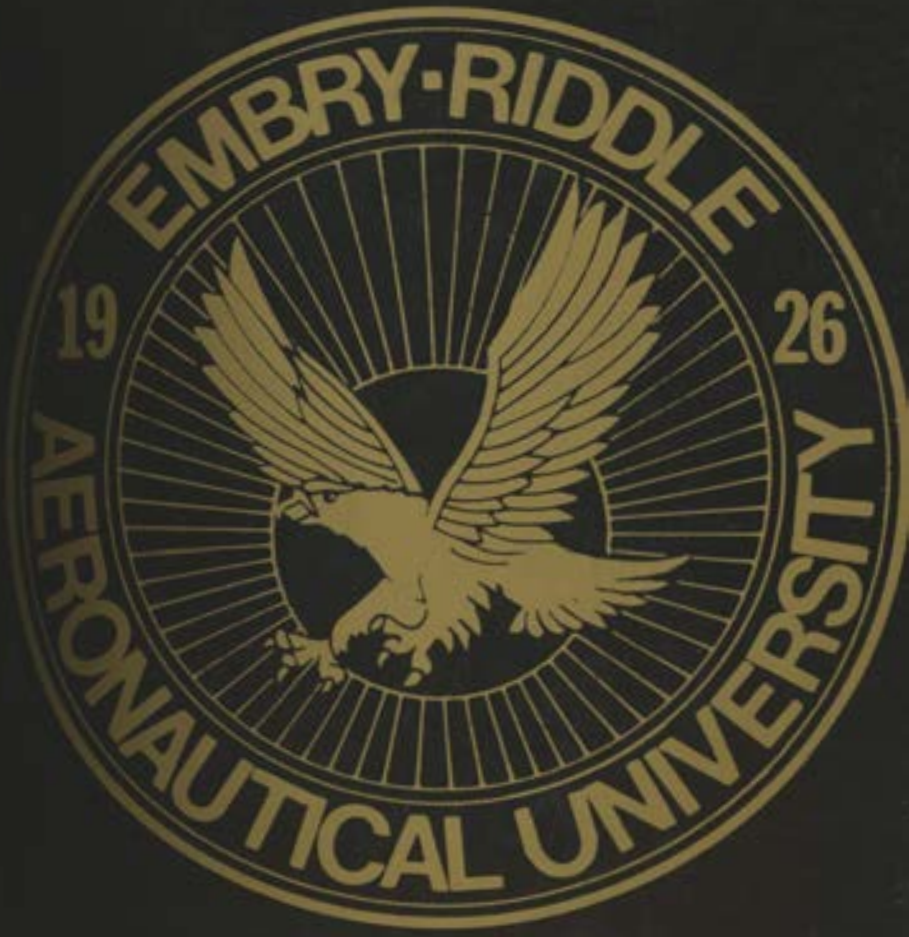
Phil Elliott



EMBRY-RIDDLE AERONAUTICAL UNIVERSITY

78-79 EUROPEAN CATALOG

OFFICIAL EVALUATION AND ADMISSION

APPLICATION CHECKLIST

Everyone:

_____ 1. Application for admission (found at every E-RAU Residence Center and at the E-RAU Office).

_____ 2. Medical exam form (necessary only for attendance at campus within six months of application. Found at every E-RAU Residence Center and at the E-RAU Office).

_____ 3. Photograph of yourself, i.e., passport type.

_____ 4. $25.00 application fee in check or money order form ($10.00 evaluation + $15.00 admission)*

_____ 5. DD Form 295 (listing of military schools, signed by Education and Personnel Officers).

_____ 6. Copy of F.A.A. Certifications.

_____ 7. Official** transcripts from all colleges and high school.

_____ 8. Official transcripts from CLEP, DANTES or USAFI exams (see Education Center).***

_____ 9. Cover letter mentioning the desire to be enrolled under requirements of the current catalog, the particular degree sought, the fact that you are now attending an E-RAU Residence Center in Europe and any particular personal circumstances or future intentions that may affect your application.

_____10. Certificates, diplomas or other documentation showing professional accomplishments, etc.

Military Aviators:

_____11. Copy of Official Flight Record or letter from Flight Operations Officer documenting types of aircraft ratings, instrument ratings, etc.

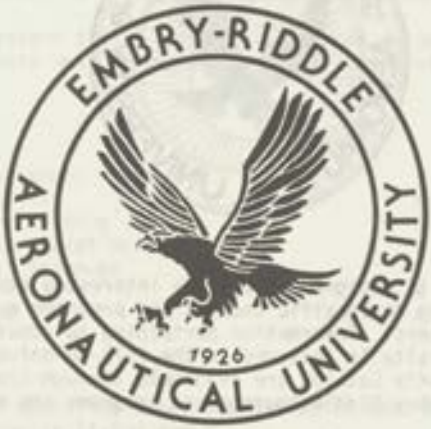
Military Personnel:

_____12. Copy of military personnel file or records showing AFSC's/MOS's/NEC's, duty assignments, schooling, professional qualifications, etc.

*Students wishing to have only an official evaluation should submit the gold copy of "Evaluation/Graduation Update Form", omitting items 1-3 above and submitting a $10.00 fee with appropriate documents of items 5-12. Students receiving only the evaluation may then apply for admission in the same academic year by submitting a copy of the evaluation plus items 1-3 and a $15.00 fee.

**Official transcripts bear a raised seal or signature of college official.

***CLEP, DANTES or USAFI records must be ordered through your local Education Center, but send copies along with your application. Copies must be certified as true and correct by your Education Services Officer.



Serving the World of Aviation through Higher Education for more than 50 years

EUROPEAN RESIDENCE CENTERS

1978-1979 CATALOG

The European Catalog is designed to provide interested students with information pertaining to specific courses and programs available to them through the Centers. Information pertaining to other programs offered by the University is included in the 1978-80 University Catalog. Copies of the University Catalog are available through Education Centers at locations where Embry-Riddle courses and programs are offered.

All Embry-Riddle courses completed at the European Center locations will apply as residence credit and are transferable to University programs offered on campus and at other off-campus locations.

SPECIAL CONTRACT PROGRAMS

Embry-Riddle Aeronautical University makes its resources (faculty, aircraft, simulators, maintenance and test equipment, curricula, and facilities) available to government agencies (foreign and domestic), industry, and associations on a contract basis. The University works with potential clients in reviewing their requirements and establishing special programs to meet their needs. The University acts as "total program manager" in providing complete education/training services to include English as a second language, aviation language, special "cultural counseling" and special in-service training as well as maintenance, flight, and engineering programs specifically developed to meet the needs of a particular group of students.

GENERAL EDUCATION REQUIREMENTS

The University's baccalaureate programs are meant to achieve two goals: to provide students with highly specialized aviation education supported by a broad, general education program; to develop students' understanding of themselves, their culture and background, and enable them to effectively deal with issues in a complex and changing world.

To provide the necessary skills and knowledge, the following general education requirements must be completed by all candidates for the bachelor's degree:

DISCIPLINE		CREDITS
Humanities/Social Sciences		15
Communicative Skills	6	
Technical Report Writing	3	
Other Humanities/Social Sciences	6	
Mathematics/Physical Sciences		12
Mathematics	6	
Physical Science	6	
Economics		3
Computer Technology		3

Each degree program specifies exact courses which must be taken to meet each of the requirements listed above.

FACULTY ADVISOR PROGRAM

Each student is assigned a faculty advisor who will assist the student in determining and carrying out a program to meet the individual's educational objectives.

J. Paul Riddle

TABLE OF CONTENTS

GENERAL INFORMATION

ADMISSION REQUIREMENTS

ACADEMIC REGULATIONS

FINANCIAL INFORMATION

COURSE DESCRIPTIONS

ACADEMIC STANDARDS/PROCEDURES (Excerpts)

GENERAL INFORMATION

The University

In 50 years, Embry-Riddle has grown from a small flight school to Embry-Riddle International School of Aviation, to Embry-Riddle Aeronautical Institute, and finally to the full university it is today.

The University includes three colleges offering educational opportunities which range from certificate programs through associate, baccalaureate, and master's degrees. Embry-Riddle students come from all over the world and Embry-Riddle graduates are working all over the world in the field of aviation.

It all 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 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 curricula 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 86 well placed acres. When completed, the Daytona Beach campus will accommodate 5,000 students. At the present time Embry-Riddle has an enrollment of approximately 5,000 students with 2,500 on the main campus. The students come from all 50 states and more than 60 foreign countries.

Appropriately enough, the world's only accredited, private, non-profit coeducational, totally aviation oriented university's campus is just 10 minutes away from another unique "facility" - The World's Most Famous Beach.

Statement of Policy

Embry-Riddle Aeronautical University adheres to the principle of equal educational and employment opportunity without regard to race, sex, color, creed, or national origin. This policy extends to all programs and activities supported by the University.

Accreditation and Affiliation:

Embry-Riddle Aeronautical University is accredited by the Southern Association of Colleges and Schools. The Bachelor of Science curricula in Aeronautical Engineering and Aircraft Engineering Technology are accredited by the Engineer's Council for Professional Development, the national engineering accrediting agency. Campus programs in Aircraft Maintenance and Flight Technology are approved by the Federal Aviation Administration. The University is approved for Veteran's training.

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

Servicemen's Opportunity College (SOC)

Embry-Riddle Aeronautical University is a member institution of the Four-Year Serviceman's Opportunity College. As a member, Embry-Riddle, recognizing the unique educational problem confronting active duty service men and women in achieving their educational goals, subscribes to the SOC criteria. The University pledges its continuing efforts to make its educational programs available to service men and women in ways consistent with their military assignments.

A Contract for Degree program has been developed to enable service personnel to continue their work toward their degree when they are reassigned to locations at which Embry-Riddle does not offer degree programs. Application forms for entering into a Contract for Degree arrangement may be obtained from Embry-Riddle at installations served by the University or by writing to the E-RAU Europe main office address listed on page 3.

Academic Calendar

The E-RAU European Residence Centers undergraduate calendar for 1978-79 is scheduled as follows:

Term I	28 August - 20 October 1978
Term II	30 October - 22 December 1978
Term III	15 January - 9 March 1979
Term IV	26 March - 18 May 1979
Term V	4 June - 27 July 1979
Summer Seminars	30 July - 18 August 1979
Winter Seminar	8 - 13 January 1979

ADMISSION REQUIREMENTS

General Requirements:

Eligibility requirements for enrollment in courses and programs offered through the European Centers are the same as those for admission to on-campus programs. Students must either be graduates of an accredited secondary school or have completed the General Education Development test with a score at or above the 40th standard score in each subject area and a composite score at or above the 45th standard score.

Special Student Status:

Individuals who meet basic eligibility requirements for admission to the University are permitted to enroll in European Center courses as Special Students without making formal application for admission to the University.

Upon completion of 15 credit hours with Embry-Riddle, Special Students must either submit a formal Application for Admission as a degree candidate or accomplish a Special Student Status statement indicating (s)he understands that catalog and University policies at the time of acceptance of the subsequent Application for Admission will apply.

Application for Admission:

Special Students and other individuals seeking formal admission to a degree program offered by the University must submit an Application for Admission and appropriate supporting credentials to Admissions, HQ USAFE/DPPEF, ATTN: Embry-Riddle, APO New York 09633. Interested individuals should refer to the inside front cover of this catalog for additional guidance, or contact their local representatives.

SAT/ACT 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 nation-wide basis, the student must take the test before arriving on campus. The student should contact his or her high school guidance counselor or E.S.O. 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 E-RAU.

The SAT and ACT 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 designed to improve his or her skills in that area.

Transfer Students:

A candidate for admission who has attended other accredited institutions of higher education must arrange for official transcripts to be sent directly to the Director of Admissions from the Registrar of each institution attended. If applicant has a signed or raised seal official transcript (s)he may submit them with her/his Application for Admission as outlined in the preceding paragraph. If requested, the candidate must present the catalog of the institution from which (s)he transfers, marked to indicate courses taken.

1. The student must be in good academic standing with the last institution attended, or if admitted on probation, the student will be granted transfer credit in accordance with University policy upon removal from probation at E-RAU.

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 E-RAU course equivalency examination.

3. Previous flight experience may be accepted in accordance with the transfer policy stated under the subheading, "Advanced Standing (6)" listed below.

4. Credit is accepted only from institutions that are accredited by an appropriate regional accrediting agency.

5. Transfer credit will be officially recorded when a student is accepted for admission.

6. All acceptable transfer work will be posted on the E-RAU 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.

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 Curriculum Standards/Procedures Manual in effect at the time he or she is accepted for admission.

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:

1. 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. Embry-Riddle follows the standards recommended by the American Council on Education for awarding credit for CLEP,USAFI, and DANTES examinations.

The courses and hours of credit which are recognized by E-RAU for the CLEP general examinations are as follow:

Communications	6 credit hours
Humanities	4 credit hours
Social Science	6 credit hours
Natural Science	6 credit hours
*Mathematics	3 credit hours

*Not applicable to degree programs if below the 50th percentile.

3. Credit for the CLEP subject examinations taken prior to submitting an Application for Admission will be accepted for equivalent E-RAU courses and subsequent to Application for Admission when the courses are not taught by Embry-Riddle at off-campus locations and with prior permission from E-RAU.

4. Training in military service schools will be considered for credit based on the recommendation of the American Council on Education, (refer to the "ACE Guide").

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 admission to Embry-Riddle. The student must provide appropriate documentation to substantiate his Application for Admission. The number of credits awarded for advanced standing will comply with the following University policy:

Credit granted on the basis of F.A.A. certificates (other than Maintenance Technician), F.A.A. 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 E-RAU courses is to be made up in Science/Technology electives. The credit granted for F.A.A. ratings earned through military training and for F.A.A. ratings held by currently qualified airline pilots will be transferred as the equivalent of E-RAU resident courses at full value.

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

a. Satisfactory completion of an F.A.A. 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 F.A.A. approved Commercial Pilot Ground School or satisfactory completion of the F.A.A. Commercial Pilot, or higher, written examination and a minimum of 190 hours of pilot experience: AS 100, AS 102 and AS 103.

An individual who meets the aforementioned qualifications but is rated Rotary-Wing only will be allowed credit for AS 100, AS 102, If he has a Rotorcraft Helicopter Standard Instrument rating, or has successfully completed the F.A.A. instrument written examination, he may also be credited with AS 202.

c. Satisfactory completion of an F.A.A. approved Instrument Ground School or satisfactory completion of the F.A.A. Instrument Pilot written examination and a minimum of 200 hours of pilot experience: AS 100, AS 102, AS 103, AS 201 and AS 202.

d. Satisfactory completion of a U.S. Military undergraduate pilot training program: AS 100, AS 102, AS 103, AS 201 and AS 202. Graduates of USAF and U.S. Navy pilot training programs will also be granted credit for AS 307 and AS 309.

f. Completion of an F.A.A. Certificate for Helicopter Instructor = one (1) credit for FA 499, Special Topics in Flight.

g. Applicants possessing F.A.A. Maintenance Technician Certificates with Airframe and/or Powerplant ratings may be granted recognition for having met applicable AMT course requirements.

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/she be administered a course equivalency examination for specific courses.

Applications to take course equivalency examinations are to be filed with the main office at Wiesbaden. 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 with matriculation 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 Registration and Student 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 degree programs and on-campus certificate programs for enrollment of veterans eligible for U.S. Veterans Administration benefits under the various Public Laws.

Veterans planning to further their education using veteran's benefits with Embry-Riddle should secure their Certificate of Eligibility for training from the Veterans Administration. Admission procedures for veterans are the same as those for other students. Upon enrollment with the University, veterans should process the Certificate of Eligibility through the E-RAU Field Registrar.

Degree Completion Program

Active duty military personnel may wish to apply for degree completion on the home campus in Daytona Beach or at any E-RAU Residence Center under "Bootstrap" or other degree completion programs sponsored by one of the branches of the Armed Services. At the present time active duty Air Force, Army, Navy, and Marine personnel are enrolled under programs sponsored by their respective services at many E-RAU locations.

Interested individuals should submit the special Application for Admission for Degree Completion Program for Active Duty Military Personnel which may be obtained from local representatives or by writing to the Director of Admissions, HQ USAFE/DPPEF, APO 09633.

Applications and supporting documents will be reviewed and applicants will be provided an evaluation indicating the courses for which credit has been granted and identifying the minimum length of time required for degree completion. All applications should be submitted at least ninety days prior to the proposed enrollment date, or earlier if required by the individual's military service.

Official Evaluations

Upon receipt of all official transcripts and documents to support the Application for Admission, students accepted for admission to a degree program will be provided an evaluation indicating all transfer credit and advanced standing accepted. The official evaluation will be prepared and validated by the Dean of Registration and Student Records. For planning purposes, Special Students may obtain an unofficial evaluation from the European Center Area Coordinators at the location where they are enrolled.

The official evaluation of a student will be prepared based on the E-RAU catalog and policies in effect the trimester or term the student matriculates in his program. Once enrolled and accepted for admission, a student remains enrolled in that degree program as long as he or she maintains continuous enrollment as defined below. Students who are accepted for admission and who fail to maintain continuous enrollment must reapply for admission to the University. When a student reapplies for admission, the catalog and policies in effect at the time of readmission will be applicable.

Continuous Enrollment

After acceptance as a degree candidate, students enrolled in European Center courses and programs are expected to maintain continuous enrollment with the University. A student is considered to have maintained continuous enrollment unless he or she:

1. Enrolls for twelve or more hours at another school.

2. Leaves the University for two consecutive years.

3. Has been dismissed from the University.

ACADEMIC REGULATIONS

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

Trimester Hour Credits

All Embry-Riddle credits are recorded in trimester hours. Sufficient hours are scheduled each term for each course offered at European Center locations for award of credit in trimester hours. One trimester hour is equivalent to three quarter hours of credit.

Grading Procedures

Grade		Grade Points
A	Superior	4
B	Above Average	3
C	Average	2
D	Below Average	1
F	Failure	0
Fna	Failure non-attendance	0
W	Withdrawal from course	0
WP	Withdrawal from school passing	0
WF	Withdrawal from school failing	0
X	Credit by examination	0
T	Accepted by transfer	0

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 following the term in which the student received the "I" Incomplete grade. Otherwise, the "I" is automatically changed to an "IP" (I Permanent), a non-punitive grade.

A student may withdraw from a course during the first four weeks 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 E-RAU Field Registrar.

If a student stops attending class without completing the official withdrawal procedure, he or she receives the grade "Fna". If a student officially withdraws from classes, a grade of "W" is assigned for each course. Withdrawals must be completed prior to the end of a course.

Grade Point Average

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

When an "X", "I", or "W" grade is recorded for a course, the hour value does not count as hours attempted.

A course may be repeated with the grade awarded for the last attempt replacing the previous grade. All attempts will appear on the student's record; however, only the last grade will be computed in the grade point average.

Attendance

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

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

Honor Students

Honors are awarded upon graduation based on overall GPA, as follows:

"Cum Laude", GPA 3.50; "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 thirty (30) trimester hours with E-RAU. Graduation honors are only awarded for Baccalaureate degrees. Eligibility for graduation honors will be determined by the cumulative GPA for all courses completed at other educational institutions and at Embry-Riddle. The level of graduation honors awarded a student will in no case be higher than the level earned in Embry-Riddle courses.

Classification of Students

Students enrolled in degree programs are classified as follows:

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

Academic Probation:

Academic probation is imposed when the cumulative grade-point average of the student falls below 2.0.

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.

Dismissal from the University

When a student makes an application for admission to E-RAU, he/she thereby understands and agrees that the University reserves the right to dismiss him/her at any time if his/her conduct, academic standing, or other performance is regarded by the University as undesirable, without the University 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.

Change of Program

To change his/her degree program, a student must apply for such change through the E-RAU Field Registrar.

Graduation Requirements

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

1. Successfully complete all course requirements. (The Dean of Registration and Student Records must certify satisfactory completion of all courses required by the E-RAU Catalog in effect when the student entered the program.) When a student has interrupted his/her studies for two or more consecutive years and is readmitted by the Admissions Office, (s)he must meet the requirements of the catalog in effect for the term (s)he is readmitted. A student may elect to graduate in accordance with a later catalog.

2. Have completed a minimum of 12 hours of course work for an associate degree or 30 hours for a baccalureate degree with Embry-Riddle and must be enrolled in Embry-Riddle courses during the last two terms immediately preceding graduation, except for Contract for Degree students.

   Students who have officially entered into a Contract for Degree arrangement with the University are not required to be enrolled in Embry-Riddle courses during the two terms immediately preceding graduation if they are assigned where Embry-Riddle courses and programs are not offered. Students enrolled in a certificate program must have completed a minimum of 9 hours of course work in the program.

3. Have obtained a cumulative grade point average of 2.0 or better for any undergraduate degree.

4. For a baccalaureate degree must 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 where the course was taken.

5. Have been enrolled in the specific degree or certificate program in which he is graduating for at least one applicable course in the term immediately preceding graduation.

6. Satisfy all financial obligations.

7. Be recommended by the faculty and Dean of the appropriate college.

Diplomas are awarded to graduates of degree programs. Graduation certificates are awarded to students completing other programs. Application for a diploma must be initiated by the student and received (after appropriate recommendations, approvals and fee payment have been made) by the Dean of Registration and Student Records prior to the beginning of the term in which the degree or certificate requirements will be completed.

Graduation ceremonies for eligible students will be held periodically and will be appropriately announced in advance by the Associate Dean, Military Support Programs, Europe.

Candidates for graduation may apply for graduation "In Absentia" through the E-RAU Field Registrar. In such cases, the graduate's diploma/certificate will be mailed to the individual.

Transcripts

Transcripts of students enrolled as Special Students or as degree candidates are initiated during the student's first term of enrollment. Transcripts will include courses accepted in transfer from other colleges and universities, credits granted for advanced standing, and credits granted on the basis of CLEP, USAFI, DANTES or institutional examinations. Appropriate supporting documents must be received before these evaluations can be completed.

The student is provided one University transcript free of charge. Additional transcripts may be obtained upon payment of $1 for each copy.*

Student Responsibility

The student is responsible for complying with all rules, regulations and procedures required for continued attendance at the University. These are contained in this catalog, the E-RAU 1976-78 Catalog, 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.

Right and Privacy of Students

Rights and privacy of students are 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 Office of the Dean of Students or Dean or Registration and Student Records, Embry-Riddle Aeronautical University.

*Note: Transcripts will not be released unless all financial obligations of the student to the University have been taken care of.

FINANCIAL INFORMATION

Payment Procedure

Arrangements for payment in full of all tuition and textbook charges must be made at the time of registration. Active duty military personnel who have obtained approval for tuition assistance prior to the start of the term must pay one-fourth of the tuition charge and the entire charge for textbooks. Individuals utilizing Veteran's benefits must either pay all charges in full at the time of registration or arrange for use of the E-RAU installment payment plan.

Tuition and Fees

Tuition

Current tuition rates may be obtained from your local E-RAU representative or by calling Wiesbaden military 3327.

Fees

Special Student Academic Registration	No charge
Official Evaluation	$10.00
Application for Admission, non-refundable	$15.00
Application for Admission and Official Evaluation, (combined) non-refundable	$25.00
Application for Graduation	$25.00
Course Equivalency Examinations	$45.00
*Pre-Graduation Status Check or Evaluation up-date	$10.00

Refunds

In order to withdraw from a course or courses, the student must execute a formal Application for Withdrawal Form through the E-RAU Field Registrar. Refunds are based on the date the withdrawal is filed with the Field Registrar (Effective Date), or Education Center.

Refunds of tuition will be made in accordance with the following schedule:

a. Seventy-five percent of tuition if, on the date of filing of the withdrawal, the number of class meetings that have elapsed is less than 1/8 of the total class meetings.

*Students admitted may request one free evaluation update per year.

b. Twenty-five percent of tuition if, on the date of filing of the withdrawal, the number of class meetings that have elapsed is 1/8 to 1/4 of the total class meetings.

c. No refund will be made if more than 1/4 of the total class meetings have elapsed at the time of filing of the withdrawal form.

Delinquent Accounts

When a student's account is deliquent, 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 term, graduation or release of transcripts will be denied. A student failing to satisfy his financial obligations will be subject to dismissal.

GRADUATE PROGRAMS

Embry-Riddle Aeronautical University offers master's degree programs in Aviation Management, and in Aeronautical Science. Courses required for these degree programs are offered at several of the University's Residence Centers throughout the World as well as on the main campus.

Applicants for the Master of Aviation Management degree who possess a baccalaureate degree from an accredited college or university may be admitted with full graduate standing, providing their background reflects an understanding of the concepts of economics (macro and micro), accounting, statistics and management.

Applicants for the Master of Aeronautical Science degree may be admitted with full graduate standing, provided they possess the background indicated for the Master of Aviation Management degree and the academic background or training which meets E-RAU's standards associated with the Commercial Pilot certificate and instrument rating.

Applications for either degree program will also be accepted from undergraduate students in their last year of study and from graduates of accredited colleges and universities who do not possess all necessary undergraduate prerequisites at the time of application. These students will be admitted to graduate study in a provisional status.

For additional information concerning the master's degree program, contact the University's Admissions Office for the Graduate Catalog. Students located at the University's Residence Centers should contact the Residence Center Director. Students located in the Miami, Florida area should contact the Graduate Center Director, Embry-Riddle Aeronautical University, 16400 N.W. 32nd Avenue, Miami, Florida 33054 (the center is located on the Biscayne College campus). Students on the E-RAU main campus should contact the Associate Dean of Graduate Studies. Students in Europe should contact the Graduate Program Coordinator, the Area Coordinator or the main office in Wiesbaden, Germany.

CERTIFICATE AND DEGREE PROGRAMS

This section of the catalog describes the certificate and undergraduate degree programs which will be available at locations served by the European Center. Programs offered are as follow:

Certificate Programs:

Aviation Maintenance Technology
Avionics
Radiotelephone Maintenance Technology

Associate Degree Programs:

Aeronautical Studies
Aircraft Maintenance
Aviation Maintenance Technology
Avionics Maintenance Technology
Professional Aeronautics
Aviation Management
General Aeronautics

Baccalaureate Degree Programs:

Aeronautical Studies
Aviation Administration
Aviation Management
Aviation Maintenance Management
Professional Aeronautics

It should be noted that an Area of Concentration is required in the Aeronautical Studies Baccalaureate degree program. An Area of Concentration consists of a specified number of hours completed in one general area of discipline. It is designed to help the student focus his/her optional courses in developing a greater depth of knowledge or skill in a specified area of application. Many areas of concentration which are offered on the home campus are not available at European locations. Areas of concentration which may be completed at European locations include Aviation Maintenance Technology, Radiotelephone Maintenance Technology, Flight Technology, Avionics, Aviation Management and Air Transportation.

A complete listing of degree programs and areas of concentration offered by the University may be found in the E-RAU 1978-80 General Catalog.

CERTIFICATE PROGRAM

AVIATION MAINTENANCE TECHNOLOGY

Introduction

The Aviation Maintenance Technology certificate program offered at the European locations consists of a series of theory and application courses in general aeronautics, airframe, and powerplant science. The curriculum 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 F.A.A. written, oral and practical examinations. Minimum experience requirements to be eligible for an F.A.A. Maintenance Technician Certificate and associated ratings are specified in FAR Part 65 and are as follow:

a. At least 18 months of practical experience with the procedures, practices, materials, tools, machine tools, and equipment generally used in constructing, maintaining, or altering airframes, or powerplants appropriate to the rating sought; or

b. At least 30 months of practical experience concurrently performing the duties appropriate to both the airframe and powerplant ratings.

Individuals who do not meet the minimum experience requirements established by the F.A.A. may enroll in these courses; however, they should clearly understand that completion of the program does not make them eligible to obtain F.A.A. certification. These individuals, as well as individuals who meet the F.A.A. eligibility requirements may use these courses to meet the aviation maintenance technology requirements for the Associate in Science in Aircraft Maintenance degree, the Bachelor of Science in Aviation Maintenance Management, or as an Area of Concentration for the Bachelor of Science in Aeronautical Studies degree. These courses may also be applied to meet general elective requirements of the Associate in Science in Aeronautical Studies degree or simply to provide the student with a general knowledge of aircraft maintenance practices and procedures. Students who meet F.A.A. minimum experience requirements for the F.A.A. A & P certificate may apply these courses toward the Associate in Aviation Maintenance Technology degree.

Admission Requirements

This program is open to students who meet general University admissions requirements.

Transfer Credits

Students who posses aviation maintenance experience or who have completed aviation maintenance courses at other accredited colleges and universities should contact the local E-RAU Center Director for an evaluation of their previous work. Evaluations will be validated by the Dean, Aviation Technology.

Program Requirements

This certificate program consists of seven classroom theory and application courses. Course numbers and titles are as follows (courses are described in the Course Description section of this catalog):

Aviation Maintenance Technology		Credits
AMT 106	General Aeronautics and Applications	4
AMT 126	Airframe Science and Applications	4
AMT 156	Aircraft Reciprocating Powerplant Science and Applications	4
AMT 226	Aircraft Systems Science and Applications	4
AMT 227	Aircraft Electrical Systems Science and Applications	4
AMT 256	Aircraft Turbine Engine Science and Applications	4
AMT 257	Aircraft Accessory and Propeller Science and Applications	4
	TOTAL	28

CERTIFICATE PROGRAM

RADIOTELEPHONE MAINTENANCE TECHNOLOGY

(1st and 2nd Class FCC Rating Program)

Introduction

The Radiotelephone Maintenance Technology certificate program offered at European Center 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 personnel in preparing for the Federal Communications Commission Radiotelephone Operators Second and First Class licensing examinations.

Radiotelephone Maintenance courses may be applied toward the required courses in the Avionics Certificate and the Associate Degree of Avionics Maintenance Technology. Radiotelephone Maintenance courses may also be used to apply toward general electives in both the associate and baccalaureate degree programs in Aeronautical Studies. In addition, the complete program may be selected as an Area of Concentration in the Bachelor of Science in Aeronautical Studies degree.

Admission Requirements

This program is open to students who meet general University admission requirements.

Transfer Credit

Students who have completed radiotelephone maintenance technology courses with other accredited colleges and universities should contact the local E-RAU representative for an evaluation of their previous work. Evaluations will be validated by the Dean, Aviation Technology.

Program Requirements

This certificate program consists of a series of seven theory courses and four laboratory courses. Course numbers and titles of courses to be offered are as follows (courses are described in the Course Description section of the catalog):

Second Class Certificate		Credits
EL 101	Basic Concepts and D C Circuits and Lab	4
EL 102	Fundamentals of A C and A C Circuit Analysis and Lab	4
EL 103	Vacuum Tube and Semiconductor Fundamentals and Lab	4
EL 104	Basic Electronic Circuits and Systems and Lab	4
EL 105	Basic Radiotelephone Equipment Theory and Operation	3
	TOTAL	19

First Class Certificate		Credits
EL 101	Basic Concepts and D C Circuits and Lab	4
EL 102	Fundamentals of A C and A C Circuit Analysis and Lab	4
EL 103	Vacuum Tube and Semiconductor Fundamentals and Lab	4
EL 104	Basic Electronic Circuits and Systems and Lab	4
EL 105	Basic Radiotelephone Equipment Theory and Operation	3
EL 205	Advanced Electronic Circuit and Systems	3
EL 206	Broadcast Equipment Theory and Operation	3
	TOTAL	25

CERTIFICATE PROGRAM

AVIONICS

Introduction

The Avionics certificate program is the Radiotelephone Maintenance Technology program plus four specialized Avionics courses.

Avionics/Radiotelephone maintenance courses may be used to apply toward general electives in both the Associate and Baccalaureate degree programs in Aeronautical Studies. In addition, the complete program may be selected as an Area of Concentration in the Bachelor of Science in Aeronautical Studies degree and the Bachelor of Science in Aviation Maintenance Management degree.

Admission Requirements

This program is open to students who meet general University admission requirements.

Transfer Credit

Students who have completed avionics/radiotelephone maintenance technology courses with other accredited colleges and universities should contact the local E-RAU representative for an evaluation of their previous work. Evaluations will be validated by the Dean, Aviation Technology.

Program Requirements

This certificate program consists of five theory/laboratory courses, six theory courses, and one laboratory course. Course numbers and titles of courses to be offered are as follows (courses are described in the Course Description section of the catalog):

Courses Required		Credits
EL 101	Basic Concepts and D C Circuits and Lab	4
EL 102	Fundamentals of A C and A C Circuit Analysis and Lab	4
EL 103	Vacuum Tube and Semiconductor Fundamentals and Lab	4
EL 104	Basic Electronic Circuits and Systems and Lab	4
EL 105	Basic Radiotelephone Equipment Theory and Operation	3
EL 205	Advanced Electronic Circuits and Systems	3
EL 206	Broadcast Equipment Theory and Operation	3
AV 315	Airborne Communications Systems	3
AV 316	Airborne Navigation Systems	3

Courses Required		Credits
AV 317	Airborne Radar and Flight Control Systems	3
AV 340	Avionics Equipment Troubleshooting and Repair with Lab	
	or	2
EL 310	Advanced Troubleshooting Analysis, Instruments and Techniques	
	TOTAL	36

ASSOCIATE DEGREE

AVIATION MAINTENANCE TECHNOLOGY

Introduction

This program is designed to produce qualified Aircraft Maintenance Technicians. A graduate Aviation Maintenance Technician would be proficient in all maintenance activities associated with the general maintenance, overhaul, repair and modification of aircraft.

The curriculum normally terminates in an Associate degree which 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; also students in this program must be eligible to take the F.A.A. A & P tests (see page 17 for experience requirement references). This program is not open to persons who already possess the F.A.A. A & P certificates. These individuals should consider the Associate in Science in Aircraft Maintenance.

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 two terms 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 Registrations and Student Records for official records purpose. An evaluation form will be provided to the student.

Degree Requirements

Due to varying degrees of skill of students pursuing this degree program, there are several methods for attaining the requisite aviation maintenance technology and related academic qualifications. Students matriculating on the home campus may receive advanced standing and by-pass applicable portions of the AMT curriculum. However, off-campus AMT programs are designed to consider the level of experience prior to entry into those programs.

In Europe the Aviation Maintenance Technology Associate degree is comprised of 28 credit hours in Aviation Maintenance Technology, 12 academic credit hours, and the student must acquire the F.A.A. Airframe and Powerplant (A & P) certificate in order to graduate with this degree. Students should be formally admitted (enrolled) as a degree seeking candidate in this curriculum prior to completing the F.A.A. A & P exams. A minimum of 15 AMT credit hours must be taken with E-RAU in order to qualify for graduation in this degree.

Note:

Either the U.S. Residence Center or main campus Aviation Maintenance Technology courses can also apply toward this degree for the maintenance portion requirement. Details are published in the E-RAU General catalog and addendum.

Course Listings

The course requirements, in addition to the maintenance program listed above, include 36 credit hours in the humanities, sciences, and management. These academic requirements are as follows:

Number	Title	Credit
	Aeronautical Science	
AS 101	History of Aviation	
	or	3
AS 303	Government and Aviation	
	Computer Technology	
CT 209	Introduction to Computers	
	or	3
CT 205	Introduction to Computers in Aviation	
	Humanities/Social Sciences	
HU 120	Communications I	3
HU 121	Communications II	3
SS 220	Introduction to Psychology	3
	Mathematics/Physical Science	
MA 111	College Math for Aviation I	3
MA 112	College Math for Aviation II	3
PS 103	Basic Physics	3
	Management/Economics	
EC 110	Macroeconomics	3
MS 110	Accounting I	3
MS 205	American Business Enterprise	3
MS 305	Management Analysis and Concepts	3
	Aviation Maintenance Technology	
AMT 106	General Aeronautics and Applications	4
AMT 126	Airframe Science and Applications	4
AMT 156	Aircraft Reciprocating Powerplant Science and Application	4
AMT 226	Aircraft Systems Science and Applications	4
AMT 227	Aircraft Electrical Systems Science and Applications	4
AMT 256	Aircraft Turbine Engine Science and Applications	4
AMT 257	Aircraft Accessory and Propeller Science and Applications	4
	Total Credit Hours	64

ASSOCIATE IN SCIENCE DEGREE

AVIONICS MAINTENANCE TECHNOLOGY

Introduction

This program provides the student with both a highly technical electronic-avionics background and a non-technical college academic background. The electronics and avionics courses (totaling 36 trimester credit hours) prepare the student for all FCC Radiotelephone Operators License Examinations (Second and First Class plus Radar Endorsement). They also prepare the student to enter into the rapidly growing field of avionics maintenance, troubleshooting and repair. The non-technical college academic courses (totaling 36 trimester credit hours) increase the student's overall knowledge and greatly enhance his or her career potential.

Employment opportunities for the graduate include technical and supervisory positions in the various electronic and avionic industries such as:

Avionic or Electronic Technician
Avionic or Electronic Shop Supervisor
Communication Specialist
Broadcast Engineer
F.A.A. Avionic Ground Facilities Technician

Admission Requirements

This program is open to students who meet general University admission requirements.

Transfer Credit

Tentative evaluation of credit for Avionics courses from other institutions and Avionics experience will be made as indicated under the Aviation Maintenance Technology certificate program. Final determination will be accomplished by the Maintenance Technology Division Chairman. Other academic credits will be evaluated in accordance with the University policy on transfer credit.

Degree Requirements

Candidates for graduation must have either completed the Avionics certificate program or have validated experience/credentials equivalent to the Avionics concentration requirement of 36 hours.

The degree program also requires 36 credit hours in the humanities, sciences, and management in addition to the 36 Avionics credits.

Course Listing

The course requirements for this degree are as follow:

Number	Title	Credits
	Aeronautical Science	
AS 101	History of Aviation	3
	Humanities/Social Science	
HU 120	Communications I	3
HU 121	Communications II	3
SS 220	Introduction to Psychology	3
	Math/Physical Science	
MA 111	College Math for Aviation I	3
MA 112	College Math for Aviation II	3
PS 103	Basic Physics	3
	Management/Economics	
EC 110	Macroeconomics	3
MS 110	Accounting I	3
MS 205	American Business Enterprise	3
MS 305	Management Analysis and Concepts	3
	Computer Technology	
CT 209	Introduction to Computers	3
	Avionics Maintenance Technology	
EL 101	Basic Concepts and D C Circuits and Lab	4
EL 102	Fundamentals of A C and A C Circuit Analysis and Lab	4
EL 103	Vacuum Tube and Semiconductor Fundamentals and Lab	4
EL 104	Basic Electronic Circuits and Systems and Lab	4
EL 105	Basic Radiotelephone Theory and Operation	3
EL 205	Advanced Electronic Circuits and Systems	3
EL 206	Broadcast Equipment Theory and Operation	3
AV 315	Airborne Communication Systems	3
AV 316	Airborne Navigation Systems	3
AV 317	Airborne Radar and Auto Pilot Systems	3
AV 340	Avionics Equipment Troubleshooting and Repair Lab	
	or	2
EL 310	Advanced Troubleshooting Analysis, Equipment and Techniques	
	Total Credit Hours	72

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 aviation maintenance management graduates for supervisory positions within their field of specialization. The curriculum provides a background which should enable the individual to perform effectively in middle and upper level maintenance management positions.

Admission Requirements

This program is open to students who meet general University admission requirements.

Transfer Credits

Previous college work and experience will be evaluated in the same manner as indicated for the Associate degree in Aviation Maintenance Technology.

Degree Requirements

For the individual completing the Aviation Maintenance Technology courses or certificate program (see page 23), this degree program requires 130 credit hours. For the individual possessing the F.A.A. Maintenance Technician certificate with Airframe and Powerplant ratings, the program requires 102 credit hours. Aviation Maintenance Technology credits are combined with courses in the humanities, sciences, and management to prepare the student for managerial and supervisory positions in aviation maintenance activities.

Alternatively, the Avionics Maintenance Technology Electronics and Avionics courses (36 credit hours) may be used as the maintenance area of concentration in this degree.

Course requirements for this degree are as follow:

Number	Title	Credits
	Aviation Maintenance Technology	
AMT Courses	(See page 67)	28
	or	
	Avionics Maintenance Technology	
Electronics/Avionics (EL, AV) Courses (See pages 74 and 77)		36
	Aeronautical Science	
AS 303	Government and Aviation	3

Number	Title	Credits
	Computer Technology	
CT 209	Introduction to Computers	3
	General Electives	
	Open Undesignated (Upper Level)	9
	Humanities/Social Science	
HU 120	Communications I	3
HU 121	Communications II	3
HU 220	Communications III	3
HU 221	Technical Report Writing	3
HU 250	Introduction to Logic	3
HU Elective (Upper Level)		3
SS 110/120	World or American History	3
SS 210	Introduction to Sociology	3
SS 220	Introduction to Psychology	3
SS Elective		3
	Mathematics/Physical Science	
MA 111	College Math for Aviation I	3
MA 112	College Math for Aviation II	3
MA 211	Statistics with Aviation Applications	3
PS 101	Basic Chemistry	3
PS 103	Basic Physics	3
	Management/Economics	
EC 110	Macroeconomics	3
EC 210	Microeconomics	3
EC 310	Labor Economics	3
MS 110	Accounting I	3
MS 112	Accounting II	3
MS 200	Principles of Management	3
MS 305	Management Analysis and Concepts	3
MS 313	Personnel Management	3
MS 316	Psychology of Management	3
MS 390	Business Law I	3
MS 401	Management Planning and Control	3
MS 420	Industrial Management	3
MS/EC Elective	(Choose two from among MS 322, 331, 405, 410, 415, 421, or EC 420)	6
	Total Credit Hours	130/138

AERONAUTICAL STUDIES DEGREE PROGRAMS

Introduction

Associate and bachelor's degree programs in Aeronautical Studies are offered at European Center locations. These curricula are intended to provide a general aeronautics oriented course of study. The purpose of the curricula is to enable the student to acquire knowledge and skills which will prepare him or her to seek employment in an aeronautical specialization area in either the civilian or government sector. The Bachelor of Science program permits the student a degree of flexibility in the selection of an area of specialization. Specific career options are determined in large part by the Area of Concentration selected by the student from those described on the following pages.

Admission Requirements

Admission requirements are the same as the general requirements for admission to the University except in the case of the student selecting Flight Technology as an Area of Concentration. In this instance the student must also hold and maintain at least an Airman's Class II Medical Certificate.

Transfer Credit

Students who have completed courses with other colleges and universities or who have previous experience which may be applicable for advanced standing should contact the local E-RAU European Representative for a preliminary evaluation of their previous work.

Degree Requirements

The Associate in Science in Aeronautical Studies degree requires 75 credit hours. The program combines 24 hours in the aeronautical sciences with 51 hours in the humanities, social sciences, mathematics, physical sciences,economics, and management.

The Bachelor of Science in Aeronautical Studies requires a minimum total of 132 credit hours. The core program consists of 87 credit hours including courses in the aeronautical sciences, economics, humanities, physical sciences, social sciences, management science, and computer technology. 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 at European locations and are identified on pages 35, 36, and 37.

Flight Technology (Fixed Wing or Rotary Wing)

This area requires flight training leading to qualification as a commercial pilot with instrument rating. Flight courses are not offered by the University in Europe at the present time; however, this Area of Concentration is open at European Center locations to military pilots possessing appropriate F.A.A. pilot certificates. These individuals are granted advanced standing on the basis of their military flight training and experience.

Aviation Maintenance Technology

This area combines maintenance technology training and experience with a degree program to prepare the individual for supervision of maintenance activities. Maintenance technology requirements may be met either by completion of the Aviation Maintenance Technology certificate program or possession of a valid F.A.A. Maintenance Technician (A & P) certificate.

Radiotelephone Maintenance Technology

This area combines courses designed to prepare the individual for FCC 2nd and 1st Class Radiotelephone Licensing examinations with a degree program to prepare the individual for supervision of radiotelephone maintenance activities.

Avionics

The avionics Area of Concentration provides highly specialized technical knowledge in the areas of electronics and avionics (aviation electronics), and provides knowledge in the academic areas of management, humanities, mathematics and science. The technical electronic courses will prepare the student for all FCC radiotelephone Operator License examinations. The specialized avionic courses will prepare the student to enter into the rapidly growing field of avionic equipment maintenance, trouble-shooting, and repair. The nontechnical college academic courses will increase the student's overall knowledge, and enhance his or her career potential.

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.

Air Transportation

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.

ASSOCIATE IN SCIENCE DEGREE

AERONAUTICAL STUDIES

Number	Title	Credits
	Aeronautical Science	
AS 100	Foundations of Aeronautics	4
AS 101	History of Aviation	3
AS 102	Navigation I	3
AS 103	Flight Rules and Regulations	3
AS 201	Meteorology	3
AS 211	Aircraft Engines and Systems	3
AS 303	Government and Aviation	3
AS 307	Flight Physiology	2
	Humanities/Social Science	
HU 120	Communications I	3
HU 121	Communications II	3
HU 220	Communications III	3
HU 221	Technical Report Writing	3
HU 250/340	Introduction to Logic/Philosophy	3
SS 110/120	World or American History	3
SS 220	Introduction to Psychology	3
	Computer Technology	
CT 209	Introduction to Computers	3
	Mathematics/Physical Science	
MA 111	College Math for Aviation I	3
MA 112	College Math for Aviation II	3
PS 101	Basic Chemistry	3
PS 103	Basic Physics	3
	Management Science/Economics	
MS 110	Accounting I	3
EC 110	Macroeconomics	3
EC 210	Microeconomics	3
MS 205	American Business Enterprise	3
MS 305	Management Analysis and Concepts	3
	Total Credit Hours	75

BACHELOR OF SCIENCE DEGREE

AERONAUTICAL STUDIES

Number	Title	Credits
	Aeronautical Science	
AS 100	Foundations of Aeronautics	4
AS 101	History of Aviation	3
AS 102	Navigation I	3
AS 103	Flight Rules and Regulations	3
AS 201	Meteorology	3
*AS 211	Aircraft Engines and Systems	3
AS 303	Government and Aviation	3
AS 307	Flight Physiology	2
AS 405	Aviation Law	3
AS 408/409	Flight/Aviation Safety	3
	Management/Economics	
MS 110	Accounting I	3
MS 205	American Business Enterprise	3
MS 305	Management Analysis and Concepts	3
EC 110	Macroeconomics	3
EC 210	Microeconomics	3
	Computer Technology	
CT 209	Introduction to Computers	3
	Humanities/Social Science	
HU 120	Communications I	3
HU 121	Communications II	3
HU 220	Communications III	3
HU 221	Technical Report Writing	3
HU 250/340	Introduction to Logic or Introduction to Philosophy	3
SS 110/120	World History or American History	3
SS 220	Introduction to Psychology	3
HU/SS	Electives (Upper Level Courses)	6

*For the Flight Technology and Aviation Maintenance Technology Areas of Concentration, this course is replaced as follows:

Flight Technology - AS 203
Aircraft Engines - Reciprocating
Aviation Maintenance Technology - Upper level (300 or 400) elective.

Number	Title	Credits
	Mathematics/Physical Science	
MA 111	College Math for Aviation I	3
MA 112	College Math for Aviation II	3
PS 101	Basic Chemistry	3
PS 103	Basic Physics	3
	Area of Concentration	
	(See separate listing below)	45
	Total Credits Required	132

Area of Concentration: Flight Technology (Fixed or Rotary Wing)

	Aeronautical Science	
AS 202	Navigation II	3
AS 210	Aircraft Systems and Components	3
AS 309	Basic Aerodynamics	3
AS 310	Aircraft Performance	3
AS 311	Aircraft Engines - Turbine	3
**AS 404	Principles of Instruction (to be taken with FA 400)	3
	Flight - Academic	
*FA 102	Primary Flight	2
*FA 103	Basic Flight	2
*FA 203	Intermediate Flight	2
*FA 204	Advanced Flight	2
*FA 305	Advanced Flight II	2
**FA 340/400	Multi-Engine/Flight Instructor	1
	Physical Science	
PS 104	Applied Physics	3
	Electives	
	Undesignated (Upper Level)	5-9
	Open Undesignated	8
	Total Credit Hours	45

*Military trained rotary wing pilots possessing F.A.A. Commercial Rotorcraft-Helicopter certificates with Instrument-Helicopter ratings will be granted ten hours of Rotary Wing flight credit upon presentation of copies of F.A.A. certificates and documentation of military flight training.

**Not required for the rotary-wing option.

Area of Concentration: Aviation Maintenance Technology*

Number	Title	Credits
	Aviation Maintenance Technology	
AMT 106	General Aeronautics and Applications	4
AMT 126	Airframe Science and Applications	4
AMT 156	Aircraft Reciprocating Powerplant Science and Application	4
AMT 226	Aircraft Systems Science and Applications	4
AMT 227	Aircraft Electrical Systems Science and Applications	4
AMT 256	Aircraft Turbine Engine Science and Applications	4
AMT 257	Aircraft Accessory and Propeller Science and Applications	4
	Sub-Total Credit Hours	28

*Either HU 340 or an extra 3 credit hour 300-400 level elective must be taken to meet the upper-level credit requirement under this Area of Concentration.

Electives

**Undesignated (Upper Level)	9
AS/MS (Upper Level)	8
*Total Credit Hours	45

** Includes three upper level credits to replace AS 211, Aircraft Engines and Systems, in the core course listing.

Area of Concentration: Radiotelephone Maintenance Technology

	Radiotelephone Maintenance Technology	
EL 101	Basic Electronic Concepts and D C Circuit Analysis & Lab	4
EL 102	Fundamentals of A C and A C Circuit Analysis and Lab	4
EL 103	Vacuum Tube and Semiconductor Fundamentals and Lab	4
EL 104	Basic Electronic Circuits and Systems and Lab	4
EL 105	Basic Radiotelephone Theory and Operation	3
EL 205	Advanced Electronic Circuits and Systems	3
EL 206	Broadcast Equipment Theory and Operation	3

Electives

Undesignated (Upper Level)	20
Total Credit Hours	45

Area of Concentration: Avionics

	Avionics	
EL 101	Basic Electronics Concepts and D C Circuit Analysis and Lab	4
EL 102	Fundamentals of A C and A C Circuit Analysis and Lab	4
EL 103	Vacuum Tube and Semiconductor Fundamentals and Lab	4
EL 104	Basic Electronic Circuits and Systems and Lab	4
EL 105	Basic Radiotelephone Theory and Operation	3
EL 205	Advanced Electronic Circuits and Systems	3
EL 206	Broadcast Equipment Theory and Operation	3

Number	Title	Credits
AV 315	Airborne Communication Systems	3
AV 316	Airborne Navigation Systems	3
AV 317	Airborne Radar and Flight Control Systems	3
AV 340	Avionics Equipment Troubleshooting and Repair Laboratory	
	or	
EL 310	Advanced Troubleshooting Analysis, Equipment and Techniques	2
	Total Trimester Hours	36
	Electives	
	Undesignated (Upper Level)	9
	Total Credit Hours	45

Area of Concentration: Aviation Management

EC 310	Labor Economics	3
MS 311	Marketing	3
MS 313	Personnel Management	3
MS 318	Business Data Processing	3
MS 401	Management Planning and Control	3
MS 420	Industrial Management	3
MA 211	Statistics w/Aviation Applications	3
	Electives	
	EC/MS Upper Level (300-400) Courses	9
	General Electives (Open)	15
	Total Credit Hours	45

Area of Concentration: Air Transportation Management

EC 310	Labor Economics	3
EC 420	Economics of Air Transportation	3
MA 211	Statistics w/Aviation Applications	3
MS 311	Marketing	3
MS 313	Personnel Management	3
MS 318	Business Data Processing	3
MS 331	Transportation Principles	3
MS 401	Management Planning and Control	3
MS 410	Management of Air Cargo	3
	Electives	
MS Elective	(Choose one from among MS 322, 405, 408, 415, 421)	3
	General Electives (Open)	15
	Total Credit Hours	45

BACHELOR OF SCIENCE DEGREE

AVIATION ADMINISTRATION

Introduction

The objectives of this program are to prepare graduates for a career in the aviation industry in such areas as marketing, sales, public relations, and advertising.

The Bachelor of Science in Aviation Administration is a program specifically designed for those individuals who have obtained either an aviation oriented associate degree or an approved college parallel Associate in Arts or Associate in Science degree.

Admission Requirements

This program is open to those students who already hold an associate degree that is either aviation oriented or from an approved college parallel Associate in Arts or Associate in Science degree program.

Some approved associate degrees which may be applied toward the Bachelor of Science in Aviation Administration are:

Associate in Professional Aeronautics
Associate in General Aeronautics
Associate in Science in Aircraft Maintenance

All University of Maryland associate degrees which meet the general education requirements of the University of Maryland.

Selected Community College of the Air Force associate degree programs listed as follows:

Aircraft Electrical Systems
Aircraft Fuel Systems
Aircraft Pneudraulic Systems
Aircraft Powerplant Maintenance
Environmental and Ejection Systems Maintenance
Production Planning Technology (Aviation Maintenance Technology only)
Metalworking Technology (Aircraft only)
Avionics Communication-Navigation Systems Technology
Avionics Instrument Systems Technology
Avionics Radar Technology
Instrumentation Technology (Aviation only)
Aircraft General Flight Line Maintenance
Flight Engineering
Aerospace Control Systems
Air Traffic Control
Physiological Training Technology

Transfer Credits

Determination of the applicability of the degree held will be made by the evaluation section of the Registrar's Office. Other credits will be transferred in accordance with standard University policies.

Degree Requirements

This program requires a minimum of 67 credit hours in addition to possession of an approved associate degree from an accredited college. If a student has completed the equivalent of one or more of the required courses at the lower division as a part of the associate degree program or subsequent to award of the associate degree, he/she must substitute a course or courses at the upper division level as indicated below (see note). If the student has completed one or more upper division courses which are equivalent to those required in the degree program and these were completed at another accredited four year institution, the courses will be accepted in transfer toward the degree.

Course Listings

The following courses are required to complete this degree:

Number	Title	Credits
	Aeronautical Science (25 Credits)	
AS 100	Foundations of Aeronautics	4
AS 101	History of Aviation	3
AS 104	Careers in Aviation	1
AS 201	Meteorology	3
AS 211	Aircraft Engines and Systems	3
AS 303	Government and Aviation	3
AS 307	Flight Physiology	2
AS 405	Aviation Law	3
AS 409	Aviation Safety	3
	Humanities/Social Science (6 Credits)	
HU 221	Technical Report Writing	3
SS 210	Introduction to Sociology	
	or	
SS 220	Introduction to Psychology	3
	Management Science (24 Credits)	
MS 110	Accounting I	3
MS 200/205	Prin. of Mngmt. or American Business Enterprise	3
MS 305	Management Analysis and Concepts	3
MS 311	Marketing	3
MS 313	Personnel Management	3
MS 316	Psychology of Management	3
MS 405	General Aviation Marketing	3
MS 425	Trends and Current Problems in Air Transportation	3

Number	Title	Credits
	Economics (6 Credits)	
EC 110	Macroeconomics	3
EC 210	Microeconomics	3
	Math/Computer Technology (6 Credits)	
CT 209/205	Intro to Computers or Intro to Computers in Aviation	3
CT 309	FORTRAN Programming	
	or	
CT 310	Business Programming	
	or	
CT 315	RPG Programming	
	or	
MA 211	Statistics with Aviation Applications	3
	Total Credit Hours	67

Note: Students who have completed one or more courses required in this curriculum at a lower level must substitute a course or courses from the following listing:

AS 309	Basic Aerodynamics
AS 310	Aircraft Performance
AS 401	Airport Development and Operations
AS 410	Air Carrier Operations
AS 412	Corporate/Industrial Aviation
EC 420	Economics of Air Transportation
MS 331	Transportation Principles
MS 408	Airport Management
MS 410	Management of Air Cargo
MS 415	Airline Management

It started here. (Left to Right) J. Paul Riddle, Richard R. Blythe, T. Higby Embry, Charles Myers, John Wood and Harry E. Sherwin.

ASSOCIATE DEGREE

GENERAL AERONAUTICS

Introduction

The Associate in General Aeronautics degree program is designed to meet the requirements of the Servicemen's Opportunity College. The program provides a mix of general, liberal arts and aviation related courses to augment the servicemen's military educational experience. Degree completion provides the student with an educational base upon which to build a baccalaureate degree in aviation, as well as entry level knowledge of administrative functions in related industries.

Admission Requirements

Admission to the General Aeronautics degree program is limited to active duty members of the military services. A high school diploma, or equivalent, is required for all applicants. In addition, admission is limited to individuals assigned in specific skill areas recommended for award of credit by the American Council on Education (refer to the "ACE Guide").

Transfer Credit

Students who have completed previous college work may request an evaluation of their transcript through the E-RAU Area Coordinator and the E-RAU Main Office in Wiesbaden.

Advanced Standing

Credit will be granted to enrolled students for the formal training, directed study, and experience in a non-aviation professional area when validated by the American Council on Education.

Degree Requirements

The Associate in General Aeronautics degree program requires 65 credit hours, including the credit hours granted on the basis of professional qualification. Courses to be taken are:

Number	Title	Credits
	Aeronautical Science	
AS 100	Foundations of Aeronautics	4
AS 101	History of Aviation	3
AS	Electives	6
	Computer Technology	
CT 205	Introduction to Computers in Aviation	3
	Economics	
EC	Elective	3

Number	Title	Credits
	Humanities	
HU 120	Communications I	3
HU 121	Communications II	3
HU 221	Technical Report Writing	3
HU	Elective	3
	Management Science	
MS 200	Principles of Management	3
MS 305	Management Analysis and Concepts	3
	Mathematics	
MA 111	College Math for Aviation I	3
	Physical Science	
PS	Elective	3
	Social Science	
SS 210/220	Introduction to Sociology or Introduction to Psychology	3
SS	Elective	3
	General Electives Military Occupational Specialty*	16
	Total Credit Hours	65

*When recommended by the American Council on Education. If total recommended by ACE is less than 16 credit hours, the balance must be taken in aviation oriented courses.

PROFESSIONAL AERONAUTICS DEGREE PROGRAMS

Introduction

Associate and baccalaureate degree programs in Professional Aeronautics are offered at European locations. These programs are designed to fill the educational needs of professionals employed in selected aeronautical skills. They combine the formal training, directed study and professional work experience in an approved 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 the individual's field of professional competence and to prepare the student for graduate studies.

Admission Requirements

Admission to Professional Aeronautics degree programs is limited to individuals employed in skill areas approved for award of technology credit as listed under the associate and baccalaureate programs below. Applicants must also meet the general requirements for admission to the University.

Transfer Credit

Courses completed with other accredited colleges and universities will be evaluated in accordance with the University policy on transfer credit (see page 103).

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. When submitting an Application for Admission, applicants must provide documentation reflecting attainment of the level of qualification required and specific minimum work experience requirements when appropriate.

Degree Requirements

The Associate of Professional Aeronautics degree requires attainment of specialist/technician level of qualification in an occupational specialty approved for award of aeronautical technology credit. A minimum of 65 credit hours is required for the degree. Eighteen of these credit hours are awarded on the basis of possession of an aviation specialty and experience recognized for aeronautical technology credit by the University. The University recognizes certain aviation experience from all the U.S. military services, the F.A.A., and the civilian aviation industry. In addition to attainment of the skill qualification, applicants must either have completed the basic qualification course for the specialty and have worked in the specialty a minimum of 18 months, or if the basic qualification course has not been completed, have worked in the specialty a minimum of 36 months.

The Bachelor of Professional Aeronautics degree requires a total of 129 credit hours including the credit hours granted on the basis of professional qualification in an approved Area of Concentration. The curriculum to be followed by an applicant will depend upon the amount of advanced standing granted for the Area of Concentration in which the student is qualified. Specific curriculum requirements are identified for professional skill areas granted 18, 32, 48 or 64 aeronautical technology credits.

1. General Information

Associate and baccalaureate Professional Aeronautics degree programs are designed to serve the educational needs of skilled professionals employed in designated aeronautical skills. These degree programs provide academic recognition for formal training, directed study, and work experience in approved areas of aeronautical technology.

The credit hours awarded toward the Professional Aeronautics degree are applicable to this degree only and may not be applied toward other degree programs in the absence of prerequisite education or certification required for award of credit in the other programs.

2. Approved Aeronautical Skills

A listing of each Army and Marine Corps Military Occupational Specialty (MOS), Air Force Specialty Code (AFSC), and Navy Enlisted Code (NEC) approved for award of credit toward Professional Aeronautics degrees is included on the attached Professional Aeronautics Credit Matrix (see pages 55 through 61). Civilian aviation skill areas will be considered on an individual basis.

3. Academic Credit Authorizations

a. The following general guidance is provided to assist in determining an individual's qualification for credit toward the Associate in Professional Aeronautics degree.

Areas of Concentration:

AIRCRAFT MAINTENANCE
AIR TRAFFIC CONTROL
AVIATION WEATHER
ELECTRONICS OPERATION/MAINTENANCE
FLIGHT OPERATIONS ADMINISTRATION
FLIGHT SIMULATION OPERATIONS
FLIGHT TECHNOLOGY

For listed specialties, 18 credit hours of aeronautical technology will be granted toward the appropriate Area of Concentration listed above when the individual has attained at least the specialist/technician level of qualification and meets either of the following minimum training and/or work experience requirements in the skill area:

1) Completion of the required or desired formal schooling for the specialty and a minimum of 18 months on-the-job work experience in the specialty.

2) A minimum of 36 months on-the-job work experience in the specialty if the required or desired formal schooling for the specialty has not been completed.

Flight Technology Area of Concentration

Individuals who are rated as U.S. military pilots will be granted 18 credit hours toward the Flight Technology Area of Concentration on the basis of that rating. F.A.A. pilot certificates are not required. In addition to these 18 credits in the Area of Concentration, rated military pilots will be granted the nine open elective hours in the associate degree program on the basis of their rating.

b. The following guidance is provided to assist in determining an individual's qualification for award of credit toward the Bachelor of Professional Aeronautics degree.

Areas of Concentration:

AIRCRAFT MAINTENANCE
AIRCRAFT DISPATCHER
AIR TRAFFIC CONTROL
AIRWAYS FACILITIES
AIR CARRIER PILOT
AVIATION WEATHER
CORPORATE PILOT
ELECTRONICS OPERATION/MAINTENANCE
FLIGHT OPERATIONS ADMINISTRATION
FLIGHT SIMULATION OPERATIONS
AVIATION SAFETY
AIRLINE COMMAND PILOT
NAVIGATION SYSTEMS
FLIGHT TECHNOLOGY

An individual who meets the minimum qualifications listed for award of credit in the associate degree program will also be granted 18 aeronautical technology credits toward the appropriate Area of Concentration listed above.

For military specialties listed on the Professional Aeronautics Credit Matrix (pages 55 through 61), 32 aeronautical technology credits will be granted toward the appropriate Area of Concentration listed above when the individual has attained the supervisory level of qualification and meets one of the following minimum training and/or work experience requirements in the skill area.

1) Completion of one or more formal training schools in the field of specialization totalling 12 or more weeks duration and a minimum of 48 months work experience in the field of specialization.

2) A minimum of 72 months on-the-job work experience in the field of specialization if no formal training school in that field has been completed.

3) If formal training in the specialty totals less that 12 weeks duration, completion of a minimum of 48 months work experience, plus six months work experience for each week under 12 weeks of formal schooling.

It should be noted that Navy Enlisted Codes and Marine Corps Military Occupational Specialties do not necessarily identify the level of professional qualification (i.e. Specialist/Technician or supervisor). Additionally, in some situations in the military services highly qualified technicians are assigned supervisory responsibilities over extended periods of time but, because of the approved grade structure within the unit of assignment, the individual cannot be awarded the supervisory level specialty. In view of this, it is deemed necessary that all supervisory responsibilities of individuals requesting advanced standing toward the Bachelor of Professional Aeronautics degree areas of concentration listed above must be documented. A form to be completed by the applicant's immediate supervisor or commanding officer is provided as an attachment to the Professional Aeronautics Credit Matrix for this purpose. The completed form must be submitted with the applicant's Application for Admission to the University when credit at the supervisory level is sought.

Aviation Safety Area of Concentration

A U.S. military pilot who additionally has completed an approved Flight Safety Officer Course culminating in the Aviation Safety Officer rating, will be granted 64 credit hours toward this Area of Concentration.

Air Traffic Control Technology Area of Concentration

An F.A.A. technician who has attained journeyman-level qualification as a flight service station specialist, en route air traffic controller, terminal air traffic controller, or a military air traffic controller possessing an F.A.A. facility rating will be granted 64 credit hours toward this Area of Concentration. "A military school trained technician who is assigned directly upon completion of the school to an Air Traffic Control School as an instructor, thus precluding F.A.A. certification as a CTO, may be awarded 64 credit hours toward this Area of Concentration following completion of 6 months on-the-job as an Air Traffic Control Instructor."

"A military school trained technician who has been certified by the Chief of Naval Operations/Commandant of the Marine Corps as an Air Traffic Control Specialist may be awarded 64 credit hours toward the Area of Concentration following completion of 6 months on-the-job as an ATCS in the following positions:

Terminal Radar Approach Control (TRACON) Rating
Radar Air Traffic Control Facility (RATCF) Rating
Ground Controlled Approach (GCA) Rating
Flight Coordination Center (FCC) Rating
Carrier Air Traffic Control Center (CATCC) Rating
Radar Final Controller (RFC) Rating

Airways Facilities Technology Area of Concentration

An F.A.A. technician who has attained journeyman-level qualification in the computer, navigational aids, communications, or radar career areas, or a U.S. Navy airways maintenance technician who has attained journeyman-level qualification will be awarded 64 credit hours toward this Area of Concentration.

Air Carrier Pilot Area of Concentration

An individual who is currently employed by a major airline (major airline is defined as an airline operating under FAR Part 121) as pilot, first officer, or second officer, and has a minimum of 1,000 hours as pilot-in-command or second-in-command in current air carrier aircraft will be granted 48 credit hours toward this Area of Concentration.

Corporate Pilot Area of Concentration

An individual who is currently employed as a pilot in corporate aviation, possesses a type-rating, and has a minimum of 1,000 hours as pilot-in-command or second-in-command in pressurized, turbine powered aircraft will be awarded 48 credit hours toward this Area of Concentration.

Aviation Maintenance Technology (Military Aviation Maintenance Personnel) Area of Concentration

An individual who possesses an F.A.A. Airframe and Powerplant Certificate and has a minimum of 5 years work experience in military aviation maintenance will be awarded 48 credit hours toward this Area of Concentration.

Aviation Maintenance Technology (Civilian Aviation Maintenance Personnel) Area of Concentration

An individual who possesses an F.A.A. Airframe and Powerplant Certificate and has a minimum of 5 years work experience in aviation maintenance subsequent to obtaining F.A.A. certification, and whose experience is on aircraft operated by a major airline in accordance with FAR Part 121 or aircraft which are turbine powered, pressurized, and operated by a corporation, will be awarded 48 credit hours toward this Area of Concentration.

Aircraft Dispatcher Area of Concentration

An individual who possesses an F.A.A. Aircraft Dispatcher Certificate and who has been employed a minimum of 3 years as an Aircraft/Flight Dispatcher will be awarded 48 credit hours toward this Area of Concentration.

Airline Command Pilot Area of Concentration

An airline pilot who possesses the following qualifications will be awarded 64 credit hours toward this Area of Concentration:

1. Is currently employed as a pilot by a major air carrier and is qualified to fly as captain;

2. Holds an F.A.A. Airline Transport Pilot Certificate with at least one type-rating in a current air carrier aircraft, and

3. Has a minimum of 5,000 flight hours as pilot-in-command or second-in-command in aircraft with a minimum certificated gross take-off weight of more than 70,000 pounds.

Navigation Systems Technology Area of Concentration

An individual with 48 months experience (including schooling) in one of the specializations shown below will receive credit as indicated toward this Area of Concentration on the basis of the rating. F.A.A. certificates are not required.

1) Navigator

32 Credit Hours

Required: Completion of USAF Course Number 153132 (Version 2) and 38 weeks with USAF Navigator rating (AFSC 1535).

2) Electronic Warfare Officer

48 Credit Hours

Required: Completion of Basic Navigator course (38 weeks) plus completion of USAF Course Number 157102 (Version 2), Course Number 157104 (34-40 weeks) plus USAF Electronic Warfare Officer rating (AFSC 1575).

3) Radar Bombardier

48 Credit Hours

Required: Completion of Basic Navigator course (38 weeks) plus completion of USAF Course Number 152106 B or 152106 D (14-28 weeks) leading to USAF rating, Navigator-Bombardier, (AFSC 1525).

Flight Technology Area of Concentration

An individual with a minimum of 48 months work experience as a U.S. military pilot will be granted 48 credit hours toward this Area of Concentration on the basis of that rating. F.A.A. pilot certificates are not required. "The military aviator who has not completed 48 months work experience in the specialty will be granted 42 credit hours toward this Area of Concentration if he additionally possesses F.A.A. Commercial/Instrument pilot certification (the six additional academic credit hours required in such cases will consist of upper division work in either Aeronautical Science or Management Science courses)."

Aircraft Maintenance Technology

32 Credit Hours

Individuals who have attained supervisory level of skill qualification in an approved aircraft maintenance specialty.

Aviation Weather Technology

32 Credit Hours

Individuals who have attained supervisory level of skill qualification in an approved aviation weather specialty.

Electronic Operations/Maintenance Technology

32 Credit Hours

Individuals who have attained supervisory level of skill qualification in an approved aviation electronics specialty.

Flight Operations Administration Technology

32 Credit Hours

Individuals who have attained supervisory level of skill qualification in an approved flight operations administration specialty.

Flight Simulation Operations Technology

32 Credit Hours

Individuals who have attained supervisory level of skill qualification in an approved flight simulation specialty.

Documentation of Qualifications

Documentation to validate an individual's eligibility for award of advanced standing credit on the basis of professional training and experience must be submitted with the individual's Application for Admission to the University. The following documentation is required:

a. Enlisted Military Personnel:

1) Completed DD Form 295, "Application for the Evaluation of Educational Experiences During Military Service".

2) Copy of the applicant's military personnel record as it pertains to award of the AFSC or MOS or NEC and to on-the-job experience in specialty, or a certificate signed by the applicant's Commanding Officer or Personnel Officer indicating the AFSC or MOS or NEC of the applicant in the skill area concerned.

3) Individuals seeking credit on the basis of supervisory responsibilities toward the Bachelor of Professional Aeronautics degree must submit a "Request for Award of Credit for the Bachelor of Professional Aeronautics" completed by his/her immediate supervisor or commanding officer (see attachment to credit matrix).

b. Military Pilots/Aviators/Navigators:

1) Copy of the applicant's military flight record.

2) Completed DD Form 295, "Application for the Evaluation of Educational Experiences During Military Service".

3) For U.S. military pilots with less than 48 months work experience in the specialty who are seeking the bachelor's degree, copy of F.A.A. Commercial/Instrument pilot certificate.

c. F.A.A. Air Traffic Control and Airways Facilities Personnel:

Certification by their facility chief that they have attained journeyman-level qualification in their skill.

d. Airline Command Pilots:

1) Copy of all current F.A.A. pilot certificates.

2) Questionnaire completed by employer indicating pilot experience and qualification (VA-C/E-10).

e. Military Air Traffic Control Personnel Possessing an F.A.A. Facility Rating Certificate:

1) Copy of F.A.A. certificate indicating possession of the facility rating.

2) Completed DD Form 295, "Application for the Evaluation of Educational Experiences During Military Service".

3) Copy of the applicant's military personnel record as it pertains to award of the AFSC or MOS or NEC and to on-the-job experience in the approved specialty, or a certificate signed by the applicant's commanding officer or personnel officer indicating the AFSC or MOS or NEC of the applicant and the number of months of work experience of the applicant in the skill area concerned.

f. Military Pilots Who Are Aviation Safety Officer School Graduates:

1) Copy of the applicant's military flight record.

2) Completed DD Form 295, "Application for the Evaluation of Educational Experiences During Military Service".

3) Copy of the transcript or certificate of graduation verifying completion of an approved Aviation Safety Officer Course.

g. Aircraft Dispatchers:

1) Copy of F.A.A. Aircraft Dispatcher Certificate.

2) Letter signed by employer documenting period of employment as an Aircraft/Flight Dispatcher.

h. Civilian Aviation Maintenance Personnel:

1) Copy of F.A.A. Maintenance Technician Certificate.

2) Letter signed by employer documenting experience subsequent to obtaining F.A.A. certification on aircraft approved for award of credit.

i. Military Aviation Maintenance Personnel Who Possesses an F.A.A. Maintenance Technician Certificate:

1) Copy of F.A.A. Maintenance Technician Certificate.

2) Copy of applicant's military personnel record documenting military aviation maintenance experience or a certificate signed by applicant's commanding officer or personnel officer documenting this experience.

j. United Airlines Radio and Electronics Technicians:

1) Copy of FCC licenses.

2) United Airlines documentation that applicant possesses other required qualifications.

k. Air Traffic Control School Instructors:

1) Letter from the school director that the student has completed the ATC school, is fully qualified to act as an Air Traffic Controller, and has been a formal ATC instructor at the school for a minimum of 6 months.

1. United States Navy and United States Marine Corps Air Traffic Control Specialists:

   1) Copy of F.A.A. Form 7220-1, Air Traffic Control Specialist, with appropriate rating.

The University continuously conducts evaluations of skill areas other than those listed above for the associate and baccalaureate degree programs. As these formal evaluations are completed, the professional skill areas and amount of credit granted for each are announced through directors at off-campus locations served by the University.

BACK ROW: L to R THEODORE S. MICHELINI, MICHAEL J. CASATELLI, PHILLIP L. KULP, JAN TRUESDALE, DR. PAUL THOMPSON, TRUDY A. SCHRANDT, PRESIDENT, JACH HUNT, CHRISTINE J. C. KNIGHT, FRANK VANDERWERT. FRONT ROW: JACK BEETZ, JAMES BOCOOK, ROBERT A. COLEMAN, PAUL F. TAYLOR, MASAHARU (mike) UCHIYAMA, DOUGLAS BERCHEM

Curriculum Requirements

ASSOCIATE IN PROFESSIONAL AERONAUTICS

Number	Title	Credits
	Aeronautical Technology	18
	Communication Skills	6

English Composition and Rhetoric, Composition and Literature, Speech, and Creative Writing courses are acceptable. At least one course must be in English Composition.

	Humanities/Social Sciences	3

Sociology, Psychology, History, Philosophy, Political Science, Music, Art, and Literature courses are acceptable.

	Physical and Life Sciences	3

Physical Science, Chemistry, Physics, Earth Science, Astronomy, Geology, Biology, Zoology, and Physiology courses are acceptable.

AS 101	History of Aviation	3
AS 303	Government and Aviation	3
HU 221	Technical Report Writing	3
EC 110/210	Macroeconomics or Microeconomics	3
MS 200	Principles of Management	3
MS 305	Management Analysis and Concepts	3
CT 205/209	Introduction to Computer Applications in Aviation or Introduction to Computers	3
MA 111	College Math for Aviation I	3

Electives

General Electives (Any discipline)	9
Specified Electives (See listing below)	2
Total Credit Hours	65

BACHELOR OF PROFESSIONAL AERONAUTICS

Number	Title	Credits			
	Aeronautical Technology (Lower Level)	18	22	33	44
	Aeronautical Technology (Upper Level)	0	10	15	20
	Communication Skills	9	9	6	6
	English Composition and Rhetoric, Composition and Literature, Speech, and Creative Writing courses are acceptable. At least one course must be in English Composition.				
Number	Title	Credits			
	Humanities/Social Sciences	9	9	6	6
	Sociology, Psychology, History, Philosophy, Political Science, Music, Art, and Literature courses are acceptable. A maximum of six credit hours may be in any one of these disciplines.				
	Physical and Life Sciences	6	6	6	6
	Physical Science, Chemistry, Physics, Earth Science, Astronomy, Geology, Biology, Zoology, and Physiology courses are acceptable.				
AS 101	History of Aviation	3	3	3	3
AS 303	Government and Aviation	3	3	3	3
AS 405	Aviation Law	3	3	3	3
AS 409	Aviation Safety	3	3	0	0
HU 221	Technical Report Writing	3	3	3	3
HU/SS	Electives (Upper Division)	6	3	3	0
EC 110	Macroeconomics	3	3	3	3
EC 210	Microeconomics	3	3	3	3
MS 110	Accounting I	3	3	3	3
MS 200	Principles of Management	3	3	3	3
MS 305	Management Analysis and Concepts	3	3	3	3
CT 205/209	Introduction to Computer Applications in Aviation or Introduction to Computers	3	3	3	3
MA 111	College Math for Aviation I	3	3	3	3
MA 112/211	College Math for Aviation II or Statistics with Aviation Applications	3	3	3	3
	General Electives (Any discipline)	15	12	0	0
	Specified Electives (See listing below)	27	19	15	11
	Total Credit Hours	129	129	129	129

Specified electives in both the Associate and Bachelor of Professional Aeronautics degree programs must be selected from courses in the following list:

AS 307	Flight Physiology	MS 322	Aviation Insurance
AS 309	Basic Aerodynamics	MS 331	Transportation Principles
AS 310	Aircraft Performance	MS 405	General Aviation Marketing
AS 401	Airport Development & Opns.	MS 408	Airport Management
AS 409	Aviation Safety	MS 410	Mgmt. of Air Cargo
AS 410	Air Carrier Operations	MS 415	Airline Management
AS 412	Corporate/Industrial Aviation	MS 425	Trends & Current Problems in Air Transportation

SF 303 Introduction to Aircraft Structures
SF 308 Subsonic Aerodynamics
SF 330 Aircraft Accident Investigation

NOTE:

Award of credit for the Area of Concentration in the Professional Aeronautics degree: All experience and training related to the chosen Area of Concentration shall be included in the total amount of credit given for that Area of Concentration listed in the catalog. Any experience and training in another Area of Concentration may be evaluated on a course by course basis toward open electives. The flight engineer's rating is considered related to both Flight Technology and Maintenance Technology. In the Flight Technology Area of Concentration one cannot take and receive credit for those courses for which one would have been awarded credit in the Aeronautical Studies degree program on a course by course evaluation.

ATC FACILITY OF THE YEAR AWARD PRESENTED BY LT. GEN. ALLEN M. BURDETT Coleman Tower Commander Betts (right) and SFC Judge (center), both E-RAU graduates, accept AAAA award.

Qualifying AFSC/MOS/NEC List for Clearance into the Professional Aeronautic Degrees

Area of Concentration	Speciality	Associate Degree: 6(+) Wks Sch and 18 mo OJT	Associate Degree: Less Than 6 Wks Sch 36 mo OJT	Baccalaureate Degree (1): Less Than 6 Wks Sch 36 mo OJT	Baccalaureate Degree (1): 12(+) Wks Sch(2) and 48 mo OJT	Baccalaureate Degree (1): 12(-) Wks Sch(3) and 48 mo OJT	Baccalaureate Degree (1): Less Than 6 Wks Sch 72 mo OJT
Aircraft Maintenance (4)(11)	Army (5)						
	45 J, M-20	18	18	18	18	18	18
	45 J, M-30, 40	18	18	18	32	32	32
	67 B,C,F,G H,M,N,P R,U,V,W X,Y-20	18	18	18	18	18	18
	67 B,C,F,G H,M,N,P R,U,V,W X,Y-30, 40	18	18	18	32	32	32
	67Z50	18	18	18	32	32	32
	68 B,D,E,F G,H-20	18	18	18	18	18	18
	68 B,D,E,F G,H-30, 40	18	18	18	32	32	32
	Marine Corps (6)						
	6012-18	18	18	18	32	32	32
	6012-19	18	18	18	18	18	18
	6022-28	18	18	18	18	18	18
	6031-32	18	18	18	18	18	18
	6034	18	18	18	18	18	18
	6036	18	18	18	18	18	18
	6038	18	18	18	18	18	18
	6042-43	18	18	18	18	18	18
	6044	18	18	18	32	32	32
	6052-55	18	18	18	18	18	18
	6059	18	18	18	32	32	32
	6062	18	18	18	18	18	18
	6064	18	18	18	18	18	18
	6067	18	18	18	32	32	32
	6072	18	18	18	18	18	18
	6076-79	18	18	18	18	18	18
	6082-83	18	18	18	18	18	18
	6112-14	18	18	18	18	18	18

Area of Concentration	Speciality	Associate Degree 18 mo OJT	Associate Degree 36 mo OJT	36 mo OJT	Baccalaureate Degree 48 mo OJT	Baccalaureate Degree 48 mo OJT	72 mo OJT
Aircraft Maintenance (cont.)	6119	18	18	18	32	32	32
	6122-25	18	18	18	18	18	18
	6132	18	18	18	18	18	18
	6521	18	18	18	18	18	18
	6531	18	18	18	18	18	18
	6533	18	18	18	32	32	32
	6541	18	18	18	18	18	18
	7011	18	18	18	18	18	18
	Air Force						
	42152,52	18	18	18	18	18	18
	42171,72,93	18	18	18	32	32	32
	42250,51,52	18	18	18	18	18	18
	42270,72,91	18	18	18	32	32	32
	42350	18	18	18	18	18	18
	42370,90	18	18	18	32	32	32
	42450,51	18	18	18	18	18	18
	42470,71,91	18	18	18	32	32	32
	43150,51	18	18	18	18	18	18
	43170,71,91	18	18	18	32	32	32
	43250,51	18	18	18	18	18	18
	43270,71	18	18	18	32	32	32
	43350	18	18	18	18	18	18
	43370	18	18	18	32	32	32
	43590	18	18	18	32	32	32
	53450	18	18	18	18	18	18
	53470	18	18	18	32	32	32
	Navy						
	AB-7001-7099	18	18	18	18	18	18
	AB-7001-7099 (supvr)	18	18	18	32	32	32
	AD-6401-6499	18	18	18	18	18	18
	AD-6401-6499 (supvr)	18	18	18	32	32	32
	AE-7101-7199	18	18	18	18	18	18
	AE-7101-7199 (supvr)	18	18	18	32	32	32
	AK-3001-3099	18	18	18	18	18	18
	AK-3001-3099 (supvr)	18	18	18	32	32	32
	AO-6301-6399	18	18	18	18	18	18
	AO-6301-6399 (supvr)	18	18	18	32	32	32
		18	18	18	18	18	18

Area of Concentration	Speciality	Associate Degree		Baccalaureate Degree			
		18 mo OJT	36 mo OJT	36 mo OJT	48 mo OJT	48 mo OJT	72 mo OJT
Aircraft Maintenance (cont.)	Navy						
	AS-7601-7699	18	18	18	18	18	18
	AS-7601-7699 (supvr)	18	18	18	32	32	32
	AT-6601-6699	18	18	18	18	18	18
	AT-6601-6699 (supvr)	18	18	18	32	32	32
	AZ-6301-6399	18	18	18	18	18	18
	AZ-6301-6399 (supvr)	18	18	18	32	32	32
	PR-7301-7399	18	18	18	18	18	18
	PR-7301-7399 (supvr)	18	18	18	32	32	32
Air Traffic Control (7)	Army						
	93 J,K-20	18	18	18	18	18	18
	93 J,K-30, 40	18	18	18	64	64	64
	93 L-50	18	18	18	64	64	64
	Marine Corps						
	6712	18	18	18	64	64	64
	6722	18	18	18	64	64	64
	6724	18	18	18	64	64	64
	6758-59	18	18	18	64	64	64
	Air Force						
	27250	18	18	18	18	18	18
	27270,90	18	18	18	64	64	64
	Navy						
	AC-6901-6999	18	18	18	18	18	18
	AC-6901-6999 (supvr)	18	18	18	64	64	64
Aviation Safety	Rated Military Pilot/Aviator	NA	NA	NA	64	NA	NA
Aviation Weather	Army						
	93 F-20	18	18	18	18	18	18
	93 F-30, 40	18	18	18	32	32	32
	93 E-20	18	18	18	18	18	18
	93 E-30, 40, 50	18	18	18	32	32	32
	Marine Corps						
	0847	18	18	18	18	18	18
	6821	18	18	18	18	18	18
	6831	18	18	18	18	18	18
	6842	18	18	18	18	18	18

Area of Concentration	Speciality	Associate Degree 18 mo OJT	Associate Degree 36 mo OJT	36 mo OJT	Baccalaureate Degree 48 mo OJT	Baccalaureate Degree 48 mo OJT	72 mo OJT
Aviation Weather (cont.)	Air Force						
	25251	18	18	18	18	18	18
	25271,91	18	18	18	32	32	32
	25370,90	18	18	18	32	32	32
	Navy						
	AG-7401-7499	18	18	18	18	18	18
	AG-7401-7499 (supvr)	18	18	18	32	32	32
Electronic Operations/ Maintenance (9)	Army						
	17 L-20	18	18	18	18	18	18
	17 L-30, 40	18	18	18	32	32	32
	26 D, M-20	18	18	18	18	18	18
	26 D, M-40	18	18	18	32	32	32
	35 B,E,H,K,L M,N,R-20	18	18	18	18	18	18
	35 B, E-30	18	18	18	18	18	18
	35 B,E,H,P-40	18	18	18	32	32	32
	35 H,P-50	18	18	18	32	32	32
	Marine Corps						
	2851	18	18	18	18	18	18
	2853	18	18	18	18	18	18
	2866	18	18	18	18	18	18
	2871-72	18	18	18	18	18	18
	5941-43	18	18	18	18	18	18
	5945	18	18	18	18	18	18
	5949	18	18	18	18	18	18
	5952-53	18	18	18	18	18	18
	5959	18	18	18	18	18	18
	5991	18	18	18	32	32	32
	5993-94	18	18	18	32	32	32
	5997	18	18	18	32	32	32
	6612-20	18	18	18	18	18	18
	6622-29	18	18	18	18	18	18
	6632-40	18	18	18	18	18	18
	6642-46	18	18	18	18	18	18
	6652-59	18	18	18	18	18	18
	6663-66	18	18	18	18	18	18
	6672-75	18	18	18	18	18	18
	6679	18	18	18	32	32	32

Area of Concentration	Speciality	Associate Degree 18 mo OJT	Associate Degree 36 mo OJT	36 mo OJT	Baccalaureate Degree 48 mo OJT	Baccalaureate Degree 48 mo OJT	72 mo OJT
Electronic Operations/ Maintenance (cont.)	Marine Corps						
	6689	18	18	18	32	32	32
	6691	18	18	18	32	32	32
	6693	18	18	18	32	32	32
	6782	18	18	18	18	18	18
	6786	18	18	18	18	18	18
	6788	18	18	18	18	18	18
	Air Force						
	27650	18	18	18	18	18	18
	27670,91	18	18	18	32	32	32
	30251	18	18	18	18	18	18
	30271	18	18	18	32	32	32
	30351,52,53	18	18	18	18	18	18
	30371,72,73,93	18	18	18	32	32	32
	30451	18	18	18	18	18	18
	30471	18	18	18	32	32	32
	32150	18	18	18	18	18	18
	32170	18	18	18	32	32	32
	32750,51	18	18	18	18	18	18
	32270,71	18	18	18	32	32	32
	32350	18	18	18	18	18	18
	32370,90	18	18	18	32	32	32
	32550,51	18	18	18	18	18	18
	32570,71,91	18	18	18	32	32	32
	32650,51,52	18	18	18	18	18	18
	32670,71,72,91	18	18	18	32	32	32
	32750	18	18	18	18	18	18
	32770,90	18	18	18	32	32	32
	32850,51,52,53,54	18	18	18	18	18	18
	32870,71,72,73,74,94	18	18	18	32	32	32
	32950	18	18	18	18	18	18
	32970,90	18	18	18	32	32	32
	34251	18	18	18	18	18	18
	34271	18	18	18	32	32	32
	34450	18	18	18	18	18	18
	34470	18	18	18	32	32	32
	40451	18	18	18	18	18	18
	40471	18	18	18	32	32	32

Area of Concentration	Speciality	Associate Degree		Baccalaureate Degree			
		18 mo OJT	36 mo OJT	36 mo OJT	48 mo OJT	48 mo OJT	72 mo OJT
Electronic Operations/ Maintenance (cont.)	Navy						
	AW-7301-7399	18	18	18	18	18	18
	AW-7301-7399 (supvr)	18	18	18	32	32	32
	AX-6501-6599	18	18	18	18	18	18
	AX-6501-6599 (supvr)	18	18	18	32	32	32
Flight Operations Administration	Army						
	71 P-20	18	18	18	18	18	18
	71 P-30, 40	18	18	18	32	32	32
	71 P-50	18	18	18	32	32	32
	Marine Corps						
	6755-57	18	18	18	18	18	18
	7041	18	18	18	18	18	18
	Air Force						
	27150	18	18	18	18	18	18
	27170	18	18	18	32	32	32
Flight Simulation Operations	Army						
	93 D-20	18	18	18	18	18	18
	93 D-30, 40	18	18	18	32	32	32
	Air Force						
	34151	18	18	18	18	18	18
	34171	18	18	18	32	32	32
	34250	18	18	18	18	18	18
	34350	18	18	18	18	18	18
	34370	18	18	18	32	32	32
	Navy						
	TD-7522,7523,7533 7544,7561,7589	18	18	18	18	18	18
	TD-7522,7523,7533 7544,7561,7589 (supvr)	18	18	18	32	32	32
Flight Technology(10)	Rated Military Pilot/Aviator	18	NA	NA	48	NA	NA

NOTES:

1. All requests for award of 32, 48, or 64 credit hours at the baccalaureate level must be accompanied by a completed and authenticated form; Attachment I.

2. Cumulative total of one or more military schools in the area of specialization.

3. 6 months OJT may be substituted for every week of school(s) under 12 weeks.

4. F.A.A. Maintenance Technology (Airframe and Powerplant) certificate is not required.

5. When an Army student in a specialist pay grade is in a supervisory position which precludes change of MOS, he may be awarded additional credits based on an evaluation of his request in Attachment I.

6. Marine Corps students must meet supervisory requirements for award of additional credit hours at the baccalaureate level.

7. To receive maximum credit (64 hours) for the baccalaureate degree, students must possess an F.A.A. Facility Rating (CTO). OJT is not applicable.

8. F.A.A. commercial pilot certificate is not required. Students must have completed an approved Aviation Safety Officer course/curriculum.

9. Electronic/avionic experience must have been on aviation equipment.

10. F.A.A. commercial pilot certificate is not required.

11. MOS 00Z50 is for the command sergeant major. The highest MOS held in an appropriate Area of Concentration prior to promotion to MOS 00Z50 will be the basis for award of credit.

REQUEST FOR AWARD OF CREDIT
FOR THE BACHELOR OF PROFESSIONAL AERONAUTICS

NAME: _____

GRADE/RATE: _____

ADDRESS: _____

_____

Time In Grade/Rate: _____

MOS: _____

AFSC: _____

NEC: _____

Time in MOS/AFSC/NEC: _____

Months Formal Schooling in Related MOS/AFSC/NEC: _____

Months Experience in MOS/AFSC/NEC: _____

Job Title: _____

Number of Persons Applicant Personally Supervises: _____

Description of Duties: _____

_____

_____

_____

_____

_____

_____

_____

_____

Signature of Commanding Officer
Grade, Organization

Attachment I

AVIATION MANAGEMENT DEGREE PROGRAMS

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 or her academic program to better meet their career objectives.

Admission Requirements

There are no special requirements for admission to this program; requirements are the same as the general requirements for admission to the University. (See page .)

Transfer Credit

Students having completed previous college work may request an evaluation of their college transcript through the Dean of Registration and Student Records. (See page .)

Degree Requirements:

The Bachelor of Science Degree requires 132 trimester academic credit hours. The Associate of Science Degree requires 66 trimester academic credit hours.

Area of Concentration

An Area of Concentration is not required, but one may concentrate the elective courses in an area of specialization if one wishes. The requirements of each Area of Concentration are listed under the Aeronautical Studies degree program in the E-RAU 1976-78 General Catalog.

They include:

Air Transportation Management
Flight Technology
Airport Management (On home campus only)
Applied Mathematics
Computer Technology
Air Force Aerospace Studies (AFROTC - On home campus only)
Military Science and Tactics (AROTC - On home campus only)

ASSOCIATE IN SCIENCE DEGREE

AVIATION MANAGEMENT

Number	Title	Credits
	Humanities/Social Science	
HU 120	Communications I	3
HU 121	Communications II	3
HU 220	Communications III	3
HU 221	Technical Report Writing	3
HU 250	Introduction to Logic	3
SS 110/120	World/American History	3
SS 210	Introduction to Sociology	3
SS 220	Introduction to Psychology	3
	Aeronautical Science	
AS 303	Government and Aviation	3
	Computer/Math/Physical Science	
CT 209	Introduction to Computers	3
MA 120	Quantitative Methods I	3
MA 220	Quantitative Methods II	3
MA 222	Business Statistics	3
PS 103	Basic Physics	3
PS 101	Basic Chemistry	3
	Economics	
EC 110	Macroeconomics	3
EC 210	Microeconomics	3
	Management Science	
MS 110	Accounting I	3
MS 112	Accounting II	3
MS 205	American Business Enterprise	3
MS 305	Management Analysis and Concepts	3
	Specified Management Elective	
MS/EC	Elective	3
	To be chosen from:	
MS 322	Aviation Insurance	
MS 405	General Aviation Marketing	
MS 408	Airport Management	
MS 410	Management of Air Cargo	
MS 415	Airline Management	
MS 420	Economics of Air Transportation	
	Total Credit Hours	66

BACHELOR OF SCIENCE DEGREE

AVIATION MANAGEMENT

Number	Title	Credits
	Humanities/Social Science	
HU 120	Communications I	3
HU 121	Communications II	3
HU 220	Communications III	3
HU 221	Technical Report Writing	3
HU 250	Logic	3
HU 340	Introduction to Philosophy	3
SS 110/120	World/American History	3
SS 210	Introduction to Sociology	3
SS 220	Introduction to Psychology	3
	Aeronautical Science	
AS 303	Government and Aviation	3
	Management Science	
MS 110	Accounting I	3
MS 112	Accounting II	3
MS 205	American Business Enterprise	3
MS 305	Management Analysis and Concepts	3
MS 311	Marketing	3
MS 313	Personnel Management	3
MS 315	Finance	3
MS 316	Psychology of Management	3
MS 318	Business Data Processing	3
MS 319	Management Information Systems	3
MS 331	Transportation Principles	3
MS 390	Business Law I	3
MS 401	Management Planning and Control	3
MS 420	Industrial Management	3
MS 430	Management Applications	3
	Economics	
EC 110	Macroeconomics	3
EC 210	Microeconomics	3
EC 310	Labor Economics	3
	Computer/Math/Physical Science	
CT 209	Introduction to Computers	3
MA 120	Quantitative Methods I	3
MA 220	Quantitative Methods II	3
MA 222	Business Statistics	3
MA 320	Decision Math	3
PS 101	Basic Chemistry	3
PS 103	Basic Physics	3

Number	Title	Credits
	Specified Management Electives	
MS/EC	Electives To be chosen from:	6
MS 322	Aviation Insurance	
MS 405	General Aviation Marketing	
MS 408	Airport Management	
MS 410	Management of Air Cargo	
MS 415	Airline Management	
EC 420	Economics of Air Transportation	
	Area of Concentration/General Electives	21
	Total Credit Hours	132

President Jack Hunt
European Graduation
May 21, 1977

COURSE DESCRIPTIONS

Courses numbered 100-199 are on the freshman level; 200-299 on the sophomore level; 300-399 on the junior level; 400-499 on the senior level.

The course offerings described below include those required in programs offered at European Center locations. A listing of additional courses offered by the University is contained in the E-RAU 1978-80 Catalog.

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

AERONAUTICAL ENGINEERING

AE 101 - Introduction to Aerospace Engineering — 2 Credits

The aerospace industry. Manufacturing processes; airframe construction and design; structural material; production planning and scheduling; PERT; prime and subcontracting. 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.

AVIATION MAINTENANCE TECHNOLOGY

AMT 106 - General Aeronautics and Applications — 4 Credits

General Aeronautics orientation, aircraft drawings and blueprints. Aircraft hand and machine tools. AN hardware, FAA regulations and maintenance publications, aircraft ground operations, basic math, basic physics, weight and balance, inspection fundamentals. (Formerly MT 110/120.)

AMT 126 - Airframe Science and Applications — 4 Credits

Aircraft wood, dope and fabric techniques, structural metal, sheet metal, corrosion control, welding methods, airframe alignment and rigging. Inspection of airframe materials and structures. (Formerly MT 111/121.)

AMT 156 - Aircraft Reciprocating Powerplant Science and Application — 4 Credits

Reciprocating engine theory and performance, induction and exhaust systems, engine fuel metering, lubricating and cooling. Reciprocating engine overhaul and repair, powerplant maintenance and trouble shooting. (Formerly MT 112/122.)

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. Regulations that are covered include: 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. Prerequisite: AS 100.

AS 104 - Careers in Aviation 1 Credit

A survey of the career opportunities available in the aviation industry. After completion of the course, the student will possess a knowledge of those positions available to an individual throughout the wide spectrum of the aviation industry, the desired qualifications, the normal advancement routes, and a comparison of opportunities between government and private industry. To maintain currency of information, guest lecturers from representative aviation career areas will be utilized to the maximum possible extent.

AS 201 - Meteorology I 3 Credits

The study of atmospheric processes and their relations to weather conditions encountered in the fields of aeronautics. Course includes cloud identification, solution of basic stability problems, study of air masses and the jet stream. Special emphasis is made on the aeronautical codes and weather maps.

AS 202 - 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. Prerequisite: AS 102.

AS 203 - Aircraft Engines - Reciprocating 3 Credits

A study of reciprocating engine fundamentals and theory. This course includes comprehensive study of components, construction, mechanical relationships, power calculations, carburetion, induction, ignition, fuel-air requirements and regulations pertaining to engine operation. After completion, the student should be able to discuss reciprocating engine theory, components and systems; calculate mathematically engine power requirements and component timing sequences; recognize the advantages and disadvantages of reciprocating engine configuration and construction characteristics; understand operating limitations; and interpret performance charts and graphs.

AS 210 - Aircraft Systems and Components 3 Credits

A study of aircraft systems and the regulations governing certification of the various components. The course includes a comprehensive study of electrical, environmental, hydraulic, fuel and lubrication systems and the theory and calculations relating to each. After completion, the student should be able to discuss theory and components of each system; calculate mathematically electrical circuits, hydraulic, fuel and lube requirements; recognize the advantage, disadvantages and limitations of each system; and interpret charts, graphs and schematic diagrams of the various systems.

AS 211 - Aircraft Engines and Systems 3 Credits

An introduction to reciprocating and gas turbine aircraft engines, coupled with a survey of aircraft systems and components typically found on reciprocating 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 301/601* - Meteorology II 3 Credits

This course expands the basic concepts of Meteorology I (AS 201) and is designed to enhance the knowledge of the professional aviator. The course will include study of hydrostatic and continuity equations; development and application of vorticity theory will also be included. Selected aviation weather topics such as aircraft weather radar, airline meteorology, atmospheric pollution, wind shear, wake turbulence and airport weather equipment will be explored. Students will do some elementary analysis and study current weather in the weather facility where possible. Prerequisite: PS 104, MA 112, AS 201 or equivalent (lab fee required). *May be taken for graduate-level credit toward MAS degree requirements with additional research and report.

AS 303 - Government and Aviation 3 Credits

The chronological developments 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 309 - 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. Prerequisite: MA 112.

AS 310 - Aircraft Performance 3 Credits

This course of study will provide the student with an understanding of the performance characteristics of modern reciprocating, turbo-prop, and jet aircraft. He will acquire a working knowledge of aircraft weight and balance procedures, takeoff and cruise control, and aircraft performance curves. He will make practical applications of his knowledge by computing operating data from aircraft charts and performance curves in order to obtain the highest degree of aircraft flight efficiencies. Prerequisite: AS 309.

AS 311 - Aircraft Engines, Turbine 3 Credits

This is a study of gas turbine fundamentals including thrust, factors affecting thrust, gas generator, mach number, specific fuel consumption, engine station designations, diffusers and diffusion, and types of gas turbine engines. Further, the student examines turbine engine components, including turbofan engine fan sections, compressors, fuel systems and fuel controls, turboprop fuel controls and propeller governors, as well as gas turbine engine operation and engine operational characteristics.

AS 401 - Airport Development and Operations 3 Credits

An in-depth study of the managerial problems associated with the development 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 FBO 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 405/505* - Aviation Law 3 Credits

A study of the chronological development of air law, including federal and state regulatory functions, rights and liabilities of aviators and operators, rights of third parties on the ground, case history study, liens and security interest in aircraft, international conferences, bilateral and multilateral agreements and treaties and national and international criminal statutes pertaining to aviation. Prerequisite: AS 303. *May be taken for graduate level credit toward MAS degree requirements with additional research and report.

AS 408 - Flight Safety 3 Credits

A study designed to identify and explain the potential influence on pilot performance of such factors as attitude, motivation, and perception. The course involves oral and written work in formulating and analyzing both ideal and practical personal and organizational safety goals and procedures. Detailed examination of actual accident cases provides the opportunity to analyze examples of real life failures in personal and organizational safety standards. Prerequisites: AS 307, AS 309 and Commercial Pilot qualification or equivalent.

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 treats air carrier operations from a practical standpoint as viewed by both the ground-based flight dispatcher and the cockpit flight crew. Portions of the Federal Aviation Regulations, Part 121, as they pertain to ground and in-flight operations, will be studied. Airline weight and cargo manifest forms will be filled out. Typical airline flight planning forms and in-flight charts and graphs will be used in analyzing air carrier flights from takeoff to landing. The course will include a review of weight and balance and aircraft performance considerations as they relate to air carrier operations. Prerequisites: AS 103, AS 201, AS 202, and AS 310.

AS 412 - Corporate/Business Aviation 3 Credits

The course provides insight into the operation of a corporate flight department. The student will understand the management mobility and the methods for applying the facilities to accomplish it. He will become acquainted with operational and administrative factors peculiar to corporate aviation; how aviation relates to industry; the typical flight department organization; aircraft and equipment evaluation; operations and maintenance; administrative and fiscal considerations.

AS 418/518* - Flight Engineer Preparatory 4 Credits

A study of the duties and responsibilities of a turbo-jet flight engineer, including airplane performance systems analysis. The course includes a detailed study of the various systems on the Boeing 727 type airplane, including the air conditioning system, electrical system, powerplant system, flight control system, landing gear and brake system, fuel system, hydraulic system, pressurization system, fire protection system and the auxiliary power unit. Prerequisites: AS 210, AS 309, AS 310. Corequisite: AS 419. *May be taken for graduate level credit toward MAS degree requirements with additional research and reports.

AS 419/519* - Flight Engineer Regulations 1 Credit

This course will prepare the student to understand the selected regulations governing the requirements for licensing of Flight Engineers and the regulations needed in the performance of the Flight Engineer's duties. (Parts 63 and 121.) Upon successful completion of the course, the student will be able to recognize conditions under which these rules apply and which regulatory procedures apply, whether it be under actual conditions or on exams (F.E. basic exam). Air carrier operations, to which these regulations apply, will also be discussed. Corequisite: AS 418. *May be taken for graduate level credit toward MAS degree requirements with additional research and report.

AS 299, 399, 499 - Special Topics in Aeronautical Science 1 - 3 Credits

Lectures, seminars, laboratories, independent studies, or combinations of these on selected topics in general aviation. Prerequisites: Consent of instructor and approval of Division Chairman. May be repeated with a change of subject.

AVIONICS

AV 301 - Avionics for Aviators 3 Credits

A survey course designed to present to the student the theory of operation, evaluation, purchase, installation and utilization of various types of avionic equipment. Subject area includes radio wave propagation, NAV/COMM, ILS, ADF, DME, transponder, weather radar, doppler, flight directors and area navigation systems.

AV 315 - Aircraft Communication and Navigation Systems 3 Credits

An advanced study of electronic communication and navigation equipment used in general commercial and military type aircraft. Subject areas include VHF communications, VOR, ADF, glideslope receivers, Markerbeacon Receivers and audio systems.

AV 316 - Aircraft Pulse Systems 3 Credits

An advanced study of electronic pulse type equipment used in general, commercial and military type aircraft. Subject areas include Transponder Systems and distance measuring equipment systems.

AV 317 - Aircraft Radar and Flight Control Systems 3 Credits

An advanced study of radar and autopilot systems used on general, commercial and military type aircraft. Subject areas include microwave transmission, principles of radar, radar component theory of operation, radar component circuitry, synchros, gyroscopes and autopilot systems. Prerequisite or corequisite: EL 205.

COMPUTER TECHNOLOGY

CT 205 - Introduction to Computers in Aviation 3 Credits

Diverse exposure to the digital computer and its uses and capabilities as a management tool. Topics include basic introduction to systems analysis and management information systems. Contrasts hardware capabilities, programming requirements, and systems analysis and planning.

CT 209 - Introduction to Computers 3 Credits

Concepts of algorithms, computers, and programming. Hands-on computer programming in BASIC. Student develops an appreciation of what kinds of tasks can (or cannot) be performed by computer, and the type of analysis and programming necessary to achieve desired results. (Lab fee required.) (Not to be taken by Engineering or Engineering Technology students.)

CT 210 - Computer Programming for Engineers 3 Credits

An introduction to the use of computers, specifically for engineering students. Problems covered are typical engineering computations. Required for AE majors. (Lab fee required.)

CT 220 - Fundamentals of Digital Computer Electronics 3 Credits

Operation and uses of the digital computer; number systems, Boolean algebra, and Veitch diagrams. Concepts of logic circuits and knowledge networks, programming, coding, and basic components and principles of operation of the digital computer.

CT 299, 399, 499 - Special Topics in Computing 1 - 6 Credits

Lectures, laboratories or seminars on selected topics in computing. Prerequisite: Consent of instructor and Division Chairman.

COOPERATIVE EDUCATION

CO 296, 297 — 6 Credits

Practical training and experience in full-time employment that is closely related to student's degree program and career goals. Course title is determined by type of work assignment. Prerequisite: Approval by Faculty Cooperative Education Advisor 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 - Macroeconomics (Formerly 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 - Microeconomics (Formerly Economics II) — 3 Credits

An introduction to economic principles, problems, and policies, with emphasis on microeconomic theory and current domestic economic problems.

EL 310 - Labor Economics — 3 Credits

A survey of the economics of the labor market: wage determination and employment theory. Labor organization, labor legislation and current developments in labor relations. Prerequisite: EC 210.

EC 320 - Economics of Industrial Organization — 3 Credits

Market structures in American Capitalism. Structure and behavior of firms in particular industries. Government regulation of industry. Anti-trust laws, transportation and public utilities. Prerequisites: EC 110 and EC 210.

EC 340 - Managerial Economics — 3 Credits

Use of the tools of economic analysis to develop insights into and to help solve problems in the operation and management of modern business enterprise. Imperfect markets, optimal combinations of products and pricing, forecasting demand, and capital budgeting are presented from the point of view of the decision-maker. Prerequisites: EC 110, EC 210, and MS 305.

EC 420 - Economics of Air Transportation 3 Credits

A study of the economic aspects of airline service, with consideration given to the impact of federal aid and regulation, types of aircraft, airport problems, consumer interests, and competitive practices. Prerequisites: MS 110, MS 200 or MS 205, EC 110, EC 210 and AS 303.

EC 299, 399, 499 - Special Topics in Economics 1 - 4 Credits

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

ELECTRONICS

EL 101 - Basic Electronic Concepts and D-C Circuits and Lab 4 Credits

A detailed study of basic electronic theory and D-C circuit concepts. Subject areas include the physical nature of matter, electrical terms, units and components, sources of D-C, resistance, inductance and capacitance, and Ohm's Law. Recommended prerequisite: MA 105.

EL 102 - Fundamentals of A-C and A-C Circuit Analysis and Lab 4 Credits

A detailed study of A-C theory and A-C circuit characteristics. Subject areas include vectors and phase relationships, inductive and capacitive reactance, impedance, series and parallel resonant circuits, transformer theory and A-C circuit analysis. Prerequisite: EL 101. Recommended prerequisite or corequisite: MA 111.

EL 103 - Vacuum Tube and Semiconductor Fundamentals and Lab 4 Credits

A detailed study of vacuum tube and semiconductor characteristics. Subject areas include vacuum tube fundamentals, vacuum tube parameters, multigrid and special tubes, semiconductor fundamentals, diodes, transistors and special purpose semiconductor devices. Prerequisite or corequisite: EL 102.

EL 104 - Basic Electronic Circuits and Systems and Lab 4 Credits

A detailed study of basic electronic circuits and their function in electronic systems. Subject areas include power supplies, amplifiers, electro-acoustic transducers, oscillators, radio transmitters, radio wave transmission, radio receivers, integrated circuits. Prerequisite: EL 103.

EL 105 - Basic Radiotelephone Equipment Theory and Operation 3 Credits

A preparatory course for the FCC 2nd class radiotelephone license. Classroom presentations include a review of basic electronic theory which is applicable to FCC 2nd class licensing, basic FCC law (Element I), basic operating practices (Element II) and basic radiotelephone (Element III). Prerequisite or corequisite: EL 104

EL 205 - Electronic Digital Fundamentals and Circuits 3 Credits

A detailed study of digital techniques used in modern electronic circuits. Subject areas include electronic switching devices, linear waveshaping circuits, digital logic, sweep oscillators, and multivibrators.

EL 206 - Advanced Radiotelephone Equipment Theory and Operation 3 Credits

A preparatory course for the 1st class FCC Radiotelephone license and FCC radar endorsement. Classroom presentations include a review of advanced electronic theory which is applicable to FCC 1st class licensing, advanced radiotelephone (Element IV) and radar techniques (Element VIII). Prerequisite or corequisite: EL 205.

EL 310 - Advanced Electronic Troubleshooting, Instruments and Techniques 2 Credits

A survey of basic and advanced test instruments and related measuring techniques. Subject areas include the theory of measurement, nature and sources of errors, test instrument operating theory, calibration and use. Prerequisite or corequisite: EL 205.

ENGINEERING TECHNOLOGY

ET 101 - Engineering Graphics I 2 Credits

Principles of lettering. Drawing instruments and their use. Linework code and drafting techniques. Geometrical construction. Multiview projection. Sectional and auxiliary revolutions. Dimensioning, shop processes and tolerances. Threads and fasteners. (Not for B.S.A.E. Degree credit.)

ET 110 - Aircraft Drafting and Descriptive Geometry 2 Credits

This is a lecture/laboratory course in aerospace drafting. It includes a review of dimensioning, tolerancing, threads, and fasteners. Preparation of detail, assembly, and installation drawings, including the completion of the title block, and parts list. Introduction to descriptive geometry and aircraft lofting. Airplane general arrangement and airfoil layout drawings. Reference plane systems. Flat pattern layout. Specifications and standard parts. Prerequisite: ET 101.

ET 303 - Aircraft Drafting and Detail Design 3 Credits

General arrangement of layout, detail and assembly drawings. Dimensioning, local and general notes, and specification of shop processes. Design and drafting of formed sheet metal parts; riveted, bolted, bonded and welded assemblies; control cable, push-pull rod, and torque tube assemblies. Hydraulic and electrical schematic and drafting. Prerequisite: ET 110.

HUMANITIES

HU 105 - Expressive Communication Skills — 3 Credits

This course is designed to improve competence in writing and speaking the English language, skills which are essential to any career in aviation. Grammar and mechanics, sentence and paragraph construction, and vocabulary building will be emphasized. (Credit not applicable to any degree.)

HU 115 - Receptive Communications Skills — 1 Credit

Designed to aid students in developing reading and listening skills. Emphasis is on vocabulary and comprehension skills. Lab fee is required. (Credit not applicable to any degree.)

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 evaluation skills.

HU 121 - Communications II — 3 Credits

A continuation of HU 120. Reading material - selected novels, poems, and plays. Prerequisite: HU 120.

HU 215 - College Reading Skills — 1 Credit

Designed to improve vocabulary, comprehension, and rate skills of students reading on the college level. Lab fee is required.

HU 220 - Communications III — 3 Credits

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 — 3 Credits

The preparation of formal and informal technical reports, abstracts, resumes, and business correspondence. A major emphasis will be placed on the long technical paper and on the acquisition of advanced writing skills. Prerequisite: HU 120.

HU 250 - Introduction to Logic — 3 Credits

Principles of valid thinking; the nature of inductive and deductive inferences and their applications.

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 Literature 3 Credits

A survey of intellectual backgrounds, major works and literary trends in American literature. Prerequisite: HU 121.

HU 340 - Introduction to Philosophy 3 Credits

An integrated study of man and the concepts of his culture including views about himself, society, religion, science, the nature of knowledge, and some of the major philosophical systems such as dialectical materialism, pragmatism, and existentialism.

HU 345 - Religions of Mankind 3 Credits

A survey of the major religions of the world, including Judaism, Christianity, Islan, Hinduism, Buddhism, and Confucianism, along with a brief examination of the development of religion as a vital aspect of man's experience in history.

HU 350 - Journalism 2 Credits

Presents simultaneously the theory and practice of the techniques of journalism, familiarizing the student with the functions, skills, and responsibilities required in writing, editing, and producing E-RAU's student publications. Open to students working on the staff of campus publications.

HU 299, 399, 499 - Special Topics in Humanities 1 - 6 Credits

Independent study, seminars, and other specially arranged courses not regularly scheduled. Prerequisite: Consent of instructor and approval of Division Chairman.

MATHEMATICS

MA 105 - Quantitative Skills 3 Credits

Fundamentals and theory of algebra, basic laws of fractions, exponents, radicals, factoring, linear equations, graphs and systems of linear equations. (Excess, undistributable elective.) Required of all students who are placed in this course.

MA 111 - College Mathematics for Aviation I 3 Credits

A precalculus course with applications to navigation, aircraft performance, aircraft design, aerodynamics, stability and control. Linear equations and inequalities; systems of equations; graphing; exponents and roots; quadratic equations; ratio and proportion; logarithms; mensuration formulae; trigeometric ratios and identities. Prerequisite: MA 105 or equivalent.

MA 112 - College Mathematics for Aviation II 3 Credits

Basic Calculus with an introduction to 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 3 Credits

Fundamental arithmetic and algebraic operations, functions, graphs, logarithms, matrix algebra. Prerequisite: MA 105 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 105 or equivalent.

MA 211 - Statistics with Aviation Applications 3 Credits

Descriptive statistics; populations and samples; sampling and random samples; mean, variance and standard deviation; elementary probability; binomial distribution, Poisson distribution and their interrelationships; one and two-sample hypothesis testing involving proportions and means for large and small samples; estimation and confidence intervals; Chi-square distribution; correlation and the Pearson coefficient and applications of these topics in aviation. Prerequisite: MA 111.

MA 220 - Quantitative Methods II 3 Credits

Limits; differentiation and integration of algebraic, exponential and logarithmic functions; applications of differentiation to maximizing, and minimizing and curve sketching; the differential; marginal values, applications to economic and business problems. Prerequisite: MA 120.

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.

MA 241 - Calculus and Analytical Geometry I 4 Credits

Graphs and equations; limits and continuity; differentiation and integration of algebraic functions; application of first and second derivatives. Prerequisite: MA 140. Corequisite: MA 141 or permission of Division Chairman.

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 Analytic Geometry III 4 Credits

Solid analytic geometry; vector functions in three dimensions; elements of infinite series; partial differentiation; multiple integrals. Prequisite: MA 242.

MA 300 - Applied Logic 3 Credits

Algebra of logic; truth tables; axiomatic systems; set theory; Boolean algebra; design and simplification of digital circuits. Prerequisites: MA 111 or MA 120 or MA 140.

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. (Not open to engineering students.)

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.

MA 412 - Probability and Statistics 3 Credits

The probalistic model; probability in finite sample spaces; conditional probability and Baye's Theorem; descrete and continuous random variables; functions of random variables; expected value, variance and standard deviation; systematic study of the major descrete and continuous random variables; moment generating functions. Prerequisite: MA 220 or Corequisite: MA 242.

MA 430 - Linear Algebra and Linear Programming 3 Credits

Matrices, vectors, mathematical systems, determinants. Characteristics of linear programming problems, the simplex method, the transportation problem. Prerequisite: Junior or senior classification, consent of instructor.

MA 441 - Advanced Engineering Mathematics I — 3 Credits

Line integrals in rectangular coordinates. Vector fields with the study of Green, Guass and Stoke's theorems. Applications of vector field theory. Fourier series and orthogonal functions. Prerequisite: MA 243.

MA 442 - Advanced Engineering Mathematics II — 3 Credits

The solution of linear equations with variable coefficients; study of the derivation, characteristics and solutions of partial differential equations; Fourier series, Fourier transform, Laplace transform and Green's function; applications in science and engineering. Prerequisite: MA 441.

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 243.

MA 299, 399, 499 - Special Topics in Mathematics — 1 - 6 Credits

Lectures, seminars, laboratories, independent studies, or combinations on selected topics in mathematics. Prerequisite: Consent of instructor and approval of Division Chairman.

MANAGEMENT SCIENCE

MS 110 - Accounting I — 3 Credits

An introduction to accounting: double entry, income statement, balance sheet, interpretation of accounts; partnerships and corporations. Corequisite: MS 200. (Lab fee required.)

MS 112 - Accounting II — 3 Credits

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 Management — 3 Credits

An overview of business management. Stress placed on management, its nature, environment and opportunities. Organization, marketing, and operational factors considered.

MS 205 - American Business Enterprise 3 Credits

The role of business in American society. Examines the issues, foundations and environment of the business enterprise system. Business financing, production, marketing, and employee relations are stressed.

MS 305 - Management Analysis and Concepts 3 Credits

Relevance and limitations of management theory in contemporary organizations. Current managerial problems and issues in a world of rapid change. Prerequisite: MS 200 or MS 205.

MS 308 - Public Administration 3 Credits

Characteristics of organization and management in government; impact of political processes and public pressures on administrative action; role of regulatory agencies; governmental personnel and budgetary procedures; unique qualification of the public administrator. Prerequisite: MS 305.

MS 311 - Marketing 3 Credits

Marketing theory; marketing management; sales management; market research. Public and customer relations; advertising, distribution. Government agencies as customers. Prerequisite: MS 305.

MS 312 - Accounting for Management Planning and Control 3 Credits

The objective of this course is to explain how accounting data can be interpreted and used by management in planning and controlling business activity. The student will acquire a knowledge of the usefulness and limitations of accounting and how it can help managers operate more effectively. Prerequisites: MS 112, MS 305, and MA 112 or MA 120.

MS 313 - Personnel Management 3 Credits

An introduction to the methods and viewpoints of modern personnel administration. Case studies are selected to develop logical thinking in actual situations. Prerequisites: SS 210 or SS 220 and MS 205.

MS 315 - Finance 3 Credits

The finance function, financial analysis and control, financial planning, short term and intermediate term financing, long term financing and financial strategies. Prerequisites: MS 110 and MS 305 and MA 112 or MA 120.

MS 316 - Psychology of Management 3 Credits

A basic course about human problems within the supervisory and management ranks. An introduction to individuals, pairs, and different sized groups in organizations. Prerequisites: SS 210 or SS 220 and MS 205.

MS 318 - Business Data Processing 3 Credits

A management approach to understanding the computer's impact on the business enterprise. Characteristics, potentialities, and limitations of electronic data processing are included. The major emphasis is on problem solving and preparation of reports commonly used in business activities. Prerequisites: MS 110, MS 205 and CT 209. (Lab fee required.)

MS 319 - Management Information Systems 3 Credits

Management information acquisition and presentation. Information economics and information management, information systems analysis, and operations analysis tools, accounting systems, critical-path information systems, inventory information systems, marketing information systems. Prerequisites: MS 30[illegible], MS 318, and MA 211 or MA 222. (Lab fee required.)

MS 322 - Aviation Insurance 3 Credits

An introduction to the basic principles of insurance and risk with its special application to the aviation industry. An in-depth review of the aviation insurance industry in the United States including the market and types of Aviation Insurers. Prerequisite: MS 205.

MS 331 - Transportation Principles 3 Credits

Basic principles of the several modes of transportation - air, sea, rail, motor, water, and pipeline, including problems of competition, the importance of each in the economy, and future developmental prospects. Prerequisites: EC 110 and MS 205.

MS 390 - Business Law I 3 Credits

A survey of the legal aspects of business transactions. Areas covered include: contracts, agency, bailments, negotiable instruments, partnerships, corporations, consumer credit, and the government's influence on business law. Prerequisite: MS 205.

MS 400 - Business Law II 3 Credits

Designed to give the management student a broader view of the legal aspect of today's business world. The course covers the sources of the law as well as enforcement. Particular attention is given to the laws governing the legal environment of business. Prerequisite: MS 390.

MS 401 - Management Planning and Control 3 Credits

The requirements for short term and long range planning are investigated. New product planning is discussed. The importance of the control functions will be emphasized with particular attention paid to applications of these functions to aviation oriented activities. Prerequisites: CT 209, EC 210, MS 305, MS 313. (Lab fee required.)

MS 405 - General Aviation Marketing 3 Credits

Basic marketing concepts and procedures involved in the sale of general aviation aircraft and components to private industry and government. Particular emphasis will be on corporate aviation and commuter airlines. Prerequisites: EC 210 and MS 305.

MS 408 - Airport Management 3 Credits

Comprehensive examination of the major functions of Airport Management including master planning. Study of the socioeconomic effect of airports on the communities they serve. Prerequisites: MS 305, EC 110 and EC 210.

MS 410 - Management of Air Cargo 3 Credits

Intensive study of the practices and problems of management with respect to air cargo. Importance of air cargo service to the economy, rate and tariff problems, terminal facilities, competition, and future prospects. Prerequisites: EC 110 and MS 305.

MS 415 - Airline Management 3 Credits

An introduction to the administrative aspects of airline operation and management. Topics include the Annual Profit Plan, Uniform System of Accounts and Reports, demand analysis, scheduling, the theory of pricing, fleet planning, facilities planning and airline financing. Prerequisites: MS 305 and EC 210. (Course material may also be offered at the graduate level.)

MS 420 - Industrial Management 3 Credits

An intensive study of management in all organizations - service oriented and product oriented. Subjects such as scheduling, inventory control, procurement, quality control and safety are investigated. Particular attention is paid to applications of these to aviation oriented activities. Prerequisites: EC 210, MS 305 and MS 313.

MS 421 - Small Business Management 3 Credits

An analysis of the theoretical and practical knowledge necessary to be successful in conceiving, initiating, organizing and operating a small business. Special focus will be placed on small businesses in the aviation field. Prerequisites: EC 210, MS 305, and MA 112 or MA 120.

MS 425 - Trends and Current Problems in Air Transportation 3 Credits

Analysis of selected contemporary issues, problems and trends facing management in various segments of the aviation industry including general aviation and the airlines. Students who applied previously learned concepts to practical problems to develop increased understanding and demonstrate knowledge of the subject. Prerequisites: EC 110 and MS 305.

MS 430 - Management Applications 3 Credits

Case problems in determining business policy, instituting policy and appraising the results. The viewpoint is that of top and middle management. Prerequisites: MA 320, MS 313, MS 401 and MS 420

MS 299, 399, 499 - Special Topics in Management 1 - 4 Credits

Lectures, seminars, laboratories, independent studies, or combination of selected topics in management. Prerequisites: Consent of the instructor and approval of Division Chairman. May be repeated with change of content.

PHYSICAL SCIENCE

PS 101 - Basic Chemistry 3 Credits

Elementary Chemical theory with considerable application for 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. (Not open to Engineering majors.) Prerequisites: MA 111 or MA 120.

PS 103 - Basic Physics 3 Credits

Survey course in elementary physics. Stress will be on basic physics principles. Problem solving and problem solving logic will be an important, integral part of the course. Topics will include: Newton's Laws, gravitation, projectile motion, conservation laws, sound, light, special theory of relativity, and quantum theory. (Not open to Engineering majors.) Prerequisites: MA 111 or MA 120.

PS 104 - Applied Physics 3 Credits

Application of the basic physics principles discussed in PS 103. Other application areas will include fluid mechanics, thermodynamics, kinetic theory, basic electrical theory and electronics. Prerequisites: PS 103, MA 112. (Lab fee required.) (Not open to Engineering majors.)

PS 105 - Chemistry I with Laboratory 4 Credits

Fundamental principles of chemistry, basic atomic theory, valence, the chemical bond, oxidation number, symbols, formulas, equation and nomenclature. Chemical calculations, rates of reaction. Acids, bases and salt. Oxygen and hydrogen. The periodic system. Conservation of mass and energy. Corequisite: MA 140 or MA 241. (Lab fee required.)

PS 106 - Chemistry II with Laboratory 4 Credits

Equilibrium, knetics, oxidation and reduction, electrochemistry and organic chemistry; study of nomenclature, functional groups, elementary preparation, reactions and uses of organic compounds. Prerequisite: PS 105. (Lab fee required.)

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. Four lectures per week and one 3 hour laboratory per week. Corequisite: MA 242. (Lab fee required.)

PS 202 - Physics II, Sound, Electricity and Light with Laboratory 5 Credits

Wave motion, sound waves, acoustics. Fundamental laws of electricity and magnetism. Electrostatic and electromagnetic field theory. Induced electromagnetic forces. Power, Capacitance, Electrical instruments. Nature of light, index of refraction, regraction by lenses, reflection from mirrors, diffraction, and interference. Four lectures per week and one 4 hour laboratory per week. Prerequisite: PS 201. (Lab fee required.)

PS 304 - Man and His Environment 3 Credits

A survey course in the environmental problems arising from man's use and abuse of his environment. Ecological, Economic, Sociologic and Technologic Principles will be applies to the management control of pollution of the atmosphere, land and water resources of the earth. Prerequisite: PS 101 or PS 105.

PS 299, 399, 499 - Special Topics in Physical Science 1 - 4 Credits

Topics within the fields of the physical sciences impinging on aeronautical engineering development or practices and which are of current or anticipated interest will be discussed on a seminar basis. Prerequisite: Consent of instructor and approval of Division Chairman.

SAFETY OF FLIGHT

SF 195 - Safety Management 2 Credits

A study of basic principles of management and the essentiality of these applications to sound aviation prevention efforts. The philosophy and historical development of major concepts are examined, with particular emphasis on areas of special concern in organizational accident prevention. Students analyze the influence of morale, education and training and other substantial program elements of value to the aviation safety manager.

SF 219 - Aviation Psychology 2 Credits

An analysis of the factors influencing human behavior and social interactions as they pertain to aviation safety. Emphasis is placed on recognition and modification of psychological stress situations and behavioral problems that are potentially hazardous to aviation operations.

SF 250 - Safety Program Development 3 Credits

A study of basic program principles together with detailed analysis of effective procedures and techniques involved both in the development and day-to-day supervision of aviation safety programs. Students develop capability to: recognize principal elements of an effective program, prepare an accident prevention plan, effectively use statistics, surveys,and safety meetings. The value and impact of pre-accident planning, safety education and efficient administrative procedures are recognized.

SF 303 - Introduction to Aircraft Structures 2 Credits

An analysis of aircraft structural factors related to the prevention and investigation of aircraft accidents. These factors include interpreting the principles of statics, tensile, compressive and shear stresses, and deformation analysis, analysis of space structures including fuselage stress analysis, wing structural analysis, shear flow, bending and torsion stresses, and failure analysis.

SF 307 - Aviation Physiology 2 Credits

An evaluation of the physiological factors involved in the cause and prevention of aviation accidents. Included are the interpretation and application of significant aeromedical information, and a description of medical resources available for assistance in safety program development and management.

SF 308 - Subsonic Aerodynamics 3 Credits

A study of subsonic aerodynamics, stressing application to rotary wing aircraft. Included are application of subsonic flow phenomena, description of aerodynamic force development, interpretation of performance relationships, and analyzing stability, control, and structural considerations, as they pertain to rotary wing and subsonic fixed wing aircraft.

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 U.S. as a World power, World War I and II. The great depression and its aftermath.

SS 205 - Applied Individual-Group Psychology 1 Credit

A course in which students will be enabled to assess and develop those personal and interpersonal dynamics necessarily related to pursuing their academic, career and life goals.

SS 210 - Introduction to Sociology 3 Credits

Integrated survey of the fundamental concepts of culture, forms of collective behavior, community and social organization, social interaction, and social change. The social effects of aviation and the impact of science on the social order living in air-age will also be investigated.

SS 220 - Introduction Psychology 3 Credits

Designed to help the student become aware of the many factors influencing human behavior and social interaction, and to better understand the context of emotional disturbances.

SS 310 - Personality Development 3 Credits

A course to better acquaint the individual with the environmental factors that affect personality development, emotional stability, and interpersonal relationship in our society. Through a better understanding of these factors, the individual will have discovered new modes of adjustment, both in his own life, and in his family and occupational setting.

SS 320 - American National Government 3 Credits

Basic issues of American Democracy. Constitutional principles and the Executive. Legislative. and Judicial branches of government.

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 Policy 3 Credits

A survey of the evolution of present American Foreign Policy, stressing the factors which effect and shape this policy. Attention is given to present governmental offices, agencies and departments and the role each plays in policy formulation. Emphasis is on the period since World War II.

SS 299, 399, 499 - Special Topics in the Social Sciences 1 - 6 Credits

Independent study, seminars, travel seminars, and other specially arranged courses not regularly scheduled in the areas of history, sociology, psychology, and human culture in general. Prerequisite: Consent of instructor and approval of Division Chairman.

University Academic Standard/Procedures Excerpts for Students and Educational Center Personnel. (The following policy excerpts are subject to modification at any time.)

SUBJECT: Contract for Degree

Need for Standard/Procedure

The University is a member institution of the Four-Year Servicemen's Opportunity College. As a member, the University pledges its continuing efforts to make its educational program available to service personnel in ways consistent with their military assignments. In addition to active duty service personnel, the University also serves the educational needs of certain F.A.A. personnel who are subject to transfer to locations not served by the University. The Contract for Degree program is designed to partially fulfill the University commitment to the Servicemen's Opportunity College criteria and to serve the needs of Federal Aviation Administration personnel.

Standard/Procedure

1. The following catagories of students are eligible to apply for the Contract for Degree:

   a) Active duty military personnel who have been enrolled in Embry-Riddle courses and/or programs and who are subsequently assigned on military orders to locations not served by the University.

   b) Federal Aviation Administration personnel who have been enrolled in Embry-Riddle courses and/or programs and who are subsequently transferred to F.A.A. facilities at locations not served by the University.

2. Eligible individuals make application for the Contract for Degree by submitting an application and all supporting documentation to the office of the Director of Admissions.

3. Upon receipt of the application and supporting documents, an official evaluation will be prepared and qualified applicants will be admitted as Contract for Degree students in the College of Continuing Education.

4. The College of Continuing Education will be responsible for monitoring each Contract for Degree student's progress toward degree completion. When the student request approval of courses to be taken with other institutions to apply toward his degree, the College of Continuing Education will insure that approval of the appropriate Division Chairman is obtained.

5. For Contract for Degree students, the University waives the requirement that the student be enrolled in Embry-Riddle courses during the last two terms preceding graduation. All other degree requirements specified in the University Catalog under which the student is accepted must be fulfilled.

6. The Contract for Degree will remain in force until such time as one of the following occurs:

   a) All requirements for the degree are completed, and the degree is awarded.

   b) The student is released from active military service, or from employment by the Federal Aviation Administration, as applicable.

c) The student fails to fulfill responsibilities listed in the Contract.

d) The student is assigned to a location where Embry-Riddle courses are offered. In such situations, the student is expected to maintain continuous enrollment with the University in order to complete degree requirements.

e) The student submits a written request for termination.

SUBJECT: Catalog Applicability

Need for Standard/Procedure

The E-RAU Catalog changes from year to year as the University develops new programs, requirements, and standards. In addition, students apply for admission, enroll, drop out, and re-enroll at a later time. There is a need for a Standard/Procedure to establish under which catalog a student will be evaluated and required to complete all degree requirements in order to receive a degree or certificate.

Standard/Procedure

1. On Campus - The catalog in effect the trimester a student matriculates is applicable. Subsequent to initial enrollment, if the student is not absent from the University for a period of two or more years, he/she may remain under the catalog in effect at the time of the initial matriculation. If, however, the student is not enrolled with the University for a period exceeding two years, or if during periods of absence from the University, the student enrolls with other colleges and universities for 12 or more trimester/semester hours of work, the student must reapply for admission to the University and will be under the catalog in effect the trimester he/she re-enrolls at Embry-Riddle.

2. Off Campus - The catalog in effect the term a student applies and is accepted for admission as a degree student is applicable. Other standards as stated above for on-campus students are applicable, except that required courses not offered by Embry-Riddle at the off-campus location concerned may be applied toward the degree when taken with another accredited institution at that location.

3. Change of Program - When a student makes a change of degree/certificate program, he/she may elect to remain under the catalog applicable prior to his/her change of program. In the event the new program was not offered in the catalog under which he/she was enrolled, the requirements of the first catalog that offered the program will apply unless the student elects a later catalog.

4. Part Time/Full Time - A student's status (part or full time) will not affect his/her graduation requirement or catalog.

5. Election of Later Catalog - Any enrolled student may elect to graduate in accordance with the requirements of a catalog published after his/her matriculation catalog. (This refers only to the curriculum and specific requirement for graduation as published in the catalog. Other changes in academic policy will apply to students currently enrolled, regardless of when they matriculated.)

6. Degree Completion Program Students - Active duty military students are provided a letter of acceptance based on the catalog in effect at the time of the applicant's anticipated matriculation on campus. In the event the military service concerned approves such students under a degree completion program, the catalog

on which the applicant's evaluation and letter of acceptance were based will apply.

SUBJECT: Application for Admission of Off-Campus Students

Need for Standard/Procedure

Students enroll at off-campus centers located on military installations as special students and normally do not apply for admission until they are ready to request the military to send them to the campus for degree completion. For many,several catalog changes may occur over a period of years. Therefore, the credits they think they have and the courses they think are required for degree completion may have changed, resulting in confusion and discontent. Additionally, the processing of letters of acceptance for off-campus students would be facilitated if the students were already degree candidates.

Standard/Procedure

Upon completion of 15 credit hours in residence with E-RAU, all special students enrolled at off-campus locations must take action as indicated below prior to enrolling in additional courses:

1. Unless accomplished earlier, submit a formal Application for Admission as a degree candidate.

2. Students who do not submit a formal Application for Admission and who wish to remain as special students must complete the form (Attachment 1) which indicates their understanding of catalog applicability and credit policy changes.

ATTACHMENT 1

Special Student Status

I, _____, currently a special student at the

_____ Center and having completed at least 15 credit hours in residence with E-RAU, desire to continue enrollment with E-RAU as a special student.

I understand that the current E-RAU catalog in effect may be changed from year to year and that the E-RAU catalog in effect for the term that I submit a formal Application for Admission as a degree candidate will govern my degree program.

I further understand that any changes in credit policy which occur between now and the time I submit a formal Application for Admission as a degree candidate will apply to me and may result in a loss of credit to which I now am entitled.

_____
(Student Signature)

_____
(E-RAU or Education Center Representative

_____
(Date)

SUBJECT: Participation in Graduation Ceremonies

Need for Standard/Procedure

In order that the graduation ceremonies may maintain the integrity and dignity with which they traditionally are accompanied, it is important that students who participate and upon whom degrees are conferred have actually completed the requirements for graduation.

Standard/Procedure

In order to participate in the public, formal graduation ceremonies conducted by the University as a recipient of a degree, a student must have completed all requirements for graduation as stipulated by the University, including completion of all required courses and credit hours with satisfactory grades and payments of all fees.

SUBJECT: Repeat Courses/Computation of GPA

Need for Standard/Procedure

The University allows, and in certain cases strongly urges, students to repeat courses, particularly those in which a final grade of D or F has been recorded. A need exists to define the procedure for applying performance in the repeated course to the student's transcript and to the overall Grade Point Average.

Standard/Procedure

1. Currently enrolled students will be permitted to repeat, without restriction, any Embry-Riddle course. The grade for each attempt will appear on the student's record; however, only the grade for the last attempt will be used in computing the Grade Point Average.

2. Currently enrolled students who wish to apply this Standard/Procedure to courses repeated prior to January 1, 1976 must direct a special request to the Office of Registration and Records.

SUBJECT: Grades for Audit and Withdrawal

Need for Standard/Procedure

Audit - The entry of "Audit" on a student's record historically has indicated that the student sat for the lectures, but did not take any exams, and therefore, received no credit. There is need for a procedure to assure that the grade of audit represents class attendance and at least exposure to the subject of the course.

Withdrawal - At times a student finds his/her course load to be more than he/she can satisfactorily handle, and as a result, desires to withdraw from one or more of his/her courses. In such cases, he/she is assigned a grade of "W". There is a need for a procedure to determine the latest time during the course the student can withdraw from the course and receive the grade of "W".

Standard/Procedure

Audit

a. A student may change his/her registration from audit to credit only during the add period of the registration period at the beginning of the term, which means the change from audit to credit must follow the same deadline and procedure as adding a new course.

b. A student may change his/her registration from credit to audit only during the withdrawal period as defined below.

c. If a student enrolled in a course for audit fails to maintain satisfactory class attendance as determined by the instructor, he/she is to be assigned a grade of "W".

Withdrawal

a. A student may withdraw from a course by filing a change of registration with the Registrar's office indicating same. When properly filed, he/she is assigned a grade of "W".

b. Deadline for withdrawing from a course - the student may file a request for withdrawal at any time during the first nine weeks of a trimester and during the first four and one-half weeks for a half-trimester term. This gives him/her ample time to assess his/her position in the course based on his/her mid-term grade.

c. When a student withdraws from the University prior to the end of the term, he/she is to be assigned a grade of "W" in all courses in which he/she is enrolled.

SUBJECT: Acceptance of Credits Upon Recommendation of the American Council on Education

Need for Standard/Procedure

The 1974 Guide to the Evaluation of Educational Experiences in the Armed Services, published by the American Council on Education, represents a major departure from credit recommendations contained in the 1968 edition of the Guide.

Whereas the 1968 version recommended only a certain number of credit hours for each course syllabus, the 1974 version makes credit hour recommendations in four different categories as follows:

1) Vocational-Certificate;

2) Technical-Associate Degree;

3) Upper division-Baccalaureate Degree; and

4) Graduate Degree.

There is a need to define how the American Council on Education recommendations will be applied toward Embry-Riddle degree programs.

Standard/Procedure

1. E-RAU will accept recommendations of the American Council on Education, as contained in the Guide, for award of academic credit based on successful completion of military and/or Department of Defense service schools.

2. Credits will be accepted at the level recommended in the Guide.

3. Credit will be granted on the basis of only one of the four possible categories of credit recommended by the ACE Guide, depending on the degree requirements of the student's program. Specifically, when the student is pursuing an associate degree, the ACE recommendation for Technical-Associate Degree credit will be accepted; when the student is pursuing a baccalaureate degree, the ACE recommendation for Upper Division-Baccalaureate Degree credit will be accepted, but not both.

4. Credits will be accepted for specific E-RAU courses when the title and description of the courses recommended by the Guide can be correlated to specific E-RAU courses. In the absence of specific course recommendations applicable to E-RAU curricula, credit hours will be accepted as electives in a recommended discipline, such as a management elective, or open elective.

5. In the event a block of hours is recommended in one or more disciplines, prior to identification of specific E-RAU courses for which the credits may be applied, a Program of Instruction (POI) must be secured and reviewed for recommendations by appropriate E-RAU faculty members.

SUBJECT: CLEP Subject Examinations - Off-Campus Programs

Need for Standard/Procedure

At some off-campus locations the University may have entered into agreements with education services officials indicating that we will not offer those courses required by our students when these courses are offered by another institution at the location. Because of insufficient demand for these courses, the other institutions involved often do not offer the specific course or courses required in a timely manner. As a result, students are sometimes delayed in their degree completion and in other cases must disenroll from our off-campus program in order to complete courses required.

Standard/Procedure

1. With prior approval of the Associate Dean, European Residence Center, a degree candidate student enrolled at an off-campus location may be authorized to take CLEP subject examinations listed in the current Curriculum Standards/ Procedures Manual and to apply credit hours for successful completion of those tests toward his/her degree requirements.

2. In order to apply these credit hours, the examinations must be completed prior to submission of an Application for Graduation and prior to enrollment for the last term immediately preceding the student's planned degree completion.

3. The minimum score acceptable for each subject examination is indicated in the E-RAU Curriculum Development/Evaluation Manual.

CREDIT FOR CLEP AND USAFI/DANTES TESTS

1. CLEP General Examinations (See VA-C/E-05):

   a. Credit for the CLEP General examinations is granted on the basis of the recommendations of the American Council on Education. The maximum number of credit hours which may be awarded is 25.

   EXAM #1 (English) - 6 credits for HU 120 and HU 121.

   EXAM #2 (Social Studies) - The score may be reported only as a total score, in which case 6 credits are awarded (3 for SS 210 or SS 220 and 3 for SS 110 or SS 120). If sub-scores are also given for SS (Social Science) and HI (History), three hours will be awarded for each section of the exam for which an acceptable score is achieved.

   EXAM #3 (Natural Sciences) - The score may be reported only as a total score, in which case 6 credits are awarded, or with sub-scores for BI (Biological Science) and PS (Physical Science). If sub-scores are given, 3 elective credits will be awarded for each section of the exam for which an acceptable score is achieved. Toward the Professional Aeronautics degree credit will be granted for required Physical and Life Sciences credit when acceptable scores are reported.

   EXAM #4 (Humanities) - The score may be reported only as a total score in which case 4 elective credits are granted for Humanities (Art and Literature). If sub-scores are given for FA (Fine Arts) and LI (Literature), 2 elective credits will be awarded for each section of the exam for which an acceptable score is achieved.

   EXAM #5 (Mathematics) - E-RAU grants 3 credits for MA 105, (excess undistributed elective). If a test score from the 50th to 74th percentile is achieved, credit is awarded for either MA 111, MA 120, or MA 140, depending on which course is required in the student's program. The Chairman, Mathematics/Physical Science Division will determine the mathematics credit award on an individual basis for students scoring at or above the 75th percentile.

   b. Duplicate credit will not be granted for CLEP examinations and equivalent courses completed with transferrable grades at other institutions. For example, if a student has completed two college Composition and Literature courses with acceptable grades, these would transfer for HU 120 and HU 121 and no credit would be granted for CLEP General Exam #1. In a similar manner, if a student has satisfactorily completed college courses in Sociology or Psychology and American or World History credit would not be granted for CLEP General Exam #2.

2. GED Tests, College Level: The General Educational Development Tests, College Level, were replaced by the CLEP examinations in July, 1965. In accordance with the American Council on Education guidance, credit may be granted on the basis of the college level GED's if the standard score achieved is at or above that shown. Note that this is the standard score and not percentile.

Test	Minimum Standard Score
1. Expression	55
2. Social Studies	60
3. Natural Sciences	61
4. Literary Materials	57

Assuming the specified minimum standard score is achieved, credit is granted for these tests in the same manner as for the first four CLEP General Examinations.

3. CLEP Subject Examinations (See VA-C/E-05): In addition to the General Examinations, credit for CLEP subject examinations will be awarded. The minimum standard scores required for award of credit are as follows and are in accordance with the recommendations of the American Council on Education.

Subject Exam	Min. Score	E-RAU Course(s)	Credit hours
American Government	47	SS 320	3
American History	46	SS 120	3
American Literature	46	HU 310	3
College Algebra	50	MA 140 or MA 120	3
Computers and Data Processing	46	MS 318	3
Elem. Comp. Progr. - FORTRAN IV	48	CT 209	3
English Composition	48	HU 120 & HU 121	6
General Chemistry	48	PS 105 & PS 101	4
Introductory Accounting	50	MS 110 & MS 112	6
Introductory Business Law	51	MS 390	3
Introductory Economics	47	EC 110 & EC 210	6
Introductory Marketing	48	MS 311	3
Introductory Sociology	47	SS 210	3
Statistics	49	MA 222	3
Trigonometry	49	MA 141	2
Western Civilization	50	SS 110	3

4. USAFI and DANTES Courses and End-of Course Examinations: Credit for USAFI and DANTES courses and End-of-Course Examinations is awarded in accordance with the recommendations of the American Council on Education. A listing of USAFI courses is included as Attachment #1.

USAFI/DANTES

This is a listing of USAFI/DANTES courses evaluated by the University. A Complete listing of these courses is contained in the ACE "Guide".

Level of Academic Credit: When granting academic credit based on the recommendation of the ACE Guide, except for those courses which are specifically defined in terms of E-RAU upper level course equivalents, all credits granted will be considered to be lower level course credits (100-200 level).

USAFI NUMBER	DANTES NUMBER	EXAMINATION NUMBER AND TITLE	E-RAU COURSE(S)	CREDIT HOURS
F400		English Composition I	HU 210	3
F401		English Composition II	HU 121	3
E404		Survey of English Literature I	Elective	3
E405		Survey of English Literature II	Elective	3
A412		Afro-American Literature	Elective	3
A424	SA424	Intermediate College Algebra	MA 105	3
F425	SA425	College Algebra	MA 120, 140 or 111	3
B433	SB433	Basic Statistics	MA 211 or 222	3
E435	SA435	Plane Trigonometry	MA 141	2
B442		Analytic Geometry & Calculus I	MA 241	4
B443		Analytic Geometry & Calculus II	MA 242	4
A444		Analytic Geometry & Calculus III	MA 243	4
A445	SA445	Differential Equations	MA 340	3
A446	SA446	Linear Algebra	MA 430	3
D453	SB453	Principles of Economics I	EC 110	3
D454	SB454	Principles of Economics II	EC 210	3
F455		History of the US to 1865	Elective	3
F456		History of the US from 1865	SS 120	3
E457	SB457	History of Western Civilization to 1500	Elective	3
E458	SB458	History of Western Civiliz. from 1500	SS 110	3
E459		Modern European History I	Elective	3
E460		Modern European History II	Elective	3
B462	SA462	History of the American Negro	Elective	3
B463		Russian History to 1855	Elective	3
B464		Russian History since 1855	Elective	3
E467	SA467	History of Modern East Asia	Elective	3
A468	SA468	History of Southeast Asia	Elective	3
A469		History of the Middle East	Elective	3
A472	SA472	Problems of Contemporary Latin America	Elective	3
F475		American Government I	SS 320	3
F476		American Government II	Elective	3
B479		International Relations	SS 340	3
A481	SA481	Modern European Governments	Elective	3
A482	SA482	Modern Asian Governments	Elective	3
F485		General Psychology	SS 220	3
E488	SA488	Psychology of Personality & Adjustments	SS 310	3
A494	SA494	General Anthropology	Elective	3
F495		Introductory Sociology	SS 210	3

USAFI NUMBER	DANTES NUMBER	EXAMINATION NUMBER AND TITLE	E-RAU COURSE(S)	CREDIT HOURS
B496		Social Problems	Elective	3
A497	SA497	Introduction to Law Enforcement	Elective	3
F498	SA498	Criminology	Elective	3
B500	SA500	Astronomy	Elective	3
D503		College Biology I	Elective	3
D504		College Biology II	Elective	3
C505	SA505	General Geophysics	Elective	3
D507		Healthful Living	Elective	3
A510	SA510	Oceanography	Elective	3
C512	SB512	Principles of Physical Science I	PS 101	3
C513		Principles of Physical Science II	PS 102	3
E514	SA514	College Chemistry I	PS 101	3
E515	SA515	College Chemistry II	Elective	3
B519	SA519	Geology I (Physical Geology)	Elective	3
B520	SA520	Geology II (Historical Geology)	Elective	3
B521		Physical Geography	Elective	3
A522		Cultural Geography	Elective	3
E525	SA525	Principles of Accounting I	MS 110	3
E526		Principles of Accounting II	MS 112	3
E527		Intermediate Accounting	Elective	3
C533	SA533	Business Law I	MS 390	3
C534	SA534	Business Law II	MS 400	3
A535	SA535	Introduction to Data Processing	MS 318	3
A539	SA539	Principles of Management	MS 200	3
D544		Personnel Management	MS 313	3
A548	SA548	Money and Banking	Elective	3
A549	SA549	Marketing	MS 311	3
C577	SA577	Beginning French I	Elective	3
C578	SA578	Beginning French II	Elective	3
C579	SA579	Beginning German I	Elective	3
C580	SA580	Beginning German II	Elective	3
D581		Beginning Russian I	Elective	3
D582		Beginning Russian II	Elective	3
D583	SA583	Beginning Spanish I	HU 130	3
D584	SA584	Beginning Spanish II	HU 135	3
C585	SA585	Beginning Italian I	Elective	3
C586	SA586	Beginning Italian II	Elective	3
D440	SA440	Calculus I	MA 220	3
D441	SA441	Calculus II	Elective	3
A810	SA810	Technical Math I	MA 105	3
A811	SA811	Technical Math II	MA 111	3
A820	SA820	Technical Writing	HU 221	2
A859		Slide Rule	Elective	1
D517	SB517	College Physics I	PS 103	3
D518	SB518	College Physics II	Elective	3
E700		General Aeronautics	AS 100	4

TRANSFER OF ACADEMIC CREDIT FROM OTHER INSTITUTIONS

1. Basis for Acceptance: In all cases when students present a transcript from another college or university for evaluation of the courses completed and the credit earned, the Dean, Registration and Records follows the current guide, "REPORT OF CREDIT GIVEN BY EDUCATIONAL INSTITUTIONS", published by the American Association of Collegiate Registrars and Admissions Officers. The guide lists all not-for-profit educational institutions in the country and indicates the following: (1) accreditation status by one of the recognized regional accrediting associations; (2) highest level of college work offered by the institution; and (3) the acceptance of the credit by the reporting institution and the association.

   Institutions that are regionally accredited enjoy complete acceptance of credits among member institutions. Embry-Riddle subscribes to that activity and philosophy. In the case of institutions that are not accredited, Embry-Riddle generally follows the guidance of the Association in acceptance of credit, which can range from acceptance at face value to non-acceptance of the credit on a transfer basis.

   Proprietary schools or for profit institutions which do not appear in the "REPORT OF CREDIT GIVEN BY EDUCATIONAL INSTITUTIONS", do not, as a general rule, enjoy the privilege of automatic acceptance of transfer credit on the basis of a transcript. Educational experience gained through this system is evaluated on the basis of other credit standards in force for the evaluation of life experience and training. (See VA-S/P-07.)

2. Grades Acceptable: In all cases, course work from whatever source must carry a grade A, B, or C, or its equivalent, including "P" in a Pass/Fail system, to be acceptable in transfer. Course work that appears on a transcript from another institution with a grade of D or F or their equivalent, or some other non-passing, non-credit grade, will not be accepted for credit.

   In the case where a student has a "D" in the first half of a year sequential course and a "C" or better in the second half of the course, the University will not accept the first half, but will waive the requirement for the first half. The student will be required to make up the hours thus waived in the elective area. Example: Freshman English is a two semester sequential course in which the student received a "D" in the first semester and a "C" or better in the second. We will waive our requirement of HU 120, or indicate that the student has completed his English requirement but he will receive only 3 hours credit for the second half of the one-year course in which he received a grade of "C" or better. He must have an additional 3 hours of elective in order to meet the total hour requirement for the degree. (See VA-S/P-06.)

3. Undistributed Elective Credit: When students present transcripts from other institutions, Embry-Riddle indicates to the student that as long as the institution is regionally accredited, his transfer credit for which he has a grade of "C" or better will be accepted. If some of the course work cannot be applied to the student's degree program, it will be accepted as credit in excess of degree requirements and reflected as undistributed elective credit.

All transferable credit can thus be readily evaluated in the event the student seeks an evaluation in more than one degree program (see VA-S/P-07).

4. Acceptance on Probation: A student who was either "On Probation", "Suspended" or "Dismissed" from the last institution attended, will be accepted in probationary status by Embry-Riddle upon approval of the Dean of the College in which the student is admitted.

5. Quarter Hours and Semester Hours: Quarter hours must be converted to trimester hours in determining hours of credit transferred (3 quarter hours = 2 trimester hours). Semester hours are the equivalent of trimester hours and transfer on a one-for-one basis. It is necessary that the credit hour basis of each transcript be ascertained. If the transcript does not clearly identify whether credit hours are in terms of quarter, semester or trimester hours, the institution should be contacted to verify the type of hours involved.

6. Equivalent Courses: If there is doubt whether a specific course is the equivalent of one of E-RAU's courses, the Bulletin of the school should be reviewed by the Division Chairman to determine the content of the course for which credit is requested. If the University does not have the Bulletin on file, the student should be requested to provide a copy.

7. Mathematics Equivalents: If one college level algebra course (or algebra/trig.) has been completed with a transferable grade, this is transferred for MA 111.

8. Credits with Insufficient Hours: If a student is granted transfer credit for a required course, but has less than the number of credit hours that Embry-Riddle requires for that course, the additional hour or hours must be made up in electives.

9. Level of Academic Credit: Transfer credit is accepted at the level it was offered. That is to say that if an institution offers a course as a freshman course (100 level) it will be accepted at that level. In cases where a student has previously completed a course similar to one that Embry-Riddle offers as upper level as a lower level course, the student may present documentation to the appropriate Division Chairman for evaluation. The Division Chairman will determine the level at which the course will be transferred, (see VA-S/P-22).

10. Flight Courses: Flight courses recorded on the transcript of another accredited institution are granted transfer credit in the same manner as other college work, except that the credit value is in accordance with the credit value assigned for those courses.

CREDIT FOR MILITARY SERVICE SCHOOL

1. General: The recommendations of the American Council on Education as presented in the current "Guide to the Evaluation of Educational Experience in the Armed Services" are accepted for the award of academic credit based on successful completion of those military service shcools included in the "Guide" (see VA-C/E-13).

2. Technical Courses: In some cases the ACE "Guide" does not list specific credit recommendations for military technical courses. However, in view of the nature of our curriculum and as a result of an evaluation of a number of these programs the University does grant credit in certain cases. The following are examples:

   a. Fort Rucker, Ft. Wolters, Ft. Benning, Ft. Eustis, and Hunter/Stewart Academic Instructor Methods of Instruction training program (not flight) graduates are granted credit for HU 220 (3 credit hours).

   b. Military Weather School graduates are granted credit for AS-201 (3 credit hours).

   c. Military jet mechanics are granted credit for AS 311 (3 credit hours).

   d. Military reciprocating engine mechanics are granted credit for AS 203 (3 credit hours).

   e. Infantry Training, Doctrine, Evaluation, and Performance (TRADEP) course graduates are granted credit for HU 220 (3 credit hours).

   f. Graduates of the Naval Technical Training Command course, "Instructor Base Course" course number A-012-0011, are granted credit for HU 220 (3 credit hours).

3. Aviation Safety Officer Courses:

   a. Many military officers have completed the University of Southern California aviation safety course. The credit appears on a USC transcript and is transferrable in the same manner as credit from any accredited institution. Specific USC courses included in the course are accepted in transfer as follows:

   ASM 446, Aerospace Physiology - 2 credit hours for AS 307
   ASM 201, Survey of Aerospace Engineering - 3 credit hours for AS 309

   Electives
   ASM 443, Aviation Psychology - 2 credit hours
   ASM 421, Acft. Accident Investigation and Prevention - 3 credit hours
   ASM 475, Aerospace Safety Management - 3 credit hours
   ASM 203, Survey of Aerospace Structures - 2 credit hours
   ASM 201, Survey of Aerospace Engineering - 1 credit hour

   b. Graduates of the ten week U.S. Army Aviation Safety Officer Course (7K-F-12) conducted at Fort Rucker, Alabama will be granted credit as follows:

SF 219, Aviation Psychology - 2 credit hours
SF 306, Aviation Physiology - 2 credit hours
SF 250, Safety Program Development - 3 credit hours
SF 330, Aircraft Accident Investigation - 3 credit hours

4. U.S. Army Command and General Staff Officer Course: A total of 30 credit hours will be granted to graduates of this program. These are distributed as follows:

SS 110, World History - 3 credit hours
SS 120, American History - 3 credit hours
SS 320, American National Government - 3 credit hours
SS 330, Current History - 3 credit hours
SS 340, American Foreign Policy - 3 credit hours
MS 200, Principles of Management- 3 credit hours
MS 305, Management Analysis and Concepts - 3 credit hours
MS 316, Psychology of Management - 3 credit hours
Social Science/Management Science electives - 6 credit hours

5. U.S. Army Repair Courses: Credit will be granted as indicated to students who have successfully completed the listed U.S. Army Repair courses.

U8 Airplane Repair	-	AS 203, AS 210 (6 hrs.)
U21 Airplane Repair	-	AS 211, AS 210 (6 hrs.)
CH54 Helicopter Repair	-	AS 311, AS 210 (6 hrs.)
Aircraft Turbine Engine Repair	-	AS 311 (3 hrs.)
CH47 Helicopter Repair	-	AS 311, AS 210 (6 hrs.)
U-1A Airplane Repair	-	AS 203, AS 210 (6 hrs.)
OV-1 Airplane Repair	-	AS 311, AS 210 (6 hrs.)
AH-1G Helicopter Repair	-	AS 311, AS 210 (6 hrs.)
Aircraft Reciprocating Engine Repair	-	AS 203 (3 hrs.)
CH-34 Helicopter Repair	-	AS 203, AS 210 (6 hrs.)
UH-1 Repair	-	AS 311, AS 210 (6 hrs.)
OH-6 Helicopter Repair	-	AS 311, AS 210 (6 hrs.)

6. U.S. Army Officer Advanced Courses:

a. In conjunction with some Officer Advanced Courses, an Automatic Data Processing Systems block of instruction is available to students. When students provide documentation of successful completion of the Automatic Data Processing Systems block during the course, credit will be granted for CT-209 (3 credit hours).

b. Graduates of an Officer Advanced Course will be granted credit for HU 220 (3 credit hours).

c. Graduates of an Officer Advanced Course after successful completion of the staff study and related work may be granted credit for HU 221 (3 credit hours) upon evaluation and approval of the Chairman, Humanities/Social Science Division.

7. Naval Technical Training Command Aircraft Maintenance Officer Course.

Graduates who successfully complete this course (Class OC-4 D-2010, Phase III, Units 1 and 2) will be granted credit for CT 209 (3 credit hours).

8. USAF Air Command and Staff College Course: Graduate students who have successfully completed this course in residence will be granted graduate credit for MS 665, Public Administration (3 credit hours) toward either the Master of Aeronautical Science or Master of Aviation Management degree. In addition, graduates may be granted up to 3 elective credit hours if the Air Command and Staff College thesis is submitted for evaluation and is determined to be acceptable toward one of our graduate degrees.

9. USAF Air Command and Staff College Correspondence Course: Students who have successfully completed this program will be granted credit as follows:

MS Upper Level Electives (8 credit hours)
SS Upper Level Electives (7 credit hours)

10. USAF Squadron Officer School: Students who have successfully completed this program in residence at Maxwell AFB, Alabama subsequent to September 1970 will be granted the following credit:

SS 210, Introduction to Sociology (3 credit hours)
SS 340, American Foreign Policy (3 credit hours)
MS Upper Level Electives (6 credit hours)

11. USAF Senior Noncommissioned Officer Academy: Students who have successfully completed this program in residence at Gunter AFS, Alabama subsequent to January 1973 will be granted the following credit:

HU 220, Communications III (3 credit hours)
SS Upper Level Electives (3 credit hours)
MS Upper Level Electives (4 credit hours)

12. General Military Course (AFROTC): Credit on the basis of active military service for the Air Force ROTC General Military Course is discussed in VA-C/E-06.

CREDIT ON THE BASIS OF FLIGHT AND FLIGHT RELATED EXPERIENCE

1. Pilot Flight Experience: Credit is granted as shown below on the basis of documentation of satisfactory completion of the required training and possession of appropriate F.A.A. certificates and ratings:

	ARMY R/W	ARMY F/W & R/W	ARMY F/W ONLY	AIR CARRIER USAF/NAVY	OTHER*
FA 102		2	2	2	
FA 103		2	2	2	Requires flight evaluation (except E-RAU Flight
FA 203		2	2	2	Technology) (See VA-C/E-08)
FA 204		2	2	2	
FA 305		2	2	2	
FA 340		1 (1)	1 (1)	1 (1)	(See VA-C/E-09)
FA 412			1	1	
FA 499	1	1			
AS 100	4	4	4	4	2 (Private Pilot written)
AS 102	3	3	3	3	1.5 (Commercial Pilot)
AS 103	3	3	3	3	1.5 (Commercial Pilot)
AS 201	3	3	3	3	1.5 (Instrument Pilot)
AS 202	3 (4)	3	3	3	1.5 (Instrument Pilot)
AS 203	3	3	3	3	
AS 210	3	3	3	3	
AS 307				2	
AS 309	0	0 (5)	0 (5)	3	
AS 310				3 (2)	
AS 311	3	3	3 (3)	3 (3)	
AS 408/409	3	3	3	3	
AS 410				3	Air Carrier Only
Max. Total	29	40	40	51	8 plus flight

*See VA-C/E-07 for transfer credit based on F.A.A. ratings and VA-C/E-08 for credit based on E-RAU Flight Technology courses.

NOTES: (See preceding table):

1) Credit only if military multi-engine qualified in aircraft comparable to or exceeding E-RAU equipment. (See VA-C/E-09.)

2) Credit only if qualified in F.A.A. or military certified transport category aircraft.

3) Credit only if turbine engine trained.

4) Credit only if he possesses Rotorcraft-Helicopter Standard Instrument rating or on basis of fixed-wing instrument exam successfully completed.

5) When an Army Aviator presents a DD 295 which indicates he has successfully completed the "Officer/Warrant Fixed-Wing Aviator Course", he will be granted credit for AS 309, Basic Aerodynamics.

a. Credit for Embry-Riddle Flight Technology flight and flight related courses is granted on the basis of grades entered on the Embry-Riddle transcript. AS courses as indicated under "Other" as well as AS 404 or AS 406 receive half credit on completion of the Flight Technology CFI or Instrument Instructor ground school.

b. The award of credit to military and airline pilots is discussed in VA-C/E-10.

c. Military rotary wing pilots who have obtained fixed wing certification from non-military sources must be referred to the Flight Technology Division for evaluation. The Flight Technology Division will then provide a statement indicating the courses for which credit is authorized. Under the Aeronautical Studies program, an applicant with Commercial and Instrument Rotary Wing Certificates is awarded 10 hours for flight. Those with only Commercial Rotary Wing are awarded 8 credits for flight.

d. Flight courses recorded on the transcript of an accredited college are granted transfer credit in the same manner as for other college transfer credit, except that the credit value is in accordance with the credit value assigned for those courses.

2. Flight Engineering Certification: Those individuals requesting academic credit based on Flight Engineer experience will be required to complete the Flight Engineer Student Data Sheet. (See VA-C/E-11.)

a. Credit for courses shown below is normally awarded to those individuals holding an F.A.A. Flight Engineer Certificate (Turbine Engine):

AS 210	A/C Systems and Components	3 credits
AS 310	Aircraft Performance	3 credits
AS 311	Aircraft Engines - Turbine	3 credits
	Total	9 credits

b. Credit for courses shown below is normally awarded to those holding an F.A.A. Flight Engineer Certificate (Reciprocating Engine):

AS 203	Aircraft Engines-Reciprocating	3 credits
AS 210	A/C Systems and Components	3 credits
AS 310	Aircraft Performance	3 credits
	Total	9 credits

c. Credit for courses shown below is normally awarded to those holding an F.A.A. Flight Engineer Certificate (Turbine and Reciprocating Engine):

AS 203	Aircraft Engines - Reciprocating	3 credits
AS 210	A/C Systems and Components	3 credits
AS 310	Aircraft Performance	3 credits
AS 311	Aircraft Engines - Turbine	3 credits
	Total	12 credits

3. Helicopter Instructor Certification: On the basis of possession of the F.A.A. Certificate for Helicopter Instructor; one (1) credit for FA 499, Special Studies in Flight.

4. Graduate Credit: On the basis of F.A.A. pilot certification listed, graduate credit applicable only toward the Master of Aeronautical Science degree will be granted as indicated:

   a. Airline Transport Pilot Certificate - 2 credit hours

   b. Type Rating; Reciprocating Powered Aircraft - 1 credit hour

   c. Type Rating; Turbine Powered Aircraft - 1 credit hour

5. Flight Experience Evaluation Committee: The Flight Experience Evaluation Committee evaluates requests for advanced standing or by-pass credit based upon previous experience in those cases not specifically covered by other standards/procedures. The Committee makes recommendations concerning award of academic credit for flight to the Dean, Aviation Technology who will determine the credit that will be granted.

INDEX

EVALUATION WORKSHEET EFFECTIVE SPRING 1978

THIS IS ONLY A GUIDE FOR YOUR USE. FOR COMPLETE DEGREE REQUIREMENTS SEE THE 1978-80 CATALOG.

ASSOCIATE IN GENERAL AERONAUTICS
EMBRY-RIDDLE AERONAUTICAL UNIVERSITY

NAME _____ DATE _____

HUMANITIES/SOC.SCI. (18CR.HRS.)	HRS. REQ.	CR. HRS.	HRS. BAS.
HU 120 Communications I	3		
HU 121 Communications II	3		
HU 221 Tech. Report Writing	3		
HU ( ) Elective	3		
SS 210/220 Sociology/Psychology	3		
SS ( ) Elective	3		
AERONAUTICAL SCIENCE (7 CR. HRS.)			
AS 100 Found. of Aeronautics	4		
AS 101 History of Aviation	3		
AERONAUTICAL SCIENCE ELECTIVES (6 CR.HRS.)			
ECONOMICS/MANAGEMENT (9 CR.HRS.)			
EC ( ) Elective	3		
MS 200 Principles of Management	3		
MS 305 Mgt. Analysis & Concepts	3		
COMPUTER/MATH/PHYSICAL SCIENCE (9 CR.HRS.)			
CT 205 Intro. to Comp. in Avia.	3		
MA 111 College Math for Avia. I	3		
PS ( ) Elective	3		
GENERAL ELECTIVES			
MILITARY OCCUPATIONAL SPECIALITY* (16 CR.HRS.)			

*When recommended by the American Council on Education. If total recommended by ACE is less than 16 credit hours, the balance must be taken in aviation oriented courses.

MINIMUM TOTAL OF 65 TRIMESTER HOURS REQUIRED FOR THIS DEGREE.

NOTICE: You have one month from the date of this evaluation or from the date of matriculation to ERAU campus to notify this office if you disagree with the evaluation. It is assumed that the evaluation is final and no more advanced credit will be granted during the remainder of your academic career at ERAU.

ELECTIVES IN EXCESS OF MINIMUM DEGREE REQUIREMENTS

TRANSFER CREDIT ACCEPTED:

A. _____

B. _____

C. _____

D. _____

TOTAL _____

ADVANCED STANDING GRANTED:

E. EXPERIENCE _____

F. COLLEGE LEVEL EXAMS _____

G. USAFI COURSES & EXAMS _____

H. FORMAL SERVICE SCHOOLS _____

I. OTHER _____ _____

TOTAL _____

TOTAL _____

_____
(SIGNATURE OF EVALUATOR)

"UNOFFICIAL EVALUATION"
"COUNSELING PURPOSES ONLY"

EVALUATION WORKSHEET 1978-80 CATALOG

THIS IS ONLY A GUIDE FOR YOUR USE. FOR COMPLETE DEGREE REQUIREMENTS SEE THE 1978-80 CATALOG.

ASSOCIATE IN SCIENCE IN AVIATION MAINTENANCE MANAGEMENT
EMBRY-RIDDLE AERONAUTICAL UNIVERSITY

NAME _____ DATE _____

HUMANITIES/SOC.SCI. (21 CR.HRS.)		REQ. CR. HRS.	CR. HRS.	REQ. SAT.
HU 120	Communications I	3		
HU 121	Communications II	3		
HU 220	Communications III	3		
HU 221	Tech. Report Writing	3		
HU 250	Intro to Logic	3		
SS 110/120	Worl/Amer. History	3		
SS 220	Intro to Psychology	3		
COMPUTER/MATH/PHYSICAL SCIENCE (18 CR.HRS.)				
CT 209	Intro to Computers	3		
MA 111	Coll Math for Aviation I	3		
MA 112	Coll Math for Aciation II	3		
MA 211	Statistics w/Avia. App.	3		
PS 101	Basic Chemistry	3		
PS 103	Basic Physics	3		
ECONOMICS/BEHAV.SCI. (27 CR.HRS.)				
EC 110	Macroeconomics	3		
EC 210	Microeconomics	3		
EC 310	Labor Economics	3		
MS 110	Accounting I	3		
MS 112	Accounting II	3		
MS 205	American Business Entrp.	3		
MS 305	Mgt. Anal. & Concepts	3		
MS 313	Personnel Management	3		
MS 390	Business Law I	3		

AVIATION MAINTENANCE TECHNOLOGY REQUIREMENTS

First five trimesters of the on campus Aviation Maintenance Technology curriculum.

OR

USAF European Program: Aviation Maintenance Technology Curriculum.

OR

Possession of a valid FAA Airframe and Powerplant Mechanics License. #

AVIONICS REQUIREMENTS

AV 315	A/C Comm & Nav Syst.	3		
AV 316	A/C Pulse Systems	3		
AV 317	A/C Rad.&Flt. Cont. Syst.	3		
AV 340/EL 310	AV. Equip T.S. & Repair Lab/Adv. Elect. T.S. Inst. & Techn	2		
EL 101	Bas. Conc. & DC Cir & Lab	4		
EL 102	Fund. of AC & AC Cir. Anl.	4		
EL 103	Vac. tube & Semi-Cond Fd.	4		
EL 104	Bas. Elec. Cir. & Sys.	4		
EL 105	Basic Rad-Tel Theory & Op	3		
EL 205	Elec. Dig. Fund & Circ.	3		
EL 206	Adv. Radiotele. Equip.	3		

THIS DEGREE REQUIRES THE COMPLETION OF THE AVIATION MAINTENANCE TECHNOLOGY CURRICULUM OR THE AVIONICS CURRICULUM PLUS 66 CREDIT HOURS.

ELECTIVES IN EXCESS OF MINIMUM DEGREE REQUIREMENTS

TRANSFER CREDIT ACCEPTED:

A. _____
B. _____
C. _____
D. _____

TOTAL _____

ADVANCED STANDING GRANTED:

E. EXPERIENCE _____
F. COLLEGE LEVEL EXAMS _____
G. USAFI COURSES & EXAMS _____
H. FORMAL SERVICE SCHOOLS _____
I. OTHER _____ _____

TOTAL _____

TOTAL _____

NOTICE: You have one month from the date of this evaluation or from the date of matriculation on the ERAU campus to notify this office if you disagree with the evaluation. It is assumed that the evaluation is final and no more advanced credit will be granted during the remainder of your academic career at ERAU.

Signature of Evaluator

"UNOFFICIAL EVALUATION"
"COUNSELING PURPOSES ONLY"

EVALUATION WORKSHEET

1976-1978 CATALOG

This is only a guide for your use. For complete degree requirements see the 1976-77 catalog.

In completing the following degree requirements a minimum of 40 credit hours must be in Junior-Senior (300-400) level courses

BACHELOR/ASSOCIATE PROFESSIONAL AERONAUTICS
EMBRY-RIDDLE AERONAUTICAL UNIVERSITY

NAME _____ DATE _____

PROFESSIONAL STUDIES	Assoc. HRS. REQ.	Bachelor HRS.		REQ.		CR. HRS.	HRS. BAS.
Aero. Tech. (Lower Level)	18	18	22	53	64		
Aero. Tech. (Upper Level)	0	0	10	15	20		
AERONAUTICAL SCIENCE	6	12	12	9	9		
AS 101 History of Aviation	3	3	3	3	3		
AS 303 Government & Aviation	3	3	3	3	3		
AS 405 Aviation Law	0	3	3	3	3		
AS 409 Aviation Safety	0	3	3	0	0		
COMMUNICATION SKILLS	6	9	9	6	6		
English Composition & Rhetoric, Composition & Literature, Speech, and Creative Writing Courses are Acceptable. At least one course must be in English Composition.							
HU 221 Technical Report Writing	3	3	3	3	3		
HUMANITIES/SOCIAL SCIENCES	3	9	9	6	6		
Sociology, Psychology, History, Philosophy, Political Science, Music, Art, and Literature courses are acceptable. A maximum of SIX credit hours may be in any one of these disciplines.							
HU/SS (Upper Division)	0	6	3	3	0		
ECONOMICS/MANAGEMENT SCIENCES	9	15	15	15	15		
EC 110 Macroeconomics	3	3	3	3	3		
EC 210 Microeconomics		3	3	3	3		
MS 110 Accounting I	0	3	3	3	3		
MS 200 Principles of Management	3	3	3	3	3		
MS 305 Mgmt. Analysis & Concepts	3	3	3	3	3		
COMPUTER TECHNOLOGY/MATH	6	9	9	9	9		
CT 205/209 Intro. to Comp. Appl. in Avia. or Intro. to Computers	3	3	3	3	3		
MA 111 College Math. for Aviation I	3	3	3	3	3		
MA 112/211 College Math for Avia.II or Statistics w/Avia. Applications	0	3	3	3	3		
PHYSICAL AND LIFE SCIENCES	3	6	6	6	6		
Physical Science, Chemistry, Physics, Earth Science, Astronomy, Geology, Biology, Zoology, and Physiology courses are acceptable.							
SPECIFIED ELECTIVES TO BE CHOSEN FROM	2	27	19	15	11		
AS 307, 308, 310, 401, 409, 410, 412, MS 327, 331 405, 408, 410, 415, 425.							
GENERAL ELECTIVES	9	15	12	9	0		

NOTICE: You have one month from the date of this evaluation or from the date of matriculation on the ERAU campus to notify this office if you disagree with the evaluation. It is assumed that the evaluation is final and no more advanced credit will be granted during the remainder of your academic career at ERAU.

NOTE: A student will not be granted credit toward this degree for any of the courses listed in the curriculum on the basis of Professional Qualification. This credit is included in the Aeronautical Technology credit granted on the basis of Professional Qualification.

AREA OF CONCENTRATION

ELECTIVES IN EXCESS OF MINIMUM DEGREE REQUIREMENTS

TRANSFER CREDIT ACCEPTED

A. _____
B. _____
C. _____
D. _____
TOTAL _____

ADVANCED STANDING GRANTED

E. Experience _____
F. College Level Exams. _____
G. USAFI Courses & Exams _____
H. Formal Service Schools _____
I. Other _____
TOTAL _____

TOTAL _____

MINIMUM TOTAL OF 65 TRIMESTER HOURS REQUIRED FOR THE ASSOCIATE DEGREE
REQUIRED FOR THE BACHELOR

"UNOFFICIAL EVALUATION"
"COUNSELING PURPOSES ONLY"

_____
(ANALYST)

VE-R

EVALUATION WORKSHEET

1976/80 CATALOG

This is only a guide for your use. For complete graduation requirements see the 1976/80 catalog.

In completing the following degree requirements a minimum of 40 credit hours must be in Junior-Senior (300-400) level courses.

BACHELOR OF SCIENCE IN AVIATION MAINTENANCE MANAGEMENT
EMBRY-RIDDLE AERONAUTICAL UNIVERSITY

NAME _____ DATE _____

HUMANITIES/SOC.SCI. (24 CR.HRS.)	HRS. REQ.	CR. HRS.	HRS. DEF.
HU 120 Communications I	3		
HU 121 Communications II	3		
HU 220 Communications III	3		
HU 221 Tech. Report Writing	3		
HU 250 Intro. to Logic	3		
HI 110/120 World/Amer. History	3		
SS 210 Intro. to Sociology	3		
SS 220 Intro. to Psychology	3		

MANAGEMENT SCIENCE (27 CR.HRS.)			
MG 110 Accounting I	3		
MG 112 Accounting II	3		
MG 205 American Business Entp.	3		
MG 305 Mgt. Analysis & Concepts	3		
MG 313 Personnel Management	3		
MG 316 Psychology of Mgt.	3		
MG 390 Business Law I	3		
MG 401 Management Plan & Control	3		
MG 420 Industrial Management	3		

ECONOMICS (9 CR.HRS.)			
EC 110 Macroeconomics	3		
EC 210 Microeconomics	3		
EC 310 Labor Economics	3		

COMPUTER/MATH/PHYSICAL SCIENCE (18 CR.HRS.)			
CT 209 Intro. to Computers	3		
MA 111 College Math for Avia. I	3		
MA 112 College Math for Avia. II	3		
MA 211 Statistics w/Avia. App.	3		
PS 101 Basic Chemistry	3		
PS 201 Basic Physics	3		

AERONAUTICAL SCIENCE (3 CR.HRS.)			
AS 302 Govt. & Aviation	3		

MANAGEMENT/ECONOMICS ELECTIVES (6 CR.HRS.)

(From: MG 322,331,405, 410,415,421,or EC 420)

SOCIAL SCIENCE ELEC. (3 CR.HRS.)

HUMANITIES ELECT (300-400 LEVEL) (3 CR.HRS.)

GENERAL ELEC. (300-400 LEVEL) (9 CR.HRS.)

THIS DEGREE REQUIRES THE COMPLETION OF THE AVIATION MAINTENANCE TECHNOLOGY CURRICULUM OR THE AVIONICS CURRICULUM PLUS 102 CREDIT HOURS.

"UNOFFICIAL EVALUATION"
"COUNSELING PURPOSES ONLY"

AVIATION MAINTENANCE TECHNOLOGY REQUIREMENTS

FIRST FIVE TRIMESTERS OF THE DB CAMPUS AVIATION MAINTENANCE TECHNOLOGY CURRICULUM		
OR		
USAF EUROPEAN PROGRAM: AVIATION MAINTENANCE TECHNOLOGY CURRICULUM		
OR		
POSSESSION OF A VALID FAA AIRFRAME AND POWERPLANT MECHANICS LICENSE		

AVIONICS REQUIREMENTS

AVIONICS (36 CR.HRS.)

AV 315 A/C Comm. & Nav. Systems	3		
AV 316 A/C Pulse Systems	3		
AV 317 A/C Radar & Flt. Control Systems	3		
AV 340/EL 310 AV. Equip. Troubleshooting & Repair Lab/Adv. Elect. Troubleshooting Instruments & Techniques	2		
EL 201 Bas. Conc. & DC Cir & Lab	4		
EL 202 Fund. of AC & AC Cir. Anl.	4		
EL 203 Vacuum Tube & Semi-Conductor Fund.	4		
EL 204 Bas. Elec. Cir. & Sys.	4		
EL 205 Basic Radio-Telephone Theory & Op.	3		
EL 207 Elec. Sig. Fund & Circ.	3		
EL 206 Adv. Radiotele. Equip.	3		

ELECTIVES IN EXCESS OF MINIMUM DEGREE REQUIREMENTS

TRANSFER CREDIT ACCEPTED:

A. _____
B. _____
C. _____
D. _____

TOTAL _____

ADVANCED STANDING GRANTED:

E. Experience _____
F. College Level Exams _____
G. USAFI Courses & Exams _____
H. Formal Service Schools _____
I. Other _____

TOTAL _____

TOTAL _____

(SIGNATURE OF EVALUATOR)

NOTICE: You have one month from the date of this evaluation or from the date of matriculation on the ERAU campus to notify this office if you disagree with the evaluation. It is assumed that the evaluation is final and no more advanced credit will be granted during the remainder of your academic career at ERAU.

EVALUATION WORKSHEET 1978-80 CATALOG

This is only a guide for your use. For complete degree requirements, see the 1978-80 catalog.

ASSOCIATE IN SCIENCE IN AVIONICS MAINTENANCE TECHNOLOGY
EMBRY-RIDDLE AERONAUTICAL UNIVERSITY

NAME _____ DATE _____

HUMANITIES/SOC.SCI. (9 CR.HRS.)		HRS. REQ.	CR. HRS.	HRS. BAS.
HU 120	Communications I	3		
HU 121	Communications II	3		
SS 220	Intro. to Psychology	3		

ECONOMICS/MANAGEMENT SCIENCE (12 CR.HRS.)				
EC 110	Macroeconomics	3		
MS 110	Accounting I	3		
MS 205	American Business Enterp.	3		
MS 305	Management Anal. & Conc.	3		

COMPUTER/MATH/PHYSICAL SCIENCE (12 CR.HRS.)				
CT 209	Intro. to Computers	3		
MA 111	College Math for Avia. I	3		
MA 112	College Math for Avia. II	3		
PS 103	Basic Physics	3		

AVIONICS (36 CR.HRS.)				
AV 315	A/C Comm. & Nav. Systems	3		
AV 316	A/C Pulse Systems	3		
AV 317	A/C Radar & Flt. Control Systems	3		
AV 340/EL 310	AV. Equip. Troubleshooting & Repair Lab/Adv. Elect. Troubleshooting Instruments & Techniques	2		
EL 101	Bas. Conc. & DC Cir & Lab	4		
EL 102	Fund. of AC & AC Cir. Anl.	4		
EL 103	Vacuum Tube & Semi-Conductor Fund.	4		
EL 104	Bas. Elec. Cir. & Sys.	4		
EL 105	Basic Radio-Telephone Theory & Op.	3		
EL 205	Elec. Dig. Fund & Circ.	3		
EL 206	Adv. Radiotele. Equip.	3		

NOTICE: You have one month from the date of this evaluation or from the date of matriculation on the ERAU campus to notify this office if you disagree with the evaluation. It is assumed that the evaluation is final and no more advanced credit will be granted during the remainder of your academic career at ERAU.

AERONAUTICAL SCIENCE (3 CR.HRS.)		HRS. REQ.	CR. HRS.	HRS. BAS.
AS 101	History of Aviation	3		

ELECTIVES IN EXCESS OF MINIMUM DEGREE REQUIREMENTS

_____

_____

_____

_____

_____

_____

TRANSFER CREDIT ACCEPTED:

A. _____

B. _____

C. _____

D. _____

TOTAL _____

ADVANCED STANDING GRANTED:

E. Experience _____

F. College Level Exams _____

G. USAFI Courses & Exams _____

H. Formal Service Schools _____

I. Other _____

TOTAL _____

TOTAL _____

_____
(SIGNATURE OF EVALUATOR)

MINIMUM TOTAL OF 72 TRIMESTER HOURS REQUIRED FOR THIS DEGREE

"UNOFFICIAL EVALUATION"
"COUNSELING PURPOSES ONLY"

EVALUATION WORKSHEET

1978-80 CATALOG

This is only a guide for your use. For complete graduation requirements, see the 1978-80 catalog.

ASSOCIATE IN SCIENCE IN AERONAUTICAL STUDIES
EMBRY-RIDDLE AERONAUTICAL UNIVERSITY

NAME _____ DATE _____

AERO. SCIENCE (24 CR.HRS.)		HRS. REQ.	CR. HRS.	HRS. BAS.
AS 100	Found. of Aeronautics	4		
AS 101	History of Aviation	3		
AS 102	Navigation I	3		
AS 103	Flight Rules & Regs.	3		
AS 201	Meteorology	3		
AS 211	A/C Eng. & Systems	3		
AS 303	Government & Aviation	3		
AS 307	Flight Physiology	2		
HUMANITIES/SOCIAL SCIENCE (21 CR.HRS.)				
HU 120	Communications I	3		
HU 121	Communications II	3		
HU 220	Communications III	3		
HU 221	Tech. Report Writing	3		
HU 250/340	Logic/Philosophy	3		
SS 110/120	World/Amer. History	3		
SS 220	Intro. to Psychology	3		
ECONOMICS/MANAGEMENT (15 CR.HRS.)				
EC 110	Macroeconomics	3		
EC 210	Microeconomics	3		
MS 110	Accounting I	3		
MS 205	American Business Enterp.	3		
MS 305	Mgt. Anal. & Concepts	3		
COMPUTER/MATH/PHYSICAL SCIENCE (15 CR.HRS.)				
CT 209	Intro to Computers	3		
MA 111	College Math for Avia. I	3		
MA 112	College Math for Avia. II	3		
PS 101	Basic Chemistry	3		
PS 103	Basic Physics	3		

(SIGNATURE OF EVALUATOR)

"UNOFFICIAL EVALUATION"
"COUNSELING PURPOSES ONLY"

ELECTIVES IN EXCESS OF MINIMUM DEGREE REQUIREMENTS

TRANSFER CREDITS ACCEPTED:

A. _____

B. _____

C. _____

D. _____

TOTAL _____

ADVANCED STANDING GRANTED:

E. Experience _____

F. College Level Exams _____

G. USAFI Courses & Exams _____

H. Formal Service Schools _____

I. Other _____ _____

TOTAL _____

TOTAL _____

NOTICE: You have one month from the date of this evaluation or from the date of matriculation to ERAU campus to notify this office if you disagree with the evaluation. It is assumed that the evaluation is final and no more advanced credit will be granted during the remainder of your academic career at ERAU.

MINIMUM TOTAL OF 75 TRIMESTER HOURS REQUIRED FOR THIS DEGREE.

1978-80 CATALOG
BACHELOR OF SCIENCE IN AERONAUTICAL STUDIES

AREA OF CONCENTRATION: AVIATION MANAGEMENT, AIR TRANSPORTATION
AIRPORT MANAGEMENT, COMPUTER TECHNOLOGY

NAME_____

DATE_____

AREA OF CONCENTRATION_____

NOTICE: YOU HAVE ONE MONTH FROM THE DATE OF MATRICULATION TO EMAU CAMPUS OR FROM THE DATE OF THIS EVALUATION TO NOTIFY THIS OFFICE IF YOU DISAGREE WITH IT. IT IS ASSUMED THAT THE EVALUATION IS FINAL AND NO MORE ADVANCED CREDIT WILL BE GRANTED DURING THE REMAINDER OF YOUR ACADEMIC CAREER AT EMAU.

AERONAUTICAL SCIENCE (32 CR.SEM.)	SEM. HRS.	CR. HRS.	SEM. HRS.
AS 100 Found. of Aeronautics	4		
AS 101 History of Aviation	3		
AS 102 Navigation I	3		
AS 103 Flight Rules and Regulations	3		
AS 201 Meteorology	3		
*AS 203/211 A/C Eng Recip or A/C Eng & Syst.	3		
AS 303 Government & Aviation	3		
AS 307 Flight Physiology	3		
AS 405 Aviation Law	3		
AS 408/409 Fit or Avia. Safety	3		

HUMANITIES/SOCIAL SCIENCE (21 CR.SEM.)			
HU 120 Communications I	3		
HU 121 Communications II	3		
HU 220 Communications III	3		
HU 221 Technical Report Writing	3		
HU 250/140 Logic or Philosophy	3		
SS 110/120 World or American History	3		
SS 220 Intro to Psychology	3		

HUMANITIES/SOCIAL SCIENCE UPPER DIVISION ELECTIVES (300-400) (6 CR.SEM.)			

MANAGEMENT/ECONOMICS (15 CR.SEM.)			
EC 110 Macroeconomics	3		
EC 210 Microeconomics	3		
MG 150 Accounting I	3		
MG 205 American Business Enterprise	3		
MG 305 Mgt. Analysis & Concepts	3		

MATH/PHYSICAL SCIENCE/COMPUTER (15 CR.SEM.)			
MA 111 College Math for Aviation I	3		
MA 112 College Math for Aviation II	3		
PS 101 Basic Chemistry	3		
PS 103 Basic Physics	3		
CT 209 Intro to Computers	3		

*REQUIRED COURSE DEFENSE IN AREA OF CONCENTRATION

"UNOFFICIAL EVALUATION"
"COUNSELING PURPOSES ONLY"

EVALUATION WORKSHEET

THIS IS ONLY A GUIDE FOR YOUR USE. FOR COMPLETE GRADUATION REQUIREMENTS SEE THE 1978-80 CATALOG.

IN COMPLETING THE FOLLOWING DEGREE REQUIREMENTS A MINIMUM OF 60 CREDIT HOURS MUST BE IN THE JUNIOR-SENIOR (300-400) LEVEL COURSES.

AVIATION MANAGEMENT (45 CR.SEM.)			
ACC/ECO/MGT/COL/MATH (45 CR.SEM.)	SEM. HRS.	CR. HRS.	SEM. HRS.
EC 310 Labor Economics	3		
MG 311 Marketing	3		
MG 313 Personnel Management	3		
MG 318 Bus. Data Processing	3		
MG 401 Management Planning & Control	3		
MG 420 Industrial Management	3		
MA 211 Statistics w/Avia. Application	3		

EC/MG ELECTIVES (300-400 LEVEL COURSES) (9 CR.SEM.)			

GENERAL ELECTIVES (15 CR.SEM.)			

AIR TRANSPORTATION (27 CR.SEM.)			
EC 310 Labor Econ.	3		
EC 420 Economics of Air Transp.	3		
MA 211 Statistics w/Avia App	3		
MG 311 Marketing	3		
MG 313 Personnel Management	3		
MG 318 Business Data Processing	3		
MG 331 Transportation Principles	3		
MG 401 Management Plan. & Control	3		
MG 410 Management of Air Cargo	3		

MANAGEMENT ELECTIVES (3 CR.SEM.) From: MG 322, 405, 408, 415, 421			

GENERAL ELECTIVES (15 CR.SEM.)			

MINIMUM TOTAL OF 132 SEMESTER HOURS REQUIRED FOR THIS DEGREE.

AIRPORT MANAGEMENT			
AERO SC/EC+OP/MGMT (30 CR.SEM.)	SEM. HRS.	CR. HRS.	SEM. HRS.
AS 401 Airport Mgmt.	3		
CO 397 Co-op Education	6		
CO 498 Co-op Education	6		
MG 313 Personnel Mgt.	3		
MG 331 Transportation Prin.	3		
MG 408 Airport Mgmt.	3		
MG 410 Mgmt. of Air Cargo	3		
MG 471/309 Small Bus Mgt/Pub Adm.	3		

GENERAL ELECTIVES (15 CR.SEM.)			

COMPUTER TECHNOLOGY			
COMPUTER/MATH/MGMT (33 CR.SEM.)			
CT 309 Fortran Programming	3		
CT 310 Cobol Programming	3		
CT 312 Assembly Language Programming	3		
CT 315 RPG II Programming	3		
CT 320 Advanced Cobol Programming	3		
CT 401 Data Struct. & Oper. Syst.	3		
CT 410 Computer Data Structures	3		
CT 420 Oper. Systems	3		
MA 222 Business Statistics	3		
MG 318 Bus Data Processing	3		
MG 319 Mgmt. Info. Systems	3		

GENERAL ELECTIVES (12 CR.SEM.)			

ELECTIVES in EXCESS OF MINIMUM DEGREE REQUIREMENTS			

TRANSFER CREDIT ACCEPTED:
A._____
B._____
C._____
D._____
TOTAL_____

ADVANCED STANDING GRANTED:
E. Experience_____
F. College Level Exams_____
G. USAFI Courses & Exams_____
H. Formal Service Schools_____
I. Other_____
TOTAL_____

TOTAL_____

SIGNATURE OF EVALUATOR

1978-80 CATALOG

BACHELOR OF SCIENCE IN AERONAUTICAL STUDIES

Area of Concentration: Flight Technology, Avionics

NAME _____

DATE _____

AREA OF CONCENTRATION _____

NOTICE: You have one month from the date of matriculation to ERAU campus or from the date of this evaluation to notify this office if you disagree with it. It is assumed that the evaluation is final and no more advanced credit will be granted during the remainder of your academic career at ERAU.

AERONAUTICAL SCIENCE (30 CR.SEM.)	REQ.	CR. ERN.	CR. BAS.
AS 100 Found. of Aeronautics	4		
AS 101 History of Aviation	3		
AS 102 Navigation I	3		
AS 103 Flight Rules and Regulations	3		
AS 201 Meteorology	3		
AS 202/211 A/C Eng Recip or A/C Eng & Syst.	3		
AS 303 Government & Aviation	3		
AS 307 Flight Physiology	2		
AS 405 Aviation Law	3		
AS 406/409 Flt Op-Rsch, Safety	3		

HUMANITIES/SOCIAL SCIENCE (21 CR.SEM.)			
HU 120 Communications I	3		
HU 121 Communications II	3		
HU 220 Communications III	3		
HU 221 Technical Report Writing	3		
HU 250/340 Logic or Philosophy	3		
SS 130/130 World or American History	3		
SS 230 Intro to Psychology	3		

HUMANITIES/SOCIAL SCIENCE UPPER DIVISION ELECTIVES (6 CR.SEM.)			

MANAGEMENT/ECONOMICS (15 CR.SEM.)			
EC 130 Macroeconomics	3		
EC 230 Microeconomics	3		
MG 110 Accounting I	3		
MG 205 American Business Enterprise	3		
MG 305 Management Analysis & Concepts	3		

MATH/PHYSICAL SCIENCE/COMPUTER (15 CR.SEM.)			
MA 111 College Math for Aviation I	3		
MA 112 College Math for Aviation II	3		
PS 103 Basic Chemistry	3		
PS 203 Basic Physics	3		
CT 209 Intro to Computers	3		

MINIMUM TOTAL OF 132 TRIMESTER HOURS REQUIRED FOR THIS DEGREE.

"UNOFFICIAL EVALUATION"
"COUNSELING PURPOSES ONLY"

EVALUATION WORKSHEET

THIS IS ONLY A GUIDE FOR YOUR USE. FOR COMPLETE GRADUATION REQUIREMENTS SEE THE 1978-80 catalog.

FLIGHT TECHNOLOGY-FIXED WING (45 CR.SEM.)	REQ.	CR. SEM.	CR. BAS.
AS 202 Navigation II	3		
AS 210 A/C Systems & Components	3		
AS 309 Basic Aerodynamics	3		
AS 310 A/C Performance	3		
AS 311 A/C Engines-Turbines	3		
*AS 404 Principles of Instruction I	3		
FA 102 Primary Flight	3		
FA 103 Basic Flight	3		
FA 203 Intermediate Flight	3		
FA 204 Advanced Flight I	3		
FA 305 Advanced Flight II	3		
FA 340/400 Multi-Engine/Flt Inst.	3		
PS 104 Applied Physics	3		

UPPER DIVISION ELECTIVES (300-400 Level) (3-6 CR.SEM.)			

GENERAL ELECTIVES (3-6 CR.SEM.)			

*Students enrolled in FA-340 are not required to take AS 404 ; but substitute 6 cr. upper division electives and 6 cr. general electives.

ACCELERATED FIXED WING (33 CR.SEM.)			
FA 102 Primary Flight	2		
FA 103 Basic Flight	2		
FA 203 Intermediate Flight	2		
FA 204 Advanced Flight I	2		
FA 305 Advanced Flight II	2		
FA 340 Multi-Engine	1		
FA 400 Certified Flight Instructor-ASEL	1		
FA 408 Certified Flight Inst. Instrument	1		
AT 115 Private Pilot Ground School	3		
AT 216 Instrument Ground School	3		
AT 317 Commercial Ground School	3		
AT 400 CFI-A Ground School	3		
AT 408 CFI-I Ground School	3		
AT 301 Avionics for Aviators	3		
AS 409 Flight Safety	3		
AS 401 Airport Del & Ops CR			
AS 410 Air Carrier Ops CR			
AS 412 Corporate Industrial Aviation	3		

ELECTIVES (300-400 LEVEL COURSES) (12 CR.SEM.)			

ROTARY WING-FLIGHT TECHNOLOGY (45 CR.SEM.)			
AERO SCIENCE/FLIGHT (28 CR.SEM.)	REQ.	CR. SEM.	CR. BAS.
AS 202 Navigation II	3		
AS 210 A/C Systems & Components	3		
AS 309 Basic Aerodynamics	3		
AS 310 A/C Performance	3		
AS 311 A/C Engines-Turbines	3		
PS 104 Applied Physics	3		
R/W Commercial Instrument	10		

UPPER DIVISION ELECTIVES (300-400 LEVEL COURSES) (9 CR.SEM.)			

GENERAL ELECTIVES (6 CR.SEM.)			

AVIONICS (36 CR.SEM.)			
EL 101 Bas Elect Cur & DC	4		
EL 102 Fundamentals of AC	4		
EL 103 Vac Tube & Semiconductors Fund	4		
EL 104 Bas Electronic Ckt & Syst.	4		
EL 105 Bas Radiele Theory & Op	3		
EL 205 Electr Dig Fund & Circuits	3		
EL 206 Adv Radiele Equip Theory & Op	3		
AV 215 A/C Comm & Nav Syst	3		
AV 216 Aircraft Pulse System	3		
AV 317 A/C Radar & Flt Control Syst.	3		
AV 340 AV Equip TS & Repair Lab OR			
EL 310 Adv El Anal Equip & Tech	2		

UPPER DIVISION (300-400 LEVEL COURSES) (9 CR.SEM.)			

ELECTIVES IN EXCESS OF MINIMUM DEGREE REQUIREMENTS			

TRANSFER CREDIT ACCEPTED

A. _____

B. _____

C. _____

D. _____

TOTAL _____

ADVANCED STANDING GRANTED

E. EXPERIENCE _____

F. COLLEGE LEVEL EXAMS _____

G. DRAFT COURSES & EXAMS _____

H. FORMAL SERVICE SCHOOLS _____

I. OTHER _____

TOTAL _____

TOTAL _____

SIGNATURE OF ANALYST

In completing these degree requirements a minimum of 40 credit hours must be in the Junior-Senior (300-400) level courses.

EVALUATION WORKSHEET

1979-80 CATALOG

This is only a guide for your use. For complete graduation requirements see the 1979-80 catalog.

You must have an APPROVED Associate degree prior to entering this program.

BACHELOR OF SCIENCE IN AVIATION ADMINISTRATION
EMBRY-RIDDLE AERONAUTICAL UNIVERSITY

Name _____
(Last) (First) (MI)

Date _____

MINIMUM TOTAL OF 66 TRIMESTER HOURS REQUIRED FOR THIS DEGREE

NOTICE: You have one month from the date of this evaluation or from the date of matriculation on the ERAU campus to notify this office if you disagree with the evaluation. It is assumed that the evaluation is final and no more advanced credit will be granted during the remainder of your academic career at ERAU.

AERONAUTICAL SCIENCE (24 CR. HRS.)	HRS. REQ.	CR HRS. HRS.	HRS. HAS.
AS 100 Found. of Aeronautics	4		
AS 101 History of Aviation	3		
AS 201 Meteorology	3		
AS 211 A/C Engines & Systems	3		
AS 303 Government & Aviation	3		
AS 307 Flight Physiology	2		
AS 405 Aviation Law	3		
AS 409 Aviation Safety	3		

MANAGEMENT/ECONOMICS (30 CR. HRS.)			
EC 110 Macroeconomics	3		
EC 210 Microeconomics	3		
MS 110 Accounting	3		
MS 200/ Principles of Management MS 405 Mgt. Bus. Enterprise	3		
MS 305 Mgmt. Anal. & Concepts	3		
MS 311 Marketing	3		
MS 313 Personnel Management	3		
MS 314 Psychology of Management	3		
MS 409 General Aviation Marketing	3		
MS 421 Trends & Current Problems in Air Transportation	3		

COMPUTER TECHNOLOGY/MATH (6 CR. HRS.)			
CT 205/1010 PR Comp. in Avi.	3		
CT 309 Fortran Programming	3		
OR			
CT 310 Business Programming	3		
OR			
CT 315 RPG Programming	3		
OR			
MA 211 Statistics w/Aviation App.	3		

HUMANITIES/SOC.SCI (6 CR. HRS.)			
HU 221 Tech. Report Writing	3		
SS 210/220 Intro to Psychology/ Sociology	3		

Comments: _____

If a student has already taken, as part of the Associate degree or subsequent to the AS degree the equivalent of any of the courses required, he or she must in lieu of that course, take one of the following:

AS 309 Basic Aerodynamics
AS 310 Aircraft Performance
AS 401 Airport Development & Ops.
AS 410 Air Carrier Operations
AS 412 Corporate/Industrial Aviation
EC 420 Economics of Air Transportation
MS 331 Transportation Principles
MS 408 Airport Management
MS 410 Management of Air Cargo
MS 415 Airline Management

If the student has completed one or more upper division courses which are equivalent to those required in the degree program and these were completed at another accredited four year institution, the courses will be accepted in transfer toward the degree. However, the student must meet the minimum "the last 30 credit hours with ERAU" requirement.

TRANSFER CREDIT ACCEPTED:

A. _____
B. _____
C. _____
D. _____
Total _____

ADVANCED STANDING GRANTED:

E. Experience _____
F. College Level Exams. _____
G. USAFI Courses & Exams _____
H. Formal Service Schools _____
I. Other _____
Total _____
Total _____

"UNOFFICIAL EVALUATION"
"COUNSELING PURPOSES ONLY"

VE-8

EMBRY-RIDDLE AERONAUTICAL UNIVERSITY
PROGRAM LOCATIONS

ENGLAND

ALCONBURY
*LAKENHEATH/MILDENHALL
*SEMTWATERS/WOODBRIDGE
*UPPERHEYFORD
WELFORD

GERMANY

ANSBACH
BERLIN
FINTHEN
GIEBELSTADT
HANAU
ILLESHEIM
LUDENDORF
NUERNBERG
RHEIN MAIN
SPANGDAHLEM
WIESBADEN
ZWEIBRUCKEN
SCHWAEBISCH HALL
STUTTGART
SUEDINGEN
WUERZBURG
AUGSBURG
BITBURG
FULDA
HAHN
HEIDELBERG
KITZINGEN
MANNHEIM
* RAMSTEIN

GREECE

ATHENS

TURKEY

INCIRLIK

SPAIN

ROTA
TORREJON
ZARAGOZA

UNITED STATES

*FORT RUCKER, ALABAMA
FORT CAMPBELL, KENTUCKY
FORT BRAGG, NORTH CAROLINA
HUNTER AAF, GEORGIA
NAS, MEMPHIS, TENNESSEE
*MIAMI, FLORIDA
FORT ORD, CALIFORNIA
SHAW AFB, SOUTH CAROLINA
NAS, OCEANA, VIRGINIA
*FORT EUSTIS, VIRGINIA
FORT BENNING, GEORGIA
FORT KNOX, KENTUCKY
NAS, ALAMEDA, CALIF.
NAS, KINGSVILLE, TEXAS
NAS, CHASE FIELD, TEXAS
HOMESTEAD AFB, FLORIDA
HAWAII
SAN FRANCISCO, CALIFORNIA
NAS, CORPUS SHRISTI, TEXAS

* INDICATES GRADUATES PROGRAM AVAILABLE

E-RAU EUROPEAN MAIN OFFICE ADDRESS:

HQ USAFE/DPPEF
ATTN: EMBRY-RIDDLE AERONAUTICAL UNIVERSITY
APO N.Y. 09633 Tel.# Wiesbaden Mil. 3327

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LINDSEY AIR STATION (GERSDORFF KASERNE)
SCHIERSTEINER STRASSE
6200 WIESBADEN Tel.# 06121-810608

HOME CAMPUS ADDRESS:

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REGIONAL AIRPORT
DAYTONA BEACH, FLORIDA 32014 Tel.# (904) 252-5561