Embry-Riddle Aeronautical University

GRADUATE CATALOG 1984

EMBRY-RIDDLE AERONAUTICAL UNIVERSITY

ADDENDUM
TO THE
1984 GRADUATE CATALOG

Effective January 1, 1984

EMBRY-RIDDLE AERONAUTICAL UNIVERSITY

Teaching Aviation since 1926

1984 GRADUATE CATALOG

Personal Copy of:

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INTERNATIONAL CAMPUS
STAR ROUTE BOX 540
BUNNELL, FLORIDA 32010

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INTRODUCTION

An Invitation from the President

In choosing a graduate school, you are about to make one of the most important decisions in your life. I hope the information in this catalog will help you make the decision which is right for you.

In its more than 50 years of service, Embry-Riddle Aeronautical University has become acknowledged as the world's leader in aviation higher education. This reputation for leadership is founded on three principal characteristics: the professional quality of our instruction, our total commitment to aviation education, and our innovative programs in response to the needs of the aviation industry.

Most of our graduate faculty who teach aviation related courses have industry experience in public or private enterprise. This enables the faculty to provide an important link between theory and practice. A constant exposure to "real world" experience helps our students develop the critical, analytical, problem-solving, and decision-making skills they will need to respond to the dynamic challenges of the aviation industry.

Because of our total commitment to aviation education, Embry-Riddle has the active interest and support of aviation leaders on our Board of Trustees and on advisory committees. These leaders are of great assistance in formulating our curriculum so that it meets the rapidly changing needs of the aviation industry and provides a solid foundation in traditional core courses for the master's degrees.

If you are interested in a future in aviation and can meet the high standards set by Embry-Riddle, we invite you to apply for enrollment and become part of the Embry-Riddle tradition of excellence in aviation higher education.

Aeronautically,

Jack R. Hunt

Jack R. Hunt
President

EMBRY-RIDDLE,
A University Like No Other

Since its beginning, Embry-Riddle Aeronautical University has played a unique and important role in aviation. A flying service established at Lunken Airport in Cincinnati on May 19, 1926 was the first aviation organization that operated under the Embry-Riddle banner. Everything from equipment, repair parts, and space to qualified pilots and mechanics was in short supply. Later, the lack of trained mechanics and pilots was to play a pivotal role in setting a new direction for Embry-Riddle. The original company remained intact until late 1928 when it was sold and became the first unit of what is now American Airlines. Four years later J. Paul Riddle, one of the founding fathers, left American and, with aviation education on his mind, started a new company under the Embry-Riddle name. Home base, established on a causeway in Miami, became the first Florida site of the company. By the late 1930's, Riddle and his new partner, John G. McKay, had expanded the operation into the world's largest aviation school, with flight training centers throughout Florida and one in Tennessee. With the advent of World War II, Embry-Riddle became a mecca for training pilots, mechanics and other aviation technicians for the allied nations. Best estimates put the number of candidates trained at around 50,000. After the war, the curriculum was further expanded, first as the Embry-Riddle International School of Aviation and then Embry-Riddle Aeronautical Institute. In 1962, the current president, Jack Hunt, reorganized Embry-Riddle as a non-profit institution and planned for expansion and relocation. On April 24, 1965, a convoy of trucks containing everything the institution owned rolled onto the airport at Daytona Beach, Florida and began operating with some 260 students. Embry-Riddle acquired an 86-acre tract of land at the airport and, in 1970, officially became a University.

The multi-million dollar complex in Daytona Beach is now known as the Eastern campus. Approximately 5,000 students are enrolled in associate's and bachelor's degree programs in aeronautical engineering, aeronautical science, aviation management, aviation maintenance, and computer science. Many students include flight and/or aircraft maintenance training as part of their degree programs.

Undergraduate programs were inaugurated at the Western campus in Prescott, Arizona in 1978. Approximately 800 students study on this 510-acre campus nestled in one of the most picturesque sections of the Grand Canyon State, about 100 miles north of Phoenix.

Since the first resident center opened at Ft. Rucker, Alabama in 1970, the International Campus has met the higher education needs of a particularly mobile segment of the population through unique methods of instructional delivery. The network of education centers has expanded to more than 80 locations worldwide, from Hawaii to western Europe. In addition to centers at U. S. military and other

federal installations, the International Campus participates in the Miami Education Consortium in South Florida. The students served by the International Campus are mostly working professionals unable to participate in traditionally scheduled daytime classes. Consequently, instruction is designed to match the special needs of part-time students. Full-time study can be pursued at many locations, as well. Approximately 5,000 students participate in associate's, bachelor's, and master's degree programs at International Campus locations.

The graduate program is administered by the International Campus. Graduate study was first offered by the University in 1973 in Miami, an international aviation hub and, at the time, headquarters for three major air carriers. Graduate programs are now available at 20 domestic resident centers, including Daytona Beach, and the Miami Education Consortium, and throughout the European division of the International Campus. The program locations are listed with addresses and telephone numbers in the last section of the catalog beginning on page 65.

UNIVERSITY STATEMENT OF PURPOSE

The purpose of Embry-Riddle Aeronautical University is to provide an aeronautically-oriented educational program of such fundamental background, scope, and excellence that students may achieve competency and proficiency for productive careers, and in doing so, develop character, judgment, breadth of view, and understanding of our social and economic systems.

GOAL OF THE UNIVERSITY

The goal of Embry-Riddle Aeronautical University shall be to provide aeronautically-oriented programs of excellence in order to prepare students for productive careers in private industry or public service and in furtherance thereof to:

a. Continue the development of the existing University organization, staff, and facilities with the view of providing all appropriate educational and support activities for its student body.
b. Offer diploma, degree, and certificate programs designed to develop maturity and to qualify men and women academically and technically in aeronautical and related disciplines.
c. Foster a better understanding of the working of the free enterprise system and its social and economic benefits and of the profit motive as vital forces to the potential of individuals and groups.
d. Enhance the career potential of aeronautical personnel worldwide through extension study programs and activities.
e. Develop a sufficient range of educational programs to foster increases in the size of the student body.
f. Endeavor to systematically and consistently improve the quality of all disciplines and programs.

g. Create extensive opportunities for continuing education in academic programs through special courses of instruction, seminars, and workshops related to aeronautics.
h. Assist socially, economically, and culturally deprived persons in gaining motivation for scholastic achievement and in pursuing educational activities.
i. Contribute to the advancement of aeronautics through University research and consultant services.
j. Achieve effective relations among students, faculty, staff, trustees, parents, visitors, and alumni; and between the University and (1) the communities in which it functions, (2) governmental bodies, (3) the aviation industry, (4) the employers of graduates, and (5) donors.
k. Promote international relations in aeronautical education.

GRADUATE PROGRAM STATEMENT OF PURPOSE

Embry-Riddle Aeronautical University graduate educational programs are designed to provide students with the knowledge, skills, and abilities to enable them to make a significant contribution to the aviation field. In order to do that and prepare the graduate to generate creative alternative solutions to the problems of aviation, the application of current technology, methodology, and human resource management techniques is stressed. The acquisition of conceptual, analytical, and problem-solving skills is also emphasized. Wherever possible, case study and simulation learning techniques are employed. While the focus is on application, a clear balance is maintained between the practical and theoretical perspectives. Embry-Riddle is committed to providing graduate education to practicing aviation professionals as well as those just beginning a career in aviation so that both may continue their academic, career and personal development.

ACCREDITATION AND AFFILIATION

Embry-Riddle Aeronautical University is accredited by the Southern Association of Colleges and Schools. All Embry-Riddle Aeronautical University degree programs offered at the various International Campus locations and the Daytona Beach and Prescott Campuses have been approved by the appropriate state approving agencies for the enrollment of veterans eligible for United States Veterans' Administration educational benefits under the various public laws.

STATEMENTS OF POLICY

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

Embry-Riddle Aeronautical University does not discriminate on the basis of handicap in the recruitment and admission of students, the recruitment and employment of faculty and staff, or the operation of any of its programs and activities, as specified by federal laws and regulations. A coordinator for compliance with Section 504 of the Rehabilitation Act of 1973, as amended, has been appointed for each campus of the University. The coordinators are the: Dean of Students, Prescott; Director of Health Services, Daytona Beach; and Dean of Academic Affairs, International.

The University reserves the right to adjust tuition and fees as it deems necessary.

CATALOG SCOPE AND APPLICABILITY

This catalog is designed for use from January 1, 1984 to December 31, 1984. It is not intended that the provisions of this catalog constitute the statement of the terms of an irrevocable contract between the student and the University. The University reserves the right at all times to change any provision or any requirement stated in this catalog and it further reserves at all times the right to require any student to withdraw for cause. Students who matriculate after 1 January 1984 are subject to all of the provisions of this catalog. As long as continuous enrollment is maintained, a student may remain under the provisions of this catalog or choose any subsequent edition of the graduate catalog.

Students following an earlier catalog but enrolled in courses after 1 January 1984 are subject to the policies, rules, and regulations set forth in the Procedures and Regulations Section and the financial policies and regulations set forth in the Financial Information Section of this catalog.

ALUMNI RELATIONS OFFICE

The Alumni Relations Office serves as the liaison between the alumni-at-large and the University. An alumni newsletter is published and distributed quarterly to herald the latest developments at the University; provide a forum for alumni opinion of University and industry matters; and facilitate contact among graduates.

Alumni chapters have been formed in many areas of the country and within individual organizations employing a number of University graduates. Through the chapters, alumni can share experiences, discuss career strategies, and enjoy social activities.

Other alumni benefits include career assistance available through the Industry Liaison offices at the Daytona Beach and Prescott Campuses and International Campus resident centers. Discount rates on hotels, rental cars, group travel, and insurance are also available.

The alumni of the University are an integral factor in the continued growth of Embry-Riddle. Many alumni contribute regularly to the various student assistance funds, such as the REAL (Repayable Educational Assistance Loan) program. Others donate equipment or their time to serve as counselors at college fairs and other special education events in their local areas.

Over 80,000 graduates have the distinction of calling Embry-Riddle Aeronautical University their alma mater. They can be found in every facet of aviation. Information about alumni activities can be obtained by contacting the Alumni Relations Office at the Executive Offices in Bunnell, Florida.

DEGREE PROGRAMS

INTRODUCTION
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MASTER OF AVIATION MANAGEMENT
MASTER OF AERONAUTICAL SCIENCE
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INTRODUCTION

Status quo is virtually an unknown concept in the aviation industry. The technology with which aviation works and the national and international regulations with which it must abide are subject to rapid, frequent, and sweeping change. Aviation touches every sphere of modern personal and business life and therefore, must be sensitive to and respond to stimuli from a variety of unrelated sources. A healthy aviation industry is critical to the nation's economic well-being and security.

Embry-Riddle Aeronautical University graduate degree programs are fashioned to stress pragmatic solutions to the managerial and organizational problems likely to arise in the aviation and business world of today. The actual problems presently confronting industry are brought into the classroom for analysis together with the newest tools and techniques available to the manager. Case studies, simulations and other experiential exercises are interspersed throughout the curriculum to achieve a balance between traditional management theory and the realities of organizational life in the 1980's.

The faculty is a mixture of traditionally prepared academicians and those who have compiled records of significant and substantial contributions to the industry. The faculty provide another very important link with aviation and industry. Many of the graduate students themselves have already established careers in aviation and thus, are also able to provide valuable insights from their professional training and experience.

Opportunities are provided within each degree program to tailor the curriculum to meet specific, individual career objectives. Classes are scheduled to accommodate both full- and part-time study. Many of the graduate courses are non-sequential, allowing study to begin in any term. Electives needed to complete the requirements of any graduate degree may be selected from among any of the 500/600 numbered courses (except MS 590 and MS 591) listed in this catalog.

MASTER OF BUSINESS ADMINISTRATION IN AVIATION (MBA/A)

The Master of Business Administration in Aviation is designed to emphasize the application of modern management concepts, methods, and tools to the challenges of aviation and general business. The special intricacies of aviation are woven into a strong, traditional business foundation and examined in greater detail through the wide variety of electives.

The demand for professional managers can only continue to grow in response to the increasing need to improve the efficient and effective use of scarce resources; operate in an atmosphere of heightened national and international competition; accommodate the expansion of the emerging nations; and respond to the call to preserve the fragile environment. The MBA/A curriculum is oriented toward

the needs of the strategic decision-maker in the management hierarchy.

Versatility and analytical resourcefulness are two of the key aims of the MBA/A. While highly structured, part of the curriculum can be individually molded to satisfy personal interests. The Master of Business Administration in Aviation graduate possesses a degree that signifies knowledge of the unique characteristics of the aviation industry and the management principles underlying all business.

The MBA/A curriculum consists of a core requirement of 24 credit hours (8 courses) and an elective component totaling 12 credit hours. The degree requirements are summarized in the listing that follows:

MBA/A Core Courses

	Credit Hours
MS 607 Human Resource Development	3
MS 611 Quantitative Methods in Business	3
MS 614 Marketing Analysis	3
MS 617 Advanced Financial and Managerial Accounting	3
MS 618 Corporate Finance	3
MS 621 Introduction to Decision Support Systems	3
MS 635 Business Policy Analysis	3
MS 638 Managerial Economics	3
Electives	12
Total	36

Since prerequisite requirements must be satisfied prior to enrollment in any graduate course, the prerequisites for the MBA/A core courses are listed below to help students plan their academic program. Descriptions of these Embry-Riddle undergraduate courses are included at the end of the Course Description section of the catalog.

MS 607 - MS 305 or the equivalent of the principles of management
MS 611 - MA 211/222 or the equivalent of probability and statistics
MS 617 - MS 210, 212, & 312 or the equivalent of the principles of financial and managerial accounting
MS 618 - MS 210, 212, & 312 or the equivalent of the principles of financial and managerial accounting
MS 621 - CS 105/109 or a course in basic programming
MS 635 - MS 611, MS 614, & MS 618.
MS 638 - EC 210 & EC 211 or the equivalent of the principles of microeconomics and macroeconomics.

MASTER OF AVIATION MANAGEMENT (MAM)

The Master of Aviation Management is designed primarily for those interested in managing the many smaller organizational entities that are such a vital part of the aviation industry. Examples include fixed base operations, corporate flight departments, commuter and air taxi flight operations, component and support equipment manufacturers and flight training establishments. In a typical morning, a manager of one of these operations may have to deal with situations in customer service, crew scheduling, wage and salary administration, packaging, inventory, and budgeting, to name just a few.

The curriculum is a survey of the tools and techniques available to manage problems that arise in all of the functional areas of management. The needs of the tactical organizational decision-maker are the designed focus of the MAM curriculum. Four of the core courses stress the practical application of management theory to aviation while the two elective core courses allow the establishment of an individual program direction. Through judicious elective selection, the MAM student is able to put together a solid program that complements the framework formed by the core electives chosen. The MAM degree requires 36 credit hours consisting of a core totaling 18 credit hours (6 courses) and an elective component of 18 credit hours. The curriculum is summarized in the list that follows:

MAM Core Courses

	Credit Hours
MS 611 Quantitative Methods in Business	3
MS 613 Personnel Management and Industrial Relations	3
MS 615 Current Problems in Aviation	3
MS 621 Introduction to Decision Support Systems	3
In addition, two of the following courses must be selected to complete the core:	6
MS 602 Principles of Air Transportation	
MS 609 Airline Operations and Management	
MS 618 Corporate Finance	
MS 645 Airport Management	
MS 655 Aviation Law and Insurance	
AS 608 Aircraft Accident Investigation and Aviation Safety	
Electives	18
Total	36

Since prerequisite requirements must be satisfied prior to enrollment in any graduate course, the prerequisites for the MAM core courses are listed below to help students plan their academic program. Descriptions for these Embry-Riddle undergraduate courses are included at the end of the Course Description section of the catalog.

MS 611 - MA 211/222 or the equivalent of probability and statistics
MS 613 - MS 305 or the equivalent of the principles of management
MS 621 - CS 105/109 or a course in basic programming
MS 602 - EC 210, EC 211, & MS 305 or the equivalent of the principles of microeconomics, macroeconomics, & management
MS 609 - MS 305 or the equivalent of the principles of management
MS 618 - MS 210, 212, & 312 or the equivalent of the principles of financial and managerial accounting
MS 645 - MS 305 or the equivalent of the principles of management

MASTER OF AERONAUTICAL SCIENCE (MAS)

The Master of Aeronautical Science is designed for the professional pilot with at least a Federal Aviation Administration Commercial Pilot certificate and Instrument rating (or the equivalent in experiential and/or academic credentials) who seeks a career in the technical sphere of aviation. Opportunities include engineer liaison with an aircraft or aircraft engine manufacturer, technical representative for a component manufacturer, flight operations manager, or federal air safety inspector. Functional responsibilities might include operations, safety, maintenance, logistics, or information systems. The MAS core is structured to broaden and deepen the operational knowledge that the students bring to the program. Electives can be chosen according to the specialty that most interests the individual student. The MAS degree requires 36 credit hours composed of a core totaling 18 credit hours (6 courses) and 18 credit hours of electives. The curriculum is summarized in the list that follows:

MAS Core Courses

	Credit Hours
AS 606 Aviation Control/Communication Systems	3
AS 607 Advanced Aircraft Systems	3
AS 608 Aircraft Accident Investigation and Aviation Safety	3
AS 609 Aircraft Maintenance Management	3
AS 634 Aviation Psychology	3
MS 615 Current Problems in Aviation	3
Electives	18
Total	36

Since prerequisite requirements must be satisfied prior to enrollment in any graduate course, the prerequisites for the MAS core courses are listed below to help students plan their academic program. Descriptions of these Embry-Riddle undergraduate courses are included at the end of the Course Description section of the catalog.

AS 606 - AS 103 & AS 202 or FAA Commercial/Military Pilot certification with instrument Rating.
AS 607 - AS 210 or AMT 370
AS 609 - MS 305 or the equivalent of the principles of management
AS 634 - FAA Commercial/Military Pilot certification with Instrument Rating

DUAL DEGREE OPTIONS

A student may pursue two Embry-Riddle master's degrees—the Master of Aeronautical Science and either the Master of Business Administration in Aviation **OR** the Master of Aviation Management. The decision to pursue one of the dual degree options must be declared in writing before a student completes the first 12 credit hours of Embry-Riddle graduate study. A maximum of 12 credit hours from one degree may be applied to the requirements of the other. Thus, a minimum of 60 credit hours must be earned that includes all of the core courses of both degree programs. The transfer credit maximum of 12 credit hours is in effect for pursuit of a dual degree option meaning that a minimum of 48 credit hours of Embry-Riddle graduate courses must be completed. A diploma is awarded for each degree. Following is a summary of the combined curricula for the two dual degree alternatives:

I. MAS and MBA/A

Core Courses

	Credit Hours
AS 606 Aviation Control/Communication Systems	3
AS 607 Advanced Aircraft Systems	3
AS 608 Aircraft Accident Investigation and Aviation Safety	3
AS 609 Aircraft Maintenance Management	3
AS 634 Aviation Psychology	3
MS 607 Human Resource Development	3
MS 611 Quantitative Methods in Business	3
MS 614 Marketing Analysis	3
MS 615 Current Problems in Aviation	3
MS 617 Advanced Financial and Managerial Accounting	3
MS 618 Corporate Finance	3
MS 621 Introduction to Decision Support Systems	3
MS 635 Business Policy Analysis	3
MS 638 Managerial Economics	3
Electives	18
Total	60

II. MAS and MAM

Core Courses

	Credit Hours
AS 606 Aviation Control/Communication Systems	3
AS 607 Advanced Aircraft Systems	3
AS 608 Aircraft Accident Investigation and Aviation Safety	3
AS 609 Aircraft Maintenance Management	3
AS 634 Aviation Psychology	3
MS 611 Quantitative Methods in Business	3
MS 613 Personnel Management and Industrial Relations	3
MS 615 Current Problems in Aviation	3
MS 621 Introduction to Decision Support Systems	3
Select two of the following courses to complete the MAM core:	6
MS 602 Principles of Air Transportation	
MS 609 Airline Operations and Management	
MS 618 Corporate Finance	
MS 645 Airport Management	
MS 655 Aviation Law and Insurance	
Electives	27
Total	60

ADMISSION

ADMISSION ELIGIBILITY
TRANSFER AND ADVANCED STANDING CREDIT
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ADMISSION ELIGIBILITY

Persons who possess a baccalaureate degree from a college or university regionally accredited in the United States are eligible for admission to graduate study at Embry-Riddle Aeronautical University. Applicants educated at foreign schools must submit official, certified credentials to Educational Credential Evaluators, Inc. for evaluation to determine the equivalency of their education to a baccalaureate degree from a regionally accredited institution in the United States. Applicants for whom English is a second language **must demonstrate** sufficient proficiency in English for succesful study at the graduate level by attaining a minimum score of 550 on the Test of English as a Foreign Language (TOEFL). Applicants who completed their undergraduate education at a college/university where English was the language of instruction in all disciplines are not required to demonstrate English language proficiency.

Applicants who wish to pursue the Master of Aeronautical Science **must satisfy** one of the following sets of criteria:

1. Possess the Federal Aviation Administration Commercial Pilot certificate with Instrument rating.
2. Possess:
   a. U. S. military fixed-wing pilot rating or,
   b. U. S. military rotary-wing pilot and Standard Instrument rating or,
   c. Certification as a U. S. military aircraft navigator and demonstrate knowledge of aircraft systems and components by successfully completing the following Embry-Riddle undergraduate course or its equivalent:

      AS 210 Aircraft Systems and Components or
      AMT 370 Airframe Systems and Applications
3. Have completed the following Embry-Riddle undergraduate courses or equivalent courses with a minimum grade of "C". The FAA certificates and ratings that satisfy certain courses are also shown:

AS 100	Foundations of Aeronautics (Private Pilot)	4 Credits
AS 102	Navigation I (Commercial Pilot)	3 Credits
AS 103	Flight Rules and Regulations (Commercial Pilot)	3 Credits
AS 201	Meteorology (Commercial Pilot)	3 Credits
AS 202	Navigation II (Instrument Rating)	3 Credits
AS 203	Aircraft Engines - Reciprocating or AMT 280, Powerplant Theory and Applications (Flight Engineer-Reciprocating.)	3 Credits
AS 210	Aircraft Systems and Components or AMT 370, Airframe Systems and Applications (Flight Engineer-Basic.)	3 Credits

AS 311 Aircraft Engines - Turbine 3 Credits
or AMT 380 Aircraft Propulsion
Systems and Applications
(Flight Engineer-Turbine.)

With the specific permission of the Dean of Academic Affairs, exceptional undergraduate students may be allowed to enroll in graduate courses during the final term in which they will complete all requirements for the baccalaureate degree. The combination of graduate and undergraduate enrollments may not exceed the course load limits specified in the Procedures and Regulations Section of the graduate catalog.

Applications may be submitted by undergraduate students who are within 30 semester hours of completing a baccalaureate degree in view of the lead time required to process applications for financial aid. Following a review, the Dean of the United States or European division of the International Campus may grant conditional admission subject to the presentation of evidence that the baccalaureate degree has been conferred. A student admitted on a conditional basis is not permitted to enroll in Embry-Riddle graduate courses.

TRANSFER AND ADVANCED STANDING CREDIT

The combined total of transfer and advanced standing credit applied to an Embry-Riddle graduate degree, including the dual degree options, **may not exceed 12 credit hours.** Subsequent to initial enrollment at Embry-Riddle, all graduate degree requirements **must be completed** at the University unless an articulation agreement with the other institution is in force at the time.

Graduate courses completed at another regionally accredited college/university may be considered for transfer and application to Embry-Riddle master's degree requirements. Courses proposed for transfer to satisfy graduate degree core requirements will be carefully evaluated to determine equivalency before being applied. In order to facilitate evaluation of courses for transfer, applicants should submit a copy of the school catalogs marked to show the descriptions of the courses to be considered. Transfer credit will be considered only if all of the following criteria are satisfied:

1. Official transcripts from the institution where the credit was earned are received **directly** from that institution.
2. The courses were completed with a minimum grade of "B".
3. The courses were completed within the seven (7) year period immediately preceeding the date the application for admission is received at the Student Records and Registration Office in Bunnell, Florida.
4. Course subject matter is management or aeronautically oriented and relevant to the applicant's Embry-Riddle graduate degree program.

Advanced standing credit for non-academic experience may be awarded for the possession of advanced flight credentials. The possession of advanced flight credentials must be documented by pre-

senting valid Federal Aviation Administration certificates. Flight credentials used to satisfy undergraduate degree requirements **will not** be accepted for consideration for advanced standing in the graduate program. The credit granted for advanced flight credentials is as follows:

Flight Engineer Certificate	- Basic	2 Credit hours
	- Reciprocating	1 Credit hour
	- Turbine	1 Credit hour
Airline Transport Pilot Certificate		2 Credit hours
Aircraft Type ratings		
- Reciprocating-Powered Aircraft		1 Credit hour
- Turbine-Powered Aircraft		1 Credit hour

Advanced standing credit may also be granted for successful completion of certain senior United States military service schools. The schools **must have been completed** within the seven (7) year period immediately preceeding the date the application for admission is received at the Student Records and Registration Office in Bunnell, Florida. The eligibility of a school for advanced standing credit and the level of credit to be granted is in accordance with the current "Guide to the Evaluation of Educational Experiences in the Armed Services" published by the American Council on Education. Official documentation of the successful completion of senior service schools must be submitted by the applicant desiring advanced standing credit.

Petitions for experiential credit beyond that described above are not encouraged and will only be favorably considered in exceptional circumstances.

APPLICATION PROCEDURES

Applications for admission are to be submitted through the Embry-Riddle resident center which the applicant plans to attend. Applications will not be processed until all required credentials are received. Applications received after the submission deadlines specified below will be processed as quickly as possible, but acceptance for admission may not be early enough for the applicant to begin the program as soon as desired.

UNITED STATES CITIZENS (and permanent residents of the United States)

All of the following items must be received at the appropriate resident center **at least 15 days** prior to the first day of the initial term in which the applicant plans to enroll.

1. Completed application form and the full application fee ($15).
2. Official transcripts sent **directly** from each college or university attended. Applicants wishing to transfer graduate credit are reminded to submit catalogs from the institutions where the credit was earned, marked to indicate the courses to be reviewed.

3. Official test result reports for DANTES or CLEP examinations, applicable to undergraduate prerequisite requirements, sent directly from the testing authority.
4. Copies of Federal Aviation Administration flight certificates and/or official documentation of military pilot experience.

FOREIGN APPLICANTS (non-resident, non-immigrant applicants entering the United States on F-1 or J-1 student visas)

Embry-Riddle is authorized under Federal Laws to enroll non-immigrant alien students. Foreign applicants may enroll at the Daytona Beach Center, the Miami Education Consortium or with special approvals, at certain European Division locations. Foreign students interested in enrolling at European locations should contact the local center director or the European Division headquarters at Wiesbaden.

All of the following items must be received at the appropriate resident center **at least 6 months** prior to the first day of the initial term in which the applicant plans to enroll.

1. Completed application form and the full application fee ($50).
2. Detailed evaluation of all foreign college/university educational credentials by:

   Educational Credentials Evaluators, Inc.
   P. O. Box 17499
   Milwaukee, Wisconsin 53217

   A fee is charged for this service and is paid by the applicant. The current rate can be obtained from the company, the resident center, or the Department of Student Records and Registration. Since the evaluation process takes some time, allowances should be made so that the 6 month application deadline can be met.
3. All applicants whose native language is not English or who were educated at schools where English was not the language of instruction in all disciplines **must submit** evidence of English language proficiency. Evidence consists of official test result reports for the Test of English as a Foreign Language (TOEFL) sent **directly** by the testing agency. The minimum acceptable score is 550.
4. Bank letter, affidavit of financial support, or official notification of public or private organizational sponsorship. An estimate of annual tuition, educational, and living expenses may be obtained from an Embry-Riddle center upon request. Foreign students must be fully prepared upon arrival at the University to meet all normal living expenses and manage their finances throughout their stay.

Upon notification of acceptance for graduate study, foreign applicants must remit the required advance tuition deposit. The amount of the required deposit and associated procedures are described in the Financial Information section of the catalog. Upon receipt of the deposit, the University will send written confirmation of enrollment eligibility and issue the Certificate of Eligibility (U. S. Immigration and Naturalization Service form I-20). The I-20 form must be in the student's possession prior to departure from the home country. To obtain the necessary entry visa, the student presents the I-20 form to the nearest U. S. embassy or consulate. Changing U. S. immigration status from tourist (or other) to student is not possible after arrival at the University.

The foregoing rules and procedures apply equally to foreign students already studying in the United States who wish to pursue graduate study at Embry-Riddle. The only exception is that they must follow the required procedures to obtain approval of the U. S. Immigration and Naturalization Service for the transfer. It is recommended that they seek the assistance of the foreign student advisor at the school from which they wish to transfer.

ADMISSION TIME LIMIT

Applicants who have been accepted for admission into the Embry-Riddle graduate program must enroll in Embry-Riddle graduate courses within one (1) year from the date of the letter notifying them of acceptance. Those who do not enroll within the specified time period must reapply for admission according to the regulations and procedures in effect at the time of reapplication.

PERFORMANCE TRIAL

The Embry-Riddle graduate program is designed to give all applicants who qualify for admission the opportunity to attempt graduate study. However, all who are accepted for admission must demonstrate by their initial academic performance that they can meet the standards expected of candidates for an Embry-Riddle master's degree. Qualification for degree candidacy is based exclusively on performance. Hence, all students are subject to a performance trial for the first 12 credit hours of Embry-Riddle graduate study attempted.

In order to remain in the graduate program and qualify as degree candidates, students must achieve a minimum cumulative grade point average (CGPA) of 3.00 for the first 12 credit hours of Embry-Riddle graduate courses attempted. Students who fail to achieve the 3.00 CGPA will be prohibited from further graduate study at Embry-Riddle effective with the end of the term in which the twelfth credit hour was attempted. The CGPA to determine eligibility for degree candidacy will be calculated in accordance with the procedure described in the Procedures and Regulations section of the catalog and include all Embry-Riddle graduate courses attempted up to and including the term in which the twelfth credit was attempted.

PREREQUISITE REQUIREMENTS

The prerequisite requirements for any graduate course **must be satisfied** before registration will be accepted in that course. Satisfaction of prerequisite requirements may be demonstrated by any of the following means:

1. Completion of the Embry-Riddle undergraduate courses listed as prerequisites at the end of each graduate course description with a minimum grade of "C". Individual descriptions of these undergraduate courses are provided at the end of the course description section.
2. Official transcripts from regionally accredited colleges/universities showing completion of courses substantially equivalent to the Embry-Riddle undergraduate courses with a minimum grade of "C".
3. Satisfactory completion of Embry-Riddle comprehensive subject examinations. Special concentrated review courses in accounting and economics, MS 590 and MS 591, are offered at many locations as refreshers for students who choose this alternative. Course descriptions may be found in the course description section of the catalog.
4. Official CLEP/DANTES test result reports showing satisfactory scores on tests equivalent to the prerequisites.

PROCEDURES AND REGULATIONS

STUDENT RESPONSIBILITIES
STANDARDS OF CONDUCT
ACADEMIC INTEGRITY
PRIVACY OF STUDENT RECORDS
ATTENDANCE
COURSE SCHEDULES, CLASS HOURS, AND TERM LENGTHS
COURSE LOAD
WITHDRAWAL FROM A COURSE
WITHDRAWAL FROM THE UNIVERSITY
GRADING POLICY
STANDARDS OF ACADEMIC PROGRESS
DEGREE COMPLETION TIME LIMIT
CONTINUOUS ENROLLMENT
READMISSION TO THE GRADUATE PROGRAM
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GRADUATION REQUIREMENTS
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All University graduate academic and non-academic procedures and regulations are subject to change within the school year. Therefore, all procedures and regulations in effect at a given time may not be reflected in the current catalog. When such changes do occur, notice of the change may be in the form of an addendum to the current graduate catalog. Catalog addenda are effective on the date published.

STUDENT RESPONSIBILITIES

Students are responsible for being fully informed about all procedures and regulations governing their participation in Embry-Riddle graduate programs. The necessary information may be found in the current graduate catalog, orientation and information packets published and distributed by the resident centers, and periodic announcements published by the University. Waivers of enforcement due to ignorance of a procedure or regulation will not be considered.

STANDARDS OF CONDUCT

Graduate students are expected to observe the generally recognized standards of acceptable personal conduct. As present and future aviation and business leaders, they are expected to assume personal responsibility for their actions and the conduct of their personal affairs. The University reserves the right to dismiss a student at any time and without further reason should the student's conduct, academic or other performance be regarded as undesirable. Undesirable conduct is defined as conduct not within the best interests of the University as construed by an ad hoc conduct committee composed of representatives from the student body and faculty. Undesirable conduct includes but is not limited to academic dishonesty, obstruction or disruption of University activities, theft or property damage, physical abuse of persons and possession of dangerous or narcotic drugs. The issuance of a transcript or diploma signifies satisfaction of all University requirements, behavioral and financial, as well as academic.

ACADEMIC INTEGRITY

Graduate students are expected to do and present only their own work to satisfy academic assignments. Incidents of academic dishonesty are regarded as very serious offenses. Sanctions accepted by or imposed on offenders following due process may include failure of the test or assignment, failure of the course, suspension, or dismissal from the University.

Plagiarism is recognized by the University as an act of academic dishonesty. It is defined as taking the ideas, writings, work, etc. of another and passing them off as one's own. Two common forms of plagiarism are the use of the written or oral work of another without giving proper acknowledgment and presenting the written and oral work of another in the guise of being one's own.

PRIVACY OF STUDENT RECORDS

The Family Educational Rights and Privacy Act of 1974, Public Law 93-380, provides students with the right of access to their educational records and precludes the University from releasing educational records to non-school employees without the consent of the student. Blanket authorizations are not permitted. Consent of the student must be supplied with every request to release education records. Certain "directory" information may be published at the discretion of the University without consent. This information includes, a student's name, address, telephone number, date and place of birth, degree program, class schedule, dates of attendance, degrees and awards received, and the most recent public or private school attended.

ATTENDANCE

Students are expected to attend all scheduled classes. Active participation in class is an important element of graduate study. It will be considered by instructors and reflected in the assignment of final course grades. At times, circumstances will force a student to be absent from class. On such occasions, all matters related to the absence, including making up missed work, are to be arranged between the student and the instructor. Should an absence be anticipated, the student should contact the instructor in advance to make arrangements that might include the audio recording of the missed session.

COURSE SCHEDULES, CLASS HOURS AND TERM LENGTHS

The length of a term varies throughout the International Campus according to the needs of the student population served by the different graduate locations. Thus, the academic year may be composed of from three to five terms. Classes meet from 1 to 3 times per week, typically on weekday evenings or during the day on weekends. Schedules of classes will include approximately 750 minutes of classroom instruction time for each hour of credit.

The course offerings for each term are planned to meet the academic needs of the majority of students. All core courses for the degree programs offered at a resident center are scheduled at a frequency which depends largely on the size of the program at a particular location. Elective course offerings are subject to other variables such as perceived student interest and the availability of appropriately qualified faculty. A schedule of course offerings is published well before an upcoming term by each resident center. The University reserves the right to make adjustments to the published schedule, including the cancellation of classes, whenever deemed necessary and appropriate.

COURSE LOAD

The maximum permissible course load is 12 credit hours per term. The resident center/regional director may restrict a student's enrollment when deemed in the best interests of the student. If a stu-

dent demonstrates exceptional academic performance, the resident center/regional director may approve a one course overload.

Full-time enrollment status is achieved when a student enrolls in six (6) or more credit hours per term.

WITHDRAWAL FROM A COURSE

A student may withdraw from a course until the end of the middle week of a term or as stated in the contracts or memoranda of understanding/agreement in effect at certain graduate locations. In the latter situation, the resident center will publish and display notification of the applicable regulation. The student **must complete and sign** the proper university form to accomplish a withdrawal. The effective date of the request is the date it is received by the center director/registrar. An official withdrawal cannot be accomplished simply by ceasing regular class attendance. When a course has not been completed and the official withdrawal procedure has not been properly followed, a grade of "F" will be assigned. Refer to the Financial Information section for information about refunds.

WITHDRAWAL FROM THE UNIVERSITY

Withdrawal from all University graduate courses after the scheduled withdrawal period and before the scheduled administration of any final examinations constitutes withdrawal from the University. When students formally withdraw from the University, a grade of "WP" (Withdrawal-Passing) or "WF" (Withdrawal-Failing) will be assigned for each course in which they are enrolled based on their performance in the course up to the time of official withdrawal. A student may withdraw from the University when the following conditions are met:

1. The proper University form, fully completed and signed, has been submitted to the center director/registrar prior to the scheduled administration of any final examinations for courses in which the student is enrolled.
2. All financial obligations to the University have been satisfied prior to submission of the withdrawal request.

An official withdrawal cannot be accomplished by simply ceasing class attendance. When courses have not been completed and the official withdrawal procedure has not been followed, grades of "F" will be assigned. In situations that do not meet the above criteria but involve exceptional circumstances that may create severe hardship for the student, the student may petition the Dean of Academic Affairs for special consideration through the center director/registrar.

GRADING POLICY

The following four-point scale is used to document student performance:

Grade	Achievement Rating	Grade Points
A	Excellent	4
B	Satisfactory	3
C	Passing	2
F	Failure	0
I	Incomplete work	0
W	Withdrawal from a course	0
WP	Withdrawal from the University passing	0
WF	Withdrawal from the University failing	0
AU	Audit	0

Incomplete

The incomplete grade of "I" is a temporary grade. An instructor may assign an "I" to a student who is passing but unable to complete the course requirements before the scheduled end of the term due to severe hardship beyond the control of the student, as determined by the instructor. An "I" must be redeemed by the end of the second term following the term for which the "I" was assigned. Incompletes which are not redeemed are automatically converted to course grades of "F" upon expiration of the redemption period. The center director/registrar may restrict the enrollment of students who have outstanding incompletes or a history of repeated incompletes.

Audit

Any student eligible for admission to the graduate program may register to audit any graduate course providing all prerequisite requirements are satisfied. Regular class attendance is required. A student who fails to maintain satisfactory attendance, as determined by the instructor, will be assigned a grade of "W". A student may change registration from audit to credit only during the "Add" period at the beginning of the term. The "Add" period is defined by the individual resident center in accordance with the terms of any contract or memorandum of understanding/agreement in force. A change of registration from credit to audit may be made only during the authorized withdrawal period.

Calculation of the Grade Point Average

The grade point average (GPA) is determined by dividing the number of grade points earned at Embry-Riddle by the total number of credit hours attempted. When a "W", "WP", "WF", "I", or "AU" grade is recorded for a course, the hour value does not count as hours attempted. A GPA for each term and a cumulative GPA (CGPA) are computed for each student for graduate work completed with the University. **A repeated course is considered an additional**

course. All attempts at a course will be included in the calculation of the GPA. Students must identify each course being repeated at the time of registration.

STANDARDS OF ACADEMIC PROGRESS

Academic Warning

Academic Warning is imposed and entered on the permanent record of students when the cumulative grade point average (CGPA) falls below 3.00 after the Performance Trial has been successfully completed. Since all students are on a trial basis for the first 12 credit hours, issuance of Academic Warning during the Performance Trial is redundant and will not be imposed. The imposition of Academic Warning is the first and only formal alert to students that their program of study is in jeopardy.

After the term in which the CGPA fell below 3.00, students placed on Academic Warning are entitled to attempt **no more than 12 additional graduate credit hours** in order to raise their CGPA to the required minimum of 3.00. Students on Academic Warning are subject to course load limitations imposed by the center director/registrar. Since a limited enrollment opportunity to remediate a grade point deficiency is provided, students on Academic Warning are still considered to be in good standing with the University.

Dismissal

Students are subject to dismissal from the graduate program when any of the following conditions occur:

1. Failure to successfully complete the Performance Trial by achieving a cumulative grade point average of at least 3.00 for the first 12 credit hours of Embry-Riddle graduate work attempted.
2. A third final course grade of less than a "B" has been assigned.
3. A second final course grade of "F" has been assigned.
4. The cumulative grade point average has not been raised to at least 3.00 within the next 12 graduate hours attempted after the term in which the CGPA fell below 3.00.
5. The cumulative grade point average has fallen below 2.50

The Dean of Academic Affairs reviews all cases of students subject to dismissal from the graduate program and makes the final determination of the action to be taken.

DEGREE COMPLETION TIME LIMIT

All requirements for an Embry-Riddle master's degree must be completed within seven (7) years from the date of initial enrollment.

CONTINUOUS ENROLLMENT

Students are not considered to be continuously enrolled if they:

1. Do not enroll in an Embry-Riddle graduate course for more than two years.

   or

2. Have been suspended or dismissed from the University.

   or

3. Did not complete an Embry-Riddle master's degree within the seven (7) year time limit.

Students who fail to maintain continuous enrollment for any reason must reapply for admission.

READMISSION TO THE GRADUATE PROGRAM

Application for readmission is made on the standard application for admission form and submitted to the center director. Documentation supporting the readmission must accompany the application. The Dean of Academic Affairs reviews all applications for readmission and renders the final acceptance decision. If the readmission is approved, the student must follow the provisions of the catalog in effect at the time of the first enrollment subsequent to the readmission. At the time of readmission, the criteria for transfer credit and advanced standing is applied to all previous graduate study, including previously completed Embry-Riddle graduate courses, and any relevant experience.

RESIDENT CREDIT

A minimum of 24 hours of graduate work including the last nine credit hours must be completed at Embry-Riddle to qualify for a master's degree. Students pursuing either of the dual degree options must complete a minimum of 48 credit hours of graduate work at Embry-Riddle.

GRADUATION REQUIREMENTS

Before an Embry-Riddle master's degree will be conferred on any student, the general requirements of the University and the specific requirements of the degree sought must be satisfied. A summary of the graduation requirements for all students follows:

1. Successfully complete all required courses listed in the applicable University graduate catalog for the degree sought.
2. Successfully complete a minimum of 36 graduate credit hours acceptable toward a single master's degree or 60 graduate credit hours for either dual degree option.
3. Satisfy the Embry-Riddle graduate residency requirement by completing the last nine graduate credit hours at Embry-Riddle and a minimum total of 24 Embry-Riddle graduate credit hours (48 for either dual degree option.)
4. Earn a cumulative GPA of at least 3.00 for all Embry-Riddle graduate work.

5. Satisfy all debts and obligations to the University.
6. Be recommended by the faculty, appropriate center director, and the Dean of Academic Affairs, International Campus.

Application for Graduation

A student may graduate at the end of any term. The application for any graduate degree must be submitted to the appropriate center director no later than the end of the registration period of the student's planned final term. Since diplomas are routinely ordered only three times per year and International Campus term dates vary, even a properly submitted graduation application may not be received and processed in time to be included in one of the orders. In this situation and when an application is submitted late, the student can anticipate a delay in receiving the diploma of as much as six (6) months after the term in which all requirements for graduation were completed.

TRANSCRIPT REQUESTS

Upon the written request of the student at the time of graduation, one complete transcript of record is furnished to the student without charge. For additional transcripts, a signed request for the academic transcript must be made by the student to the International Campus Student Records Office accompanied by a fee of $2.00. Transcripts, letters of recommendation or certifications of attendance will not be released for the students who have failed to meet their financial obligations to the University.

FINANCIAL INFORMATION

TUITION, FEES, AND DEPOSITS
PAYMENT REGULATIONS
REFUNDS
FINANCIAL AID
VETERANS' EDUCATIONAL BENEFITS
MILITARY TUITION ASSISTANCE

The University reserves the right to revise the fees, prices, schedules and terms of payment and other financial elements listed in this catalog at any time without advance notice. It is anticipated that inflationary trends will cause periodic adjustments to the schedule of tuition and fees listed below.

TUITION, FEES, AND DEPOSITS

Tuition and Deposits

Tuition levels are established to meet the costs of program operation and in accordance with contracts or memoranda of understanding/agreement. Hence, they may vary from one location to another.

	Per credit hour
United States Resident Centers	$ 100
European Resident Centers	$ 114
Daytona Beach Center	$ 140
Miami Education Consortium (established by the parties to the Consortium)	$ 115
Foreign Student Advance Tuition Deposit	$ 1,700

Fees (Non-Refundable)

Application Fee (one time):	
- U.S. Citizen and Permanent U.S. Residents	$ 15
* - Foreign Applicants	$ 50
*Foreign Student Service Fee (per term)	$ 50
Transcript Fee	$ 2
Lab Fees (depend on the course)	Variable

*The higher application fee and the service fee are assessed foreign students to help defray additional costs associated with processing applications and providing counseling and assistance on immigration and other matters unique to foreign students.

PAYMENT REGULATIONS

Registration, when accepted by the University, constitutes a financial contract between the University and the student. Failure to make payments of any amount owed the University when due is considered sufficient cause to suspend a student and withhold grades, transcripts, diplomas, and degrees until the debt has been satisfied. Full payment of tuition, fees, and textbook charges is due upon registration.

The advance tuition deposit required of foreign students must be received before any certificates of enrollment eligibility will be issued. The deposit will be applied ONLY to the full-time tuition charges for the student's first term. These funds are not available to the student for any other purposes. The deposit is refundable in full only if the student does not enroll or withdraws within the refund period and returns to the home country. Should part of the deposit remain after the first term tuition has been deducted and the "add" period has expired, the balance may be refunded. Refunds are made

directly to the student unless the University is provided specific guidance to the contrary.

REFUNDS

Students in good standing with the University at the time of withdrawal may be eligible for a refund. Tuition is refundable in full if a proper and acceptable withdrawal is accomplished before the close of business at the appropriate location on the day that marks the end of the first calendar week of a term or as stated in any contracts or memoranda of understanding/agreement in effect at the time. Refunds will not be made subsequent to that time.

FINANCIAL AID

Embry-Riddle makes every effort, within the limitations of its available financial resources, to assure that no qualified student is denied the opportunity to obtain an education because of inadequate financial resources. However, the primary responsibility for financing an education must be assumed by the student. Graduate students in need of financial assistance to enable them to pursue their educational goals should contact the center director at the location they wish to attend. The brochure entitled "Opportunities for Qualified Students" describes financial assistance available to graduate students and may be obtained at the resident center or by writing the International Campus Financial Aid director in Bunnell.

Financial aid applicants must meet University academic requirements and maintain the standards of satisfactory progress described in the Procedures and Regulations section of the catalog. For clarification of the applicable requirements and standards, contact the appropriate center director/registrar.

VETERANS' EDUCATIONAL BENEFITS

All Embry-Riddle graduate degree programs have been approved for Veterans Administration Educational Benefits. Students planning to use VA benefits should contact the appropriate center director as soon as possible prior to the start of the first term in which they plan to enroll. In order for the University to certify the enrollment of students wishing to receive veterans' benefits, the students **must have applied and been accepted** for enrollment as Embry-Riddle graduate students.

MILITARY TUITION ASSISTANCE

Military tuition assistance may be available to graduate students on active military duty. The Educational Services Officer at their assigned installation should be contacted for further information.

COURSE DESCRIPTIONS

AERONAUTICAL SCIENCE
MANAGEMENT SCIENCE
UNDERGRADUATE PREREQUISITES

COURSE DESCRIPTIONS

As the technology and challenges of aviation expand and new management techniques and theories are developed, the graduate program must be molded to keep pace. One method of introducing new material is through special courses offered, at least initially, only on a limited basis. When such courses or unique educational opportunities are offered, they will be identified with a course number having "95" as the last two digits. Courses involving individual, independent study and a one to one relationship with a faculty member are identified with a course number having "99" as the last two digits.

Aeronautical Science

AS 509 **Advanced Aerodynamics** 3 Credits
A study of current flight applications and problems that includes transonic and supersonic aerodynamics, principles of aircraft stability and control, and operational strength considerations. Prerequisite: AS 309.

AS 510 **Advanced Aircraft Performance** 3 Credits
An analysis of performance characteristics for transonic, supersonic and near space air vehicles powered by jet or rocket engines. Problems related to high speed and high altitude flight such as aeroelastic effects, compressibility drag, Reynold's Number effects, ram pressure rise and aerodynamic heating are explored. Prerequisite: AS 310 or the ATP certificate with a jet type rating.

AS 512 **Air Carrier Operations** 3 Credits
A study of air carrier flight operations from the viewpoints of the ground-based flight dispatcher and the cockpit flight crew. Topics include flight planning, aircraft performance and loading considerations, impact of weather conditions, routing priorities, etc. The course is adequate preparation for the FAA Aircraft Dispatcher written test. Prerequisites: AS 103, AS 201, AS 202 and AS 310.

AS 515 **Simulation in Aviation** 3 Credits
A comprehensive examination of simulation in modern aviation that includes the history, "state of the art", and current research and development. Discussion focuses on the extent and impact of simulator application and the effects on training costs and safety.

AS 530 **Corporate Aviation Operations** 3 Credits
The establishment and operation of a corporate flight department is examined. The procedures and techniques generally accepted as standards by professional

corporate flight operations are treated relative to individual corporate experiences. Included is a practical view of the corporate aviation mission of management mobility and use of the resources available to accomplish it.

AS 601 **Advanced Meteorology** 3 Credits
Course topics include the derivation and application of the hydrostatic equation, atmospheric kinematics, derivation of the equation of continuity, development of thermal wind, fundamental weather analysis, high altitude and radar meteorology, air pollution, and solar impact on weather. The student practices current weather analysis and short range weather forecasting. Prerequisites: AS 201, MA 112, and Commercial/Military Pilot certificate.

AS 606 **Aviation Control/Communication Systems** 3 Credits
A detailed analysis of current and future developments and trends in the control of air traffic that includes the evolution of current national policies and plans and their objectives. The recent and planned improvements for each major component of the ATC system are examined individually and as part of the system as a whole. Prerequisites: AS 103 and AS 202, or Commerical/Military Pilot certification with Instrument rating.

AS 607 **Advanced Aircraft Systems** 3 Credits
"State-of-the-art" aircraft systems and projections of research trends for future air vehicle requirements and applications are studied. Topics include the capabilities and limitations of current aircraft propulsion, electrical, environmental, control and hydraulic systems and sub-systems. The total aircraft design and the interdependence of aircraft system design constraints are emphasized. Prerequisite: AS 210 or AMT 370.

AS 608 **Aircraft Accident Investigation and Aviation Safety** 3 Credits
A critical analysis of selected aircraft accidents and evaluation of causal factors. Particular emphasis is placed on study of the human factors connected with flight and support crew activities in aviation operations. Identification and implementation of accident prevention measures are stressed as integral parts of the development of a complete safety program.

AS 609 **Aircraft Maintenance Management** 3 Credits
A detailed analysis of commercial air carrier and general aviation aircraft maintenance that includes regulation, organization and structure, capabilities and lim-

itations, maintenance levels, inspection and reporting requirements, and prevention and correction inspections. Case studies of typical and unique maintenance scenarios are utilized. A major course objective is to heighten awareness of the critical interface of maintenance with flight, supply and training activities. Prerequisite: MS 305 or the equivalent of the principles of management.

AS 634 **Aviation Psychology** **3 Credits**
A study of the complexities of human factors research in aviation. Drawing extensively on such diverse areas as human physiology, basic learning theory, aviation safety and pilot training, the course surveys the study of human behavior as it relates to the aviator's adaptation to the environment and attempts to design an occupant "friendly" flight deck environment. Prerequisite: Commerical/Military Pilot certification with Instrument rating.

AS 636 **Advanced Aviation Planning Concepts** **3 Credits**
Planning and decision-making techniques and strategies used by the aviation manager. The types and sources of data needed for decisions about route development and expansion, fleet modernization and new markets are examined. The methods of analyzing this data through computer applications, modeling, simulation, heuristics, value theory, and payoff tables are studied. The application and limitations of these tools are discussed. Prerequisites: MS 305, EC 210 and EC 211 or the equivalent of the principles of management, microeconomics, and macroeconomics.

AS 640 **Supply and Distribution in the Aviation Industry** **3 Credits**
A study of the elements of physical distribution that includes the structure of supply organizations, priority systems, cost categories, inventory control, and the applications of electronic data processing. Case studies are employed to analyze supply management in terms of customer satisfaction relative to the costs incurred. Prerequisites: MS 305 or the equivalent of the principles of management.

AS 641 **Production and Procurement in the Aviation Industry** **3 Credits**
The evolution of an air carrier aircraft from design concept to delivery is examined from the perspectives of the purchaser, manufacturer, component manufacturers, operator, and certificator/regulator. Study of

the process begins with demand analysis and continues through purchase contracting, manufacturing, marketing, certification, pre-delivery activities, and introduction into service. Prerequisites: MS 305, EC 210 and EC 211 or the equivalent of the principles of management, microeconomics, & macroeconomics.

AS 642 **Research and Development for the Aviation Industry** **3 Credits**
The types and sources of aviation research and development are analyzed through study of the structure and interrelationship of the industry, educational institutions, and other organizations. Sources and methods of funding, specification determination, the relationship of research and development to procurement and production, and the regulatory and other factors affecting progress from initial development to production of aircraft and components. Prerequisites: MS 305, EC 210 and EC 211 or the equivalent of the principles of management, microeconomics, & macroeconomics.

AS 699 **Special Project** **1-3 Credits**
Students may elect to perform a special, directed analysis and/or independent study in an area of particular interest. A detailed proposal of the desired project must be developed and presented to the center director for approval at least three weeks prior to the end of registration for a term. Prerequisite: Consent of the faculty member and approval of the center director.

Management Science

MS 500 **Government Role in Aviation** **3 Credits**
A study of the evolution of governmental involvement in the promotion and regulation of aviation and the changes resulting from deregulation. The interaction between governmental agencies and the aviation industry is examined with particular emphasis on the role of government in the resolution and achievement of both social and aviation goals.

MS 570 **International Developments in Aviation** **3 Credits**
A comprehensive analysis of current international aviation issues. Particular attention is paid to U.S. international air services, and the cooperative efforts of nations toward providing safe and standardized airways and airports throughout the world. The effects of national, social, economic, and political goals on aviation and the methods for resolving international disagreements are also examined.

MS 590 **Accounting Review** **4 Credits**

An introduction to financial and managerial accounting; includes double entry accounting, income statement, balance sheet, interpretation of accounts, partnerships and corporations, and the cost, differential, and responsibility accounting aspects of managerial accounting. In order to satisfy the accounting prerequisite requirements, a student must pass a comprehensive examination in accounting. **Credit for this course is not applicable to the requirements of any Embry-Riddle degree.**

MS 591 **Economics Review** **4 Credits**

An introduction to economic principles, problems, and policies with an emphasis on macro and microeconomic theories, business fluctuations, fiscal and monetary policy, economic growth, and current domestic economic problems. In order to satisfy the economics prerequisite requirements, a student must pass a comprehensive examination in economics. **Credit for this course is not applicable to the requirements of any Embry-Riddle degree.**

MS 601 **Operations Research in the Airline Industry** **3 Credits**

Operations research has been and will continue to be an important technique for the optimal utilization of resources in the airline industry. This course is an introduction to the applications of linear programming, probability analysis, queuing theory, and correlation and regression analysis to problems of marketing, route selection, flight and crew scheduling, fleet planning, reservations, inventory control, etc. Prerequisite: MA 211 or MA 222 or the equivalent of probability and statistics.

MS 602 **Principles of Air Transportation** **3 Credits**

A study of air transportation as part of a foreign and domestic, multi-modal transportation system. The evolution of the technological, economic, social, and political aspects of the system in this century is reviewed. Long and short-term effects of deregulation and scarce energy are examined. Passenger and freight transportation, and common and private carriage in each mode are studied relative to the changing system as a whole and air transportation in particular. Prerequisites: MS 305, EC 210 and EC 211 or the equivalent of the principles of management, microeconomics, & macroeconomics.

MS 603 **Analysis of Data Base Management Systems** 3 Credits

A study of software systems designed for managing the storage, access, update, and maintenance of a data base. Emphasis is placed on identifying and understanding the capabilities and cost-effectiveness of current Data Base Management Systems (DBMS) and the advantages and disadvantages of using DBMS in modern business applications. Basic concepts of data structures are reviewed. Prerequisite: MS 621.

MS 607 **Human Resource Development** 3 Credits

This course emphasizes the integration of the individual into the organization by studying the current and fundamental issues in organization theory and organizational behavior as they relate to the individual. The effectiveness of the individual in the organization is examined in terms of personal traits such as communicative abilities, leadership style and potential, and beliefs about organizational ethics and social responsibility. Prerequisite: MS 305 or the equivalent of the principles of management.

MS 609 **Airline Operations and Management (Formerly MS 605)** 3 Credits

An integrated study of the components and characteristics of airline operations and the functions of management. The characteristics and categories of air carriers and their role in serving national and international air transportation needs are examined. Airline organizational elements and functions such as structure, planning, and line and staff responsibilities are also explored. Prerequisite: MS 305 or the equivalent of the principles of management.

MS 611 **Quantitative Methods in Business** 3 Credits

A comprehensive survey of the quantitative analysis techniques and concepts available for use in management. Course topics include an introduction to a variety of quantitative methods, analysis of their strengths and limitations, and illustrations of their application to the solution of actual problems. Prerequisites: MA 211 or MA 222 or the equivalent of probability and statistics.

MS 613 **Personnel Management and Industrial Relations** 3 Credits

The theories, structures, and techniques relative to the utilization of human resources in any organization. Personnel management systems and processes are stud-

ied in an environment of rapid social, economic, and technological change. Other topics include job motivation and satisfaction relative to productivity; interrelationship of human and organizational goals and the achievement of both; decision-making processes within union and non-union organizations. Prerequisite: MS 305 or the equivalent of the principles of management.

MS 614 **Marketing Analysis** **3 Credits**
The role of the marketing manager and marketing in the firm and society is examined. Emphasis is on the development of the marketing mix (product, price, place and promotion) and its relevance to the other functional areas of the firm.

MS 615 **Current Problems in Aviation** **3 Credits**
An analysis of the significant current issues in various areas of civil aviation with particular attention paid to the economic problems and competitive strategies of airlines, regulatory evolution, airport and airspace congestion, and the conflicting interests of the many parties involved.

MS 617 **Advanced Financial and Managerial Accounting** **3 Credits**
The application of financial accounting standards, concepts, and principles using problem-solving and case study approaches. Selected cases will also address managerial planning, control, and decision-making. Prerequisites: MS 210, MS 212, and MS 312 or the equivalent of the principles of financial and managerial accounting.

MS 618 **Corporate Finance** **3 Credits**
A crucial and timely study of current financial concepts, techniques, and issues emphasizing administrative and managerial applications. Topics include financial policy, planning and control of assets, liabilities and owner's equity, and incorporation into financial accounts and statements. Prerequisites: MS 210, MS 212, and MS 312 or the equivalent of the principles of financial and managerial accounting.

MS 620 **Managerial Psychology** **3 Credits**
An examination of the causes and implications of human behavior in the organizational environment. Course topics include: evaluation of the comparative theories that explain and describe human behavior; behavior causation and modification; perception; personality; learning theory; motivation and work; systems psychology; influencing behavior.

MS 621 **Introduction to Decision Support Systems** **3 Credits**
A study of general systems concepts, purposeful systems within organizations, decision and information systems, planning and control systems, and project management and evaluation systems. Prerequisite: CS 105 or CS 109 or a course in basic programming. (NOTE: This course is a revision of MS 612, Management Information Systems, a course that was formerly offered.)

MS 622 **Decision Support Systems Analysis and Design** **3 Credits**
Course topics include: review and analysis of old decision support systems; determining new system requirements; data collection techniques; feasibility assessment; design procedures; flow charting and documentation; system simulation; cost/benefit analysis; system implementation; user concerns; management involvement. Prerequisite: MS 621.

MS 623 **Decision Support Systems Applications: Student Projects** **3 Credits**
Case studies and student projects involving actual organizational systems in areas such as office automation, inventory, airline reservations, aircraft maintenance control and analysis. This course is the pragmatic capstone to the Decision Support Systems series. Prerequisites: MS 603, MS 621, and MS 622.

MS 625 **Airline Marketing Management** **3 Credits**
A study of the functions and basic concepts of marketing air transportation services. Discussion includes passenger and cargo markets, determinants of travel demand, growth factors, seasonality, and cargo traffic categories and characteristics. Product and service elements, roles of advertising and travel agents, marketing unit structure, pricing and cost environment, and schedule planning are also among the topics examined. Prerequisites: EC 210 and EC 211 or the equivalent of the principles of microeconomics and macroeconomics.

MS 632 **Aviation Labor Relations** **3 Credits**
An introduction to labor law as applied to the aviation industry. Topics include: labor union organization and constituency representation; the collective bargaining process; typical labor contract terms and provisions; grievance, mediation, and arbitration procedures; contract administration; labor actions; restrictive employment practices; Title VII of the Civil Service Reform Act of 1978. Prerequisite: MS 305 or the equivalent of the principles of management.

MS 635 **Business Policy Analysis** **3 Credits**
Policy and strategy formulation in all of the functional areas of management within a constrained environment are examined via case studies. This "capstone" course includes a competitive management simulation game in which students must make decisions on personnel, production, marketing, pricing, and finance issues. Prerequisites: MS 611, MS 614, and MS 618.

MS 638 **Managerial Economics** **3 Credits**
This course covers the underlying principles, laws, structure, and theories of microeconomics as applied to managerial decision-making in profit and non-profit organizations. Demand theory and analysis, the role of cost, profit maximization, market structure identification, and public-sector economics are explored. Prerequisites: EC 210 and EC 211 or the equivalent of the principles of microeconomics and macroeconomics.

MS 645 **Airport Management** **3 Credits**
A study of the major airport management functions, especially planning, development, and operations. The management of on-site activities by airport tenants and their relationship with the airport operator are analyzed. The current problems confronting airports in areas such as regulation, financing, revenue generation, cost control, establishment of rent and user charges, safety, security, and the socioeconomic relationship of the airport to the community it serves are explored. Prerequisite: MS 305 or the equivalent of the principles of management.

MS 655 **Aviation Law and Insurance** **3 Credits**
Examination of the governmental regulatory functions affecting statutory and administrative law pertaining to aviation. The national and international impact of these laws on aviation policies and operations are studied. The legal aspects of business contracts, negotiable instruments, and the commercial code as they relate to aviation are analyzed. The course concludes with an overview of the principles of insurance and risk as they apply to aviation.

MS 699 **Special Project** **1-3 Credits**
Students may elect to perform a special, directed analysis and/or independent study in an area of particular interest. A detailed proposal of the desired project must be developed and presented to the center director at least three weeks prior to the end of the registration for a term. Prerequisite: Consent of the faculty member and approval of the center director.

Prerequisite Course Descriptions - Embry-Riddle Undergraduate Courses

AMT 280 **Powerplant Theory and Applications** **4 Credits**
An in-depth study of the reciprocating engine to include theory, ignition, fuel metering, lubrication, exhaust, engine installation and overhaul. (Type 65)

AMT 370 **Airframe Systems and Applications** **4 Credits**
A study of airplane electrical, hydraulic, pneumatics, environmental, fuel, landing gear, and auxilliary systems. (Type 65)

AMT 380 **Aircraft Propulsion Systems and Applications** **4 Credits**
A comprehensive study of theory, principles of operation, controls and systems for propellers and turbine engines. (Types 65)

AS 100 **Foundations of Aeronautics** **4 Credits**
Aerodynamics, engines, systems, Federal Aviation Regulations, navigation, meteorology, communication, Airman Information Manual, and flight physiology. Student is eligible to take FAA Private Pilot written examination upon satisfactory completion.

AS 102 **Navigation I** **3 Credits**
Chart development, time zones, scales, wind triangles, flight log preparation, flight planning, electronic navigation.

AS 103 **Flight Rules and Regulations** **3 Credits**
Parts 1, 67, 71, 91, 97, and 135 of the FARs and Part 830 of the National Transportation Safety Board.

AS 201 **Meteorology I** **3 Credits**
Atmospheric processes, cloud identification, basic stability problems, air masses, jet stream, aeronautical codes and weather maps.

AS 202 **Navigation II** **3 Credits**
Aerodynamic fundamentals, attitude instrument flying, principles and limitations of flight instruments, navigation radios and facilities, ATC procedures, airway system and charts, regulations and publications related to instrument flight rules (IFR).

AS 203 **Aircraft Engines - Reciprocating** **3 Credits**
Mechanical relationships, components, construction, power calculations, carburetion, induction, fuel-air requirements, and federal regulations.

AS 210 **Aircraft Systems and Components** **3 Credits**
Electrical, environmental, hydraulic, fuel, ignition, and lubrication systems including theory of operation and calculations.

AS 309 **Basic Aerodynamics** **3 Credits**
Incompressible flow, airfoil theory, wing theory, configuration changes, high and low speed conditions, special flight conditions, and an introduction to compressible flow. Calculation of stall speed, drag, and basic performance criteria.

AS 310 **Aircraft Performance** **3 Credits**
Aerodynamic performance of aircraft powered by reciprocating, turboprop, or jet turbine engines. Stability and control, weight and balance, and operating data.

AS 311 **Aircraft Engines - Turbine** **3 Credits**
Thrust factors, gas generators, Mach effects, diffusion, turbofans, and turboprops.

CS 105 **Introduction to Computers in Aviation** 3 Credits
Diverse exposure to the digital computer and its uses and capabilities as a management tool in the aviation field. Topics include basic introduction to systems analysis and management information systems. Contrasts hardware capabilities, programming requirements, and systems analysis and planning.

CS 109 **Introduction to Computer Programming with BASIC** 3 Credits
Concepts of algorithms, computers, and programming. Hands-on computer programming in BASIC. Student develops an appreciation for the kinds of tasks that can (or cannot) be performed by the computer, and the types of analysis and programming necessary to achieve desired results.

EC 210 **Microeconomics** 3 Credits
An introduction to economic principles, problems, and policies with emphasis on microeconomic theory and current domestic problems.

EC 211 **Macroeconomics** 3 Credits
An introduction to economic principles, problems, and policies with emphasis on macroeconomic theory, business fluctuation, fiscal and monetary policy, and economic growth.

MA 112 **College Mathematics for Aviation II** 3 Credits
Basic calculus designed for the student of aviation. Differentiation and integration of algebraic functions; applications to velocity, acceleration, area, curve sketching, and computation of extreme values.

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 distributions 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 application of these topics in aviation.

MA 222 **Business Statistics** 3 Credits
Measures of central tendancy 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.

MS 210 **Financial Accounting I** 3 Credits
Fundamental principles applicable to the accounting cycle, asset valuation, income determination, financial reporting, the owner's equity.

MS 212 **Financial Accounting II** 3 Credits
Fundamental principles applicable to financial statement analysis, funds and cash flow reporting, price level changes and income tax interperiod allocation.

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.

MS 312 **Managerial Accounting** 3 Credits

Emphasizes the conceptual, measurement, and communication aspects essential for the interpretation and use of accounting information for management purposes. These aspects will be stressed by treating three areas of cost within the field of management accounting: full cost accounting; differential accounting; and responsibility accounting.

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