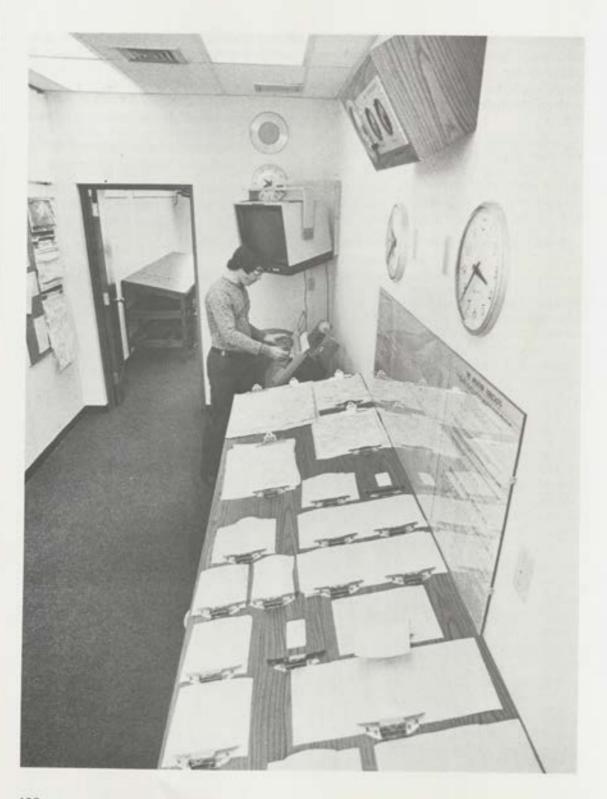
Even if a student does not receive an Air

Force ROTC scholarship, he/she can apply to enter the Air Force Professional Officers Course (POC). The POC is the advanced program in ROTC (junior and senior year). All students in the POC, scholarship and non-scholarship, receive a \$100 tax-free allowance each month. Apply for POC admission at the AFROTC at Embry-Riddle Aeronautical University.

Business and Professional Women's Club of Ormond Beach

Scholarship for qualified female student in a degree program.







FACULTY AND ADMINISTRATION

FACULTY

L. William Motzel, Ph.D., Dean of Academic Affairs

College of Aeronautical Studies

Daniel D. Sain, Ph.D., Dean

D. J. Ritchie, Dr. Psy., Chairman Aeronautical Engineering Division

J. P. Wheeler, Ph.D. Chairman Humanities & Social Sciences Division

E. E. Johnson, Chairman Computer Technology Division E. L. Chrisman, Chairman Aviation Management Division

I. Hirmanpour, Chairman Mathematics & Physical Sciences Division

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^{*}Part-time.

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R. M. Brown, Chairman Aeronautical Science Division W. B. Davis, Chairman
Maintenance Technology Division
Lt. Col. John Maddox, Chairman
AFROTC Division

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Bernal, Rudolph S.

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Bernard, Dana M.

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Berryman, John T.

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Letter designation for qualifications are as follows:

A Airplane

C Commercial Pilot

G Glider

H Helicopter

I Instrument

L Land Plane

P Private Pilot

S Seaplane

AD Aircraft Dispatcher

IA Inspection Authorization

ME Multi-Engine

SE Single-Engine

A&P Airframe and Powerplant Mechanic

AGI Advanced Ground Instructor

ATP Airline Transport Pilot

BGI Basic Ground Instructor

CFI Certified Flight Instructor CTO Control Tower Operator

CTO Control Tower Operator
DME Designated Mechanics

Examiner

IGI Instrument Ground Instructor

SME Single and Multi-Engine

F.C.C. Federal Communications Commission, First, Second or Third Class

Radio Telephone Operator

FE Flight Engineer



FACULTY

College of Continuing Education

Thomas L. Wilson, Dean

Wilbur A. Middleton

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John A. Johnston

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Fort Rucker, Alabama

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land

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Cotton, Calvin H. Jr. Director, Audio-Visual Services

Coughlin, Thomas K.

Admissions Representative

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Duh, Herman V.

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University Physician. M.D., Tulane University

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Registration Supervisor

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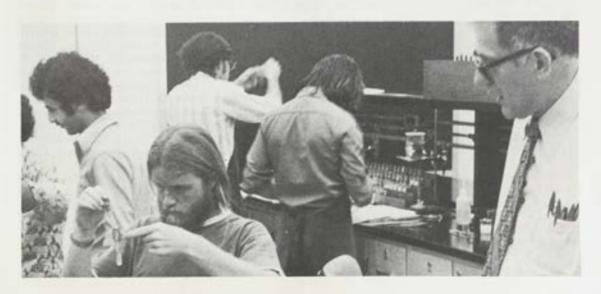
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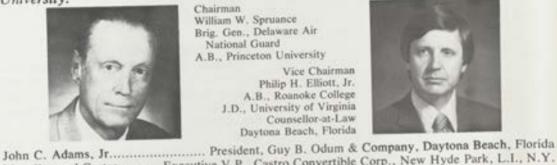
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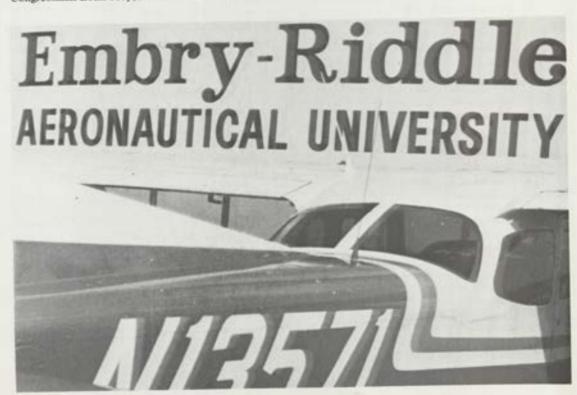
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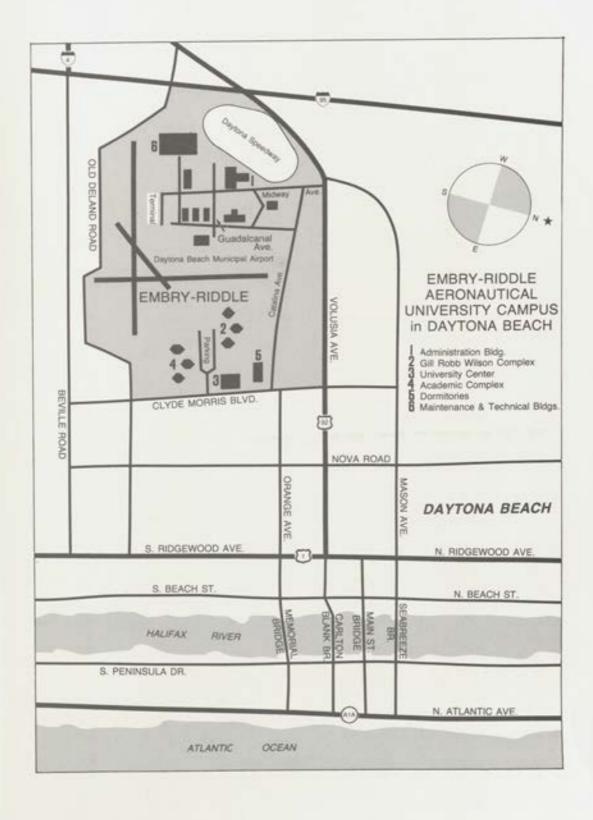
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