Employer Feedback Survey
Class of 2001
Survey Materials

January 13, 2003

«SUPERVISOR»
«DEPARTMENT»
«EMPLOYER»
«STREET»
«CITY», «STATE» «ZIP»

Dear Supervisor:

Embry-Riddle is evaluating how its academic programs are meeting employers' needs and expectations. The best input we receive comes from the supervisors of our recent graduates. Our class of 2001 graduate, «FNAME» «MNAME» «LNAME» («DEGDESC» «SPEC1TXT»), provided your address so that we could contact you for this essential information.

Your response is extremely important to us because only a small sample of employers have received the enclosed survey. Your input will be combined with other employers to give us an overall picture of our graduates. With your feedback, we can tailor our programs to produce graduates that companies like yours desire.

The survey will take only a few minutes to complete. Some supervisors may have received surveys for multiple employees. We sincerely appreciate your time in filling each form out separately. Be assured that all of your responses are confidential. The code number listed on all correspondence is for non-respondent follow up only. A postage-paid envelope is included for your convenience. As an alternative, the questionnaire can be completed online at http://irweb.erau.edu/employersurvey.htm. Please reply by **February 3.** If the individual listed on this letter no longer reports directly to you please forward this to the new supervisor, if possible, or return it to Embry-Riddle.

Thank you for helping ERAU provide its graduates with the qualifications necessary for the employment world of the twenty-first century!

Sincerely,

George H. Ebbs, Ph.D.
President

Questions?
Please contact Tara Battistoni, Office of Institutional Research at
(386) 226-6225 or instrsch@erau.edu

«CODE1»

February 24, 2003

«SUPERVISOR»
«DEPARTMENT»
«EMPLOYER»
«STREET»
«CITY», «STATE» «ZIP»

Dear Supervisor:

Recently, you received Embry-Riddle's Employer Feedback Survey asking you to help us evaluate how our academic programs are meeting employers' needs and expectations. A member of our 2001 graduating class, «FNAME» «MNAME» «LNAME» («DEGDESC» «MASSPEC1»), provided your address so that we could contact you for this important information.

We know that you are busy, but I hope you can find time to fill out and return the enclosed questionnaire. As the supervisor of a recent ERAU graduate, your opinion is particularly valuable. The employment world of the twenty-first century is highly demanding and we want to know how to best prepare our students. Your input will be combined with other employers to give us an overall picture of our graduates. The feedback you provide will help us tailor our programs to produce graduates who will succeed in businesses like yours.

The survey will take only a few minutes to complete. Some supervisors may have received surveys for multiple employees. We sincerely appreciate your time in filling each form out separately. Be assured that all of your responses are confidential. The code number listed on all correspondence is for non-respondent follow up only. A postage-paid envelope is included for your convenience. As an alternative, the questionnaire can be completed online at http://irweb.erau.edu/employersurvey.htm. Please reply by **March 17.** If the individual listed on this letter no longer reports directly to you please forward this to the new supervisor, if possible, or return it to Embry-Riddle.

If you have already sent out your reply, kindly disregard this notice. Thank you!

Sincerely,

George H. Ebbs, Ph.D.
President

Questions?
Please contact Tara Battistoni, Office of Institutional Research at
(386) 226-6225 or instrsch@erau.edu

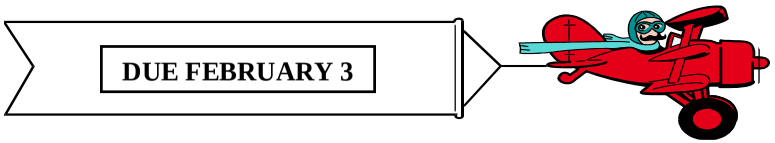
«CODE2»

HAVE YOU RESPONDED TO THE EMBRY-RIDDLE EMPLOYER FEEDBACK SURVEY?

*If you have not yet responded, please take a few minutes to COMPLETE and RETURN the survey.

*If you have misplaced or did not receive your Employer Feedback Survey, please contact the Office of Institutional Research at (386) 226-6225 or instrsch@erau.edu

Your participation is greatly appreciated. Thank you to those who have already responded!



2003 EMPLOYER FEEDBACK SURVEY
Embry-Riddle Aeronautical University

DIRECTIONS: For each question, completely fill in the oval that matches your response. Use ONLY blue or black ink, or a no. 2 pencil. All responses are confidential and will NOT be shared with your employee.

YOU AND YOUR COMPANY

1. Approximately how many ERAU graduates do you know professionally?
   ○ 1 ○ 2-5 ○ 6-10 ○ 11-50 ○ Over 50
2. How many ERAU graduates do you currently supervise?
   ○ 1 ○ 2-5 ○ 6-10 ○ 11-20 ○ Over 20
3. Did you graduate from ERAU?
   ○ Yes ○ No
4. What is your level of involvement in the hiring of new workers at your current company?
   ○ Make Final Decision ○ Provide Input ○ No Involvement (skip to question #6)
5. What is your preference for hiring graduates?
   ○ Strong Preference for ERAU Graduates ○ Some Preference for ERAU Graduates ○ No Preference ○ Some Preference for Other Graduates ○ Strong Preference for Other Graduates

THE ERAU GRADUATE

Consider the ERAU graduate listed on your cover letter when answering the following questions.

6. The education of the ERAU graduate meets our company's needs.
   ○ Strongly Agree ○ Agree ○ Neutral ○ Disagree ○ Strongly Disagree
7. Compared to graduates from other institutions, his/her knowledge and skill level is:
   ○ Much Higher ○ Somewhat Higher ○ Equivalent ○ Somewhat Lower ○ Much Lower
8. He/she is a valuable employee.
   ○ Strongly Agree ○ Agree ○ Neutral ○ Disagree ○ Strongly Disagree
9. He/she is a good candidate for promotion.
   ○ Strongly Agree ○ Agree ○ Neutral ○ Disagree ○ Strongly Disagree

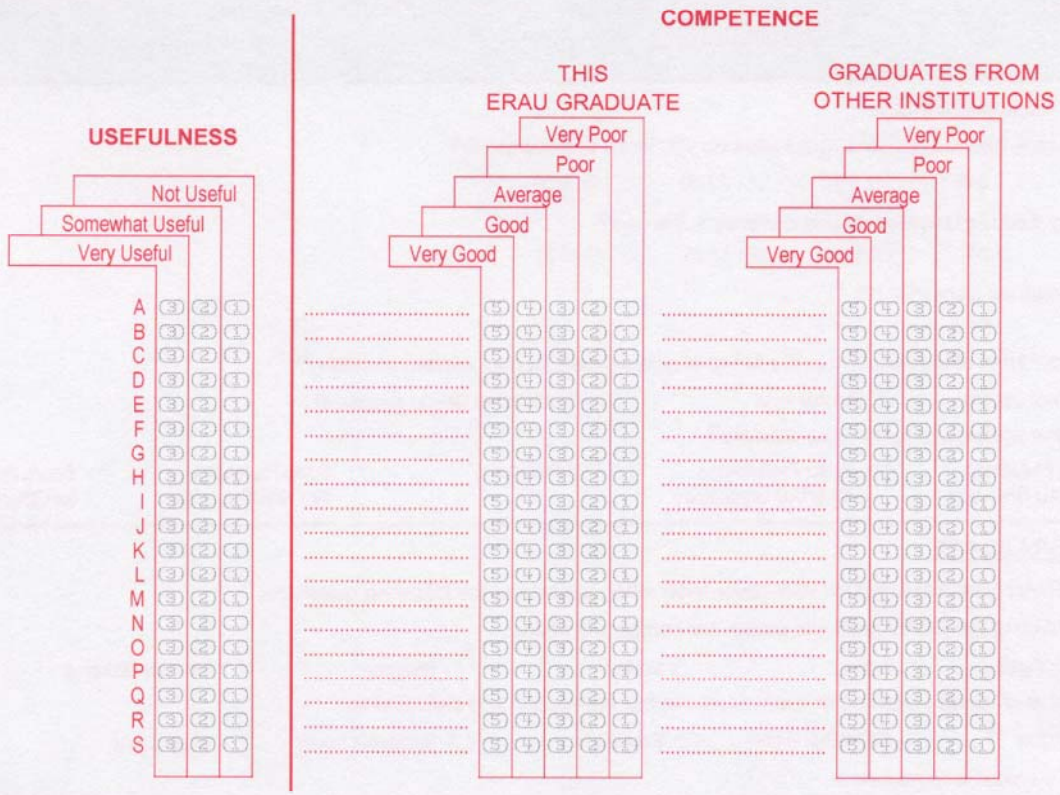
10. For each general skill listed below, provide a response for:

    Usefulness: How useful the skill is at the employee's position
    Competence: The level of competence at the skill shown by this ERAU graduate vs. graduates from other institutions (leave Competence blank if you rate the skill as NOT USEFUL)

	USEFULNESS	COMPETENCE: THIS ERAU GRADUATE	COMPETENCE: GRADUATES FROM OTHER INSTITUTIONS
	Not Useful / Somewhat Useful / Very Useful	Very Poor / Poor / Average / Good / Very Good	Very Poor / Poor / Average / Good / Very Good
Quantitative/mathematics	○ ○ ○	..... ○ ○ ○ ○ ○	..... ○ ○ ○ ○ ○
Basic PC software (word processing, spreadsheets, etc.)	○ ○ ○	..... ○ ○ ○ ○ ○	..... ○ ○ ○ ○ ○
Writing skills (non-technical)	○ ○ ○	..... ○ ○ ○ ○ ○	..... ○ ○ ○ ○ ○
Technical writing	○ ○ ○	..... ○ ○ ○ ○ ○	..... ○ ○ ○ ○ ○
Speaking before an audience	○ ○ ○	..... ○ ○ ○ ○ ○	..... ○ ○ ○ ○ ○
Applied research (information gathering and analysis)	○ ○ ○	..... ○ ○ ○ ○ ○	..... ○ ○ ○ ○ ○
Critical thinking	○ ○ ○	..... ○ ○ ○ ○ ○	..... ○ ○ ○ ○ ○
Independent work	○ ○ ○	..... ○ ○ ○ ○ ○	..... ○ ○ ○ ○ ○
Planning, scheduling, and carrying out projects	○ ○ ○	..... ○ ○ ○ ○ ○	..... ○ ○ ○ ○ ○
Defining and solving problems	○ ○ ○	..... ○ ○ ○ ○ ○	..... ○ ○ ○ ○ ○
Working in groups/teams	○ ○ ○	..... ○ ○ ○ ○ ○	..... ○ ○ ○ ○ ○
Leading/guiding others	○ ○ ○	..... ○ ○ ○ ○ ○	..... ○ ○ ○ ○ ○
Responsible actions and decision making	○ ○ ○	..... ○ ○ ○ ○ ○	..... ○ ○ ○ ○ ○
Understanding other people and other points of view	○ ○ ○	..... ○ ○ ○ ○ ○	..... ○ ○ ○ ○ ○
Environmental awareness	○ ○ ○	..... ○ ○ ○ ○ ○	..... ○ ○ ○ ○ ○
Political and economic awareness	○ ○ ○	..... ○ ○ ○ ○ ○	..... ○ ○ ○ ○ ○

OVER...

11. Locate the separate blue flyer containing degree-specific skills taught in the ERAU graduate's degree program. If you do not have a separate blue flyer, please skip to question #12. For each skill listed, provide a response for Usefulness and Competence as in the previous question. Remember to leave Competence blank if you rate the skill as NOT USEFUL.



12. Considering this ERAU graduate, what strengths do you perceive in his/her degree program?

13. Considering this ERAU graduate, what weaknesses do you perceive in his/her degree program?

14. Additional comments that may assist ERAU in evaluating its degree programs:

THANK YOU FOR YOUR PARTICIPATION! PLEASE USE THE POSTAGE-PAID ENVELOPE PROVIDED AND RETURN SURVEY BY MARCH 17, 2003 TO:

Embry-Riddle Aeronautical University
Office of Institutional Research
600 S. Clyde Morris Boulevard
Daytona Beach, FL 32114-3900

AS AIRCRAFT MAINTENANCE
DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #11. Record all ratings on the survey itself, NOT on this flyer.

A. General knowledge of maintenance operations and safety
B. Electrical and electronic systems operations
C. Skills in metallic and non-metallic structures and repair
D. Understanding of a/c systems (hydraulics, environmentals, etc.)
E. Knowledge of reciprocating and turbine engines and their respective systems
F. Knowledge and ability to work with technical publications and manuals
G. Skills in troubleshooting
H. Use of precision measuring instruments and basic and special tools
I. Understanding and knowledge of FAA regulations

BS AERONAUTICAL SCIENCE
DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #11. Record all ratings on the survey itself, NOT on this flyer.

A. Understanding aerodynamic performance of aircraft powered by reciprocating and turbine engines
B. Use of electronic navigation and flight control systems
C. Crew coordination (cockpit resource management)
D. Knowledge of flight physiology, awareness of flight psychology (human factors)
E. Awareness of safety and accident prevention
F. Understanding the concepts and process of meteorology
G. Instrument flight skill
H. Multi-engine/high performance aircraft operations
I. Knowledge of Federal Aviation Regulations
J. Aeronautical decision making (judgement skills)
K. Actions, attitudes, and knowledge of security considerations

BS AEROSPACE ENGINEERING
DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #11. Record all ratings on the survey itself, NOT on this flyer.

A. Apply knowledge of mathematics and science
B. Design and conduct experiments
C. Analyze and interpret experimental data
D. Apply knowledge of aerodynamics
E. Apply knowledge of aircraft performance
F. Apply knowledge of stability and control
G. Apply knowledge of aerospace materials
H. Apply knowledge of aircraft and spacecraft structures
I. Apply knowledge of propulsion
J. Apply knowledge of orbital mechanics
K. Apply knowledge of spacecraft dynamics
L. Apply knowledge of control systems
M. Apply knowledge of circuits, electronics, and instrumentation
N. Identify, formulate, and solve engineering problems
O. Use the techniques, skills, and modern engineering tools necessary for engineering practice
P. Design an aircraft or spacecraft system, component, or mission to meet desired needs
Q. Understand the impact of engineering decisions on society and the environment
R. Understand professional and ethical responsibility
S. Recognize the need to continue professional development throughout one's career

BS AEROSPACE STUDIES
DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #11. Record all ratings on the survey itself, NOT on this flyer.

A. Effective communication skills
B. Interpretation of written material
C. Analytical thinking
D. International perspectives
E. Understanding of basic statistics
F. Cultural awareness
G. Interdisciplinary knowledge and skills

BS AIRCRAFT ENGINEERING TECHNOLOGY
DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #11. Record all ratings on the survey itself, NOT on this flyer.

A. Aerodynamics/performance
B. Structures
C. Propulsion
D. Dynamic systems and control
E. Material science
F. Manufacturing processes
G. Non-destructive testing
H. Measurement and testing
I. Reliability/maintainability

BS AVIATION BUSINESS ADMINISTRATION
DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #11. Record all ratings on the survey itself, NOT on this flyer.

A. Understanding and applying management theory/concept
B. Understanding and using accounting and financial information
C. Understanding how the economic system works
D. Awareness of personnel practices
E. Applying statistical and/or quantitative techniques to problem solving
F. Understanding of the global interconnectivity in the business world
G. Awareness of how ethical behavior is in the self-interest of both the company and the individual
H. Ability to access, analyze, and present information using appropriate technology

BS AVIATION MAINTENANCE MANAGEMENT
DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #11. Record all ratings on the survey itself, NOT on this flyer.

A. Understanding and applying management theory/concepts
B. Understanding and using accounting and financial information
C. Understanding how the market system works
D. Awareness of personnel procedures, collective bargaining, and the legal obligations of managements
E. Applying statistical and/or quantitative techniques to problem solving

BS AVIATION MAINTENANCE MANAGEMENT (AVIONICS) DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #11. Record all ratings on the survey itself, NOT on this flyer.

A. Understanding and applying management theory/concepts
B. Understanding and using accounting and financial information
C. Understanding how the market system works
D. Awareness of personnel procedures, collective bargaining, and the legal obligations of managements
E. Applying statistical and/or quantitative techniques to problem solving

BS AVIATION MAINTENANCE MANAGEMENT (MAINTENANCE) DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #11. Record all ratings on the survey itself, NOT on this flyer.

A. Understanding and applying management theory/concepts
B. Understanding and using accounting and financial information
C. Understanding how the market system works
D. Awareness of personnel procedures, collective bargaining, and the legal obligations of managements
E. Applying statistical and/or quantitative techniques to problem solving
F. General knowledge of maintenance operations and safety
G. Electrical and electronic systems operations
H. Skills in metallic and non-metallic structures and repair
I. Understanding of a/c systems (hydraulics, environmentals, etc.)
J. Knowledge of reciprocating and turbine engines and their respective systems
K. Knowledge of and ability to work with technical publications and manuals
L. Skills in troubleshooting
M. Use of precision measuring instruments and basic and special tools
N. Understanding and knowledge of FAA regulations

BS AVIATION TECHNOLOGY (AVIONICS/FLIGHT) DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #11. Record all ratings on the survey itself, NOT on this flyer.

A. General knowledge of maintenance operations and safety
B. Knowledge of and ability to work with technical publications and manuals
C. Skills in troubleshooting
D. Use of precision measuring instruments and basic and special tools
E. Understanding and knowledge of FAA regulations
F. Use of electronic navigation and flight control systems
G. Crew coordination (cockpit resource management)
H. Knowledge of flight physiology, awareness of flight psychology (human factors)
I. Awareness of safety and accident prevention
J. Understanding the concepts and process of meteorology
K. Instrument flight skill
L. Multi-engine/high performance aircraft operations
M. Aeronautical decision making (judgement skills)
N. Basic and advanced electronics analysis and theory
O. Avionics equipment and system analysis
P. Avionics/electronics system test, analysis, and repair

BS AVIATION TECHNOLOGY (MAINTENANCE/AVIONICS) DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #11. Record all ratings on the survey itself, NOT on this flyer.

A. General knowledge of maintenance operations and safety
B. Skills in metallic and non-metallic structures and repair
C. Understanding of a/c systems (hydraulics, environmentals, etc.)
D. Knowledge of reciprocating and turbine engines and their respective systems
E. Knowledge of and ability to work with technical publications and manuals
F. Skills in troubleshooting
G. Use of precision measuring instruments and basic and special tools
H. Understanding and knowledge of FAA regulations
I. Basic and advanced electronics analysis and theory
J. Avionics equipment and system analysis
K. Avionics/electronics system test, analysis, and repair

BS AVIATION TECHNOLOGY (MAINTENANCE/FLIGHT)
DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #11. Record all ratings on the survey itself, NOT on this flyer.

A. General knowledge of maintenance operations and safety
B. Skills in metallic and non-metallic structures and repair
C. Understanding of a/c systems (hydraulics, environmentals, etc.)
D. Knowledge of reciprocating and turbine engines and their respective systems
E. Knowledge of and ability to work with technical publications and manuals
F. Skills in troubleshooting
G. Use of precision measuring instruments and basic and special tools
H. Understanding and knowledge of FAA regulations
I. Electrical and electronic systems operations
J. Understanding aerodynamic performance of aircraft powered by reciprocating and turbine engines
K. Use of electronic navigation and flight control systems
L. Crew coordination (cockpit resource management)
M. Knowledge of flight physiology, awareness of flight psychology (human factors)
N. Awareness of safety and accident prevention
O. Understanding the concepts and process of meteorology
P. Instrument flight skill
Q. Multi-engine/high performance aircraft operations
R. Aeronautical decision making (judgement skills)

BS AVIONICS ENGINEERING TECHNOLOGY
DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #11. Record all ratings on the survey itself, NOT on this flyer.

A. Basic and advanced electronics analysis and theory
B. Avionics system analysis and design
C. Avionics/electronics system test
D. Applied mechanical engineering concepts
E. Basic design and engineering concepts
F. Applications software and programming
G. Reliability/maintainability
H. Systems integration

BS CIVIL ENGINEERING
DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #11. Record all ratings on the survey itself, NOT on this flyer.

A. Airport planning and design
B. Transportation engineering
C. Hydraulics/hydrology
D. Materials testing
E. Construction engineering and management
F. Soil mechanics
G. Pavement design
H. Structural analysis and design
I. Computer skills for civil engineering analysis and design
J. CAD
K. Environmental engineering
L. Understand and adapt to the challenges of contemporary civil engineering
M. Apply interdisciplinary skills and knowledge to actual problems
N. Recognize the need to continue professional development throughout one's career

BS COMPUTER ENGINEERING
DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #11. Record all ratings on the survey itself, NOT on this flyer.

A. Apply knowledge of mathematics, science, and engineering
B. Design and conduct experiments
C. Analyze and interpret data
D. Design a computer system or component to meet desired needs
E. Implement computer programs and computational processes to meet desired needs
F. Function on multi-disciplinary teams
G. Identify, formulate, and solve engineering problems
H. Understand professional and ethical responsibility
I. Communicate effectively
J. Understand the impact of engineering solutions in a global and societal context
K. Engage in life-long learning
L. Understand contemporary issues in computer engineering
M. Use modern engineering tools

BS COMPUTER SCIENCE
DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #11. Record all ratings on the survey itself, NOT on this flyer.

A. Understand and apply object-oriented programming concepts to the development of software modules
B. Understand and apply algorithm design concepts and techniques to the design of software modules
C. Understand and apply data structures theory to the design of software modules
D. Apply theory of modularity, abstraction, and information hiding to the design of software systems
E. Understand the fundamental concepts of computer organization and architecture
F. Understand the fundamental concepts of real-time computing
G. Understand the theory and use of operating systems
H. Apply software engineering concepts to specify, design, construct, and test a software product
I. Understand the interrelationship between computer hardware and software fundamentals
J. Apply scientific, mathematical, and engineering concepts, methods, and tools to the solution of software engineering problems
K. Use defined life-cycle engineering processes designed to produce software systems that meet functional, quality, economic, and schedule requirements
L. Understand and appreciate an engineer's professional and ethical responsibilities
M. Understand and appreciate the importance of life-long learning

BS ELECTRICAL ENGINEERING
DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #11. Record all ratings on the survey itself, NOT on this flyer.

A. Apply knowledge of mathematics, science, and engineering
B. Design and conduct experiments
C. Analyze and interpret data
D. Design a computer system or component to meet desired needs
E. Implement computer programs and computational processes to meet desired needs
F. Function on multi-disciplinary teams
G. Identify, formulate, and solve engineering problems
H. Understand professional and ethical responsibility
I. Communicate effectively
J. Understand the impact of engineering solutions in a global and societal context
K. Engage in life-long learning
L. Understand contemporary issues in electrical engineering
M. Use techniques, skills, and modern engineering tools necessary for engineering practice
N. Demonstrate depth within specific sub-areas of electrical engineering such as control, communications, systems, circuit design, etc.

BS ENGINEERING PHYSICS
DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #11. Record all ratings on the survey itself, NOT on this flyer.

A. Apply knowledge of mathematics, science, and engineering
B. Design and conduct experiments
C. Analyze and interpret data
D. Design a system, component, or process to meet desired needs
E. Function on multi-disciplinary teams
F. Identify, formulate, and solve engineering problems
G. Understand professional and ethical responsibility
H. Communicate effectively
I. Understand the impact of engineering solutions in a global and societal context
J. Recognize and engage in life-long learning
K. Knowledge of contemporary issues
L. Use the techniques, skills, and modern engineering tools necessary for engineering practice
M. Knowledge of classical mechanics
N. Knowledge of engineering electricity and magnetism
O. Knowledge of space physics
P. Knowledge of quantum physics
Q. Knowledge of space systems engineering and design
R. Knowledge of electro-optical engineering
S. Knowledge of microcomputers and electronic instrumentation

BS HUMAN FACTORS PSYCHOLOGY
DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #11. Record all ratings on the survey itself, NOT on this flyer.

A. Knowledge of human psychophysiological, cognitive, and perceptual functioning
B. Knowledge of human factors including analytic methods, models, and human capabilities and limitations
C. Knowledge of basic statistical procedures, including analysis of variance
D. Research methods and design skills
E. Effective oral and written communication skills
F. Ability to read, comprehend, and analyze results of published empirical studies in the human factors field
G. Understanding of the application of human factors and psychological knowledge in aviation and other applied domains

BS MANAGEMENT OF TECHNICAL OPERATIONS
DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #11. Record all ratings on the survey itself, NOT on this flyer.

A. Relating management concepts to prior knowledge in a technical operations specialty
B. Using accounting, financial, and statistical information in the management of technical operations
C. Applying organizational and human resources theory and concepts in the workplace
D. Using computer technology to support technical operations
E. Understanding the social, economic, ethical, political, and legal environment of a technical enterprise
F. Applying strategic and project planning principles and techniques in a technical operation
G. Using general managerial skills (leadership, problem solving, and decision-making)
H. Using managerial skills in computers
I. Using managerial skills in technical writing
J. Using managerial skills in quantitative/mathematics

BS PROFESSIONAL AERONAUTICS
DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #11. Record all ratings on the survey itself, NOT on this flyer.

A. Knowledge and understanding of aviation law and regulations
B. Understanding and application of management theory/concepts
C. Understanding and use of accounting and financial information
D. Use of statistical/quantitative techniques to solve problems
E. Understanding of safety issues, employment of accident prevention techniques, safety program practices and management, and mishap investigation
F. Knowledge and understanding of advanced management concepts, issues, and practices as applied in a variety of aviation operations and services
G. Knowledge and understanding of aeronautical science, technology and operations, concepts, theory and applications

BS SAFETY SCIENCE
DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #11. Record all ratings on the survey itself, NOT on this flyer.

A. Identify, evaluate and control health and safety hazards
B. Demonstrate competency in the principles of fire prevention, suppression, and life safety
C. Demonstrate competency in the fundamentals of industrial hygiene and toxicology
D. Apply systems safety analysis techniques to identify, prioritize, and control hazards in human–machine systems
E. Demonstrate knowledge of aviation safety reporting systems and safety data sources
F. Develop an understanding of workplace security to deal with the threat of violence and other intentional harmful acts
G. Demonstrate an ability to participate in the development, testing, and maintenance of an airport emergency plan, including Aircraft Rescue and Fire Fighting
H. Develop an understanding of federal human resources statutes and legal torts and contracts as it relates to safety/risk management in aviation law
I. Develop and maintain a comprehensive safety program for the aviation and aligned industries that address all relevant regulatory requirements of the FAA, OSHA, EPA and DOT
J. Apply DOT regulations to the transportation of different classes of hazardous materials
K. Discuss the federal regulations pertaining to aircraft operations, rulemaking and certification
L. Evaluate an airport's compliance with federal regulations
M. Demonstrate an understanding and application of the regulatory requirements organizations operate under, including OSHA, EPA and DOT regulations, and workers' compensations laws
N. Initiate, develop, conduct and manage aircraft accident investigations in accordance with all the requirements of the NTSB, FAA and other relevant regulatory bodies
O. Apply SHELL and Reason's model to understanding accident causation and prevention
P. Evaluate the role of human factors issues (fatigue, body rhythms, vision, etc.) as they relate to human performance and accident causation and prevention
Q. Apply principles of crash survival to the design and outfitting of aircraft
R. Complete a "Crash Survival Analysis" rating for various fixed-wing and rotor aircraft

BS SCIENCE, TECHNOLOGY, AND GLOBALIZATION
DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #11. Record all ratings on the survey itself, NOT on this flyer.

A. Understand, analyze, and work with international cultures, different types of business enterprises, private and public organizations
B. Define and find solutions to complex problems that may have multiple, open-ended solutions
C. Communicate clearly and effectively to different audiences and in different circumstances
D. Work effectively in diverse teams
E. Act responsibly and demonstrate ethical behavior
F. Conduct independent research at the level of a senior thesis or professional-level consulting project

M AERONAUTICAL SCIENCE
DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #11. Record all ratings on the survey itself, NOT on this flyer.

AERONAUTICS SPECIALIZATION

A. Air transportation as part of the global, multi-modal system
B. Basic elements of Space Transportation System
C. State-of-the-art materials and practices used in manufacture and maintenance of A/A vehicles
D. Human factors problems and analysis
E. Major steps in developing a research study
F. Analysis of five major research methodologies
G. Advances in Aviation/Aerospace aerodynamics
H. Value of simulation in aviation training programs
I. Operation of high technology meteorology data computer systems
J. Evaluation of aircraft and spacecraft guidance, control, communication, and navigation systems
K. Analysis of spacecraft propulsion systems

M AERONAUTICAL SCIENCE
DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #11. Record all ratings on the survey itself, NOT on this flyer.

AVIATION/AEROSPACE EDUCATION TECHNOLOGY SPECIALIZATION

A. Air transportation as part of the global, multi-modal system
B. Basic elements of Space Transportation System
C. State-of-the-art materials and practices used in manufacture and maintenance of A/A vehicles
D. Human factors problems and analysis
E. Major steps in developing a research study
F. Analysis of five major research methodologies
G. Role of education in Aviation/Aerospace industry
H. Value of simulation in aviation training programs
I. Similarities and differences between pedagogy and andragogy
J. Uniqueness and commonalities of the adult learning process

M AERONAUTICAL SCIENCE
DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #11. Record all ratings on the survey itself, NOT on this flyer.

AVIATION/AEROSPACE MANAGEMENT SPECIALIZATION

A. Air transportation as part of the global, multi-modal system
B. Basic elements of Space Transportation System
C. State-of-the-art materials and practices used in manufacture and maintenance of A/A vehicles
D. Human factors problems and analysis
E. Major steps in developing a research study
F. Analysis of five major research methodologies
G. Production and procurement management in manufacturing
H. Supply and distribution functions in the logistic system
I. Strategic planning and strategic management concepts
J. Interaction of maintenance with operations, logistics, and training functions
K. Key factors impacting on R and D programs

M AERONAUTICAL SCIENCE
DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #11. Record all ratings on the survey itself, NOT on this flyer.

AVIATION/AEROSPACE OPERATIONS SPECIALIZATION

A. Air transportation as part of the global, multi-modal system
B. Basic elements of Space Transportation System
C. State-of-the-art materials and practices used in manufacture and maintenance of A/A vehicles
D. Human factors problems and analysis
E. Major steps in developing a research study
F. Analysis of five major research methodologies
G. Past, present, and future airspace and ATC technology
H. Roles and responsibilities of FAA, NTSB, and military in accident investigation
I. Crash site investigation
J. Management and operations related to Air Carriers
K. Qualifications and training of aircraft dispatchers
L. Responsibilities associated with Corporate Aviation operations

M AERONAUTICAL SCIENCE
DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #11. Record all ratings on the survey itself, NOT on this flyer.

AVIATION/AEROSPACE SAFETY SYSTEMS SPECIALIZATION

A. Air transportation as part of the global, multi-modal system
B. Basic elements of Space Transportation System
C. State-of-the-art materials and practices used in manufacture and maintenance of A/A vehicles
D. Human factors problems and analysis
E. Major steps in developing a research study
F. Analysis of five major research methodologies

M AERONAUTICAL SCIENCE
DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #11. Record all ratings on the survey itself, NOT on this flyer.

HUMAN FACTORS IN AVIATION SYSTEMS SPECIALIZATION

A. Air transportation as part of the global, multi-modal system
B. Basic elements of Space Transportation System
C. State-of-the-art materials and practices used in manufacture and maintenance of A/A vehicles
D. Human factors problems and analysis
E. Major steps in developing a research study
F. Analysis of five major research methodologies

M AERONAUTICAL SCIENCE
DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #11. Record all ratings on the survey itself, NOT on this flyer.

SPACE STUDIES SPECIALIZATION

A. Air transportation as part of the global, multi-modal system
B. Basic elements of Space Transportation System
C. State-of-the-art materials and practices used in manufacture and maintenance of A/A vehicles
D. Human factors problems and analysis
E. Major steps in developing a research study
F. Analysis of five major research methodologies

M AEROSPACE ENGINEERING AND MS AEROSPACE ENGINEERING DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #11. Record all ratings on the survey itself, NOT on this flyer.

A. Ability to work independently on new scientific/engineering projects
B. Ability to design novel experiments
C. Knowledge of aerodynamics
D. Knowledge of aircraft structures
E. Knowledge of aerospace materials
F. Knowledge of computational techniques

M BUSINESS ADMINISTRATION IN AVIATION DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #11. Record all ratings on the survey itself, NOT on this flyer.

A. Understanding the functions and scope of the management of human resources
B. Knowledge and application in aviation of organizational concepts including group dynamics, leadership, conflict resolution, ethics, and motivation
C. Understanding the concepts and strategies involved in planning, implementing, and controlling a marketing plan with special emphasis on aviation organizations
D. Application and analysis of the following managerial accounting concepts: cost accounting, cost-volume-profit relationships, budgeting, standard costs, segment analysis, and financial ratios with emphasis on aviation and aviation-related industries
E. Skills in analyzing financial statements and other corporate finance concepts and techniques in aviation and aviation-related industries
F. Knowledge of general systems concepts, decisions, and information systems
G. Application of statistical and quantitative analysis
H. Application of microeconomic concepts to aviation operations demand using forecasting and pricing techniques
I. Skills to formulate strategy and policy required to obtain organizational goals in the competitive environment of airlines, airports, manufacturing, and government

MS HUMAN FACTORS AND SYSTEMS
DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #11. Record all ratings on the survey itself, NOT on this flyer.

HUMAN FACTORS ENGINEERING TRACK

A. Ability to identify human factors problems in operational environments
B. Knowledge of general systems concepts
C. Ability to apply the knowledge of human perception, cognition, and memory to operational and design problems
D. Understanding and ability to apply statistical and quantitative techniques
E. Understanding and ability to apply the strategies involved in planning, implementing, and controlling a research plan

MS HUMAN FACTORS AND SYSTEMS
DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #11. Record all ratings on the survey itself, NOT on this flyer.

SYSTEMS ENGINEERING TRACK

A. Knowledge of general systems concepts
B. Ability to apply the knowledge of reliability, maintainability, logistics, safety, and producibility to operational and design problems
C. Ability to identify human factors problems in operational environments
D. Ability to balance operational, behavioral, economic, and logistical factors in operations and design
E. Understanding and ability to apply statistical and quantitative techniques
F. Understanding and ability to apply the strategies involved in planning, implementing, and controlling a research plan

MS TECHNICAL MANAGEMENT
DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #11. Record all ratings on the survey itself, NOT on this flyer.

A. Using computer techniques to solve management problems
B. Understanding and applying quantitative and statistical skills for decision making
C. Using computer graphics to enhance verbal presentations
D. Understanding electronic data systems and relational databases
E. Using financial accounting and quality control processes
F. Applying statistical methods to project development and problem solutions
G. Understanding systems development and operation
H. Understanding the role of leadership and management in a variety of organizational alternatives
I. Understanding the role of communication in team building and motivation
J. Assessing the regulatory, ethical, and legal environments of an organization or industry
K. Understanding marketing techniques applicable to technical operations
L. Understanding project management and tactical planning in the technical environment
M. Using management science principles and software to make better decisions
N. Understanding the cost and process of improving product quality in an organization

Employer Feedback Survey
Class of 2002
Survey Materials

January 12, 2004

«SUPERVISOR»
«DEPARTMENT»
«EMPLOYER»
«STREET»
«CITY», «STATE» «ZIP»

Dear Supervisor:

Embry-Riddle is evaluating how its academic programs are meeting employers' needs and expectations. The best input we receive comes from the supervisors of our recent graduates. Our class of 2002 graduate, «FNAME» «MNAME» «LNAME» («DEGDESC» «SPEC1TXT»), provided your address so that we could contact you for this essential information.

Your response is extremely important to us because only a small sample of employers have received the enclosed survey. Your input will be combined with other employers to give us an overall picture of our graduates. With your feedback, we can tailor our programs to produce graduates that companies like yours desire.

The survey will take only a few minutes to complete. Some supervisors may have received surveys for multiple employees. We sincerely appreciate your time in filling each form out separately. Be assured that all of your responses are confidential. The code number listed on all correspondence is for non-respondent follow up only. A postage-paid envelope is included for your convenience. Please reply by **February 2.** If the individual listed on this letter no longer reports directly to you please forward this to the new supervisor, if possible, or return it to Embry-Riddle.

Thank you for helping ERAU provide its graduates with the qualifications necessary for the employment world of the twenty-first century!

Sincerely,

George H. Ebbs, Ph.D.
President

Questions?
Please contact the Office of Institutional Research at
(386) 226-6225 or instrsch@erau.edu

«CODE1»

February 23, 2004

«SUPERVISOR»
«DEPARTMENT»
«EMPLOYER»
«STREET»
«CITY», «STATE» «ZIP»

Dear Supervisor:

Recently, you received Embry-Riddle's Employer Feedback Survey asking you to help us evaluate how our academic programs are meeting employers' needs and expectations. A member of our 2002 graduating class, «FNAME» «MNAME» «LNAME» («DEGDESC»«SPEC1TXT»), provided your address so that we could contact you for this important information.

We know that you are busy, but I hope you can find time to fill out and return the enclosed questionnaire. As the supervisor of a recent ERAU graduate, your opinion is particularly valuable. The employment world of the twenty-first century is highly demanding and we want to know how to best prepare our students. Your input will be combined with other employers to give us an overall picture of our graduates. The feedback you provide will help us tailor our programs to produce graduates who will succeed in businesses like yours.

The survey will take only a few minutes to complete. Some supervisors may have received surveys for multiple employees. We sincerely appreciate your time in filling each form out separately. Be assured that all of your responses are confidential. The code number listed on all correspondence is for non-respondent follow up only. A postage-paid envelope is included for your convenience. Please reply by **March 15.** If the individual listed on this letter no longer reports directly to you please forward this to the new supervisor, if possible, or return it to Embry-Riddle.

If you have already sent out your reply, kindly disregard this notice. Thank you!

Sincerely,

George H. Ebbs, Ph.D.
President

Questions?
Please contact the Office of Institutional Research at
(386) 226-6225 or instrsch@erau.edu

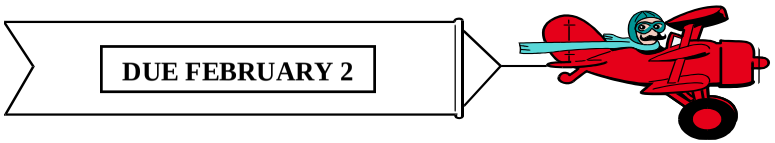
«EFSCODE2»

HAVE YOU RESPONDED TO THE EMBRY-RIDDLE EMPLOYER FEEDBACK SURVEY?

*If you have not yet responded, please take a few minutes to COMPLETE and RETURN the survey.

*If you have misplaced or did not receive your Employer Feedback Survey, please contact the Office of Institutional Research at (386) 226-6225 or instrsch@erau.edu.

Your participation is greatly appreciated. Thank you to those who have already responded!



2004 EMPLOYER FEEDBACK SURVEY
Embry-Riddle Aeronautical University

DIRECTIONS: For each question, completely fill in the oval that matches your response. Use ONLY blue or black ink, or a no. 2 pencil. All responses are confidential and will NOT be shared with your employee.

YOU AND YOUR COMPANY

1. Approximately how many ERAU graduates do you know professionally?
   ○ 1 ○ 2-5 ○ 6-10 ○ 11-50 ○ Over 50
2. How many ERAU graduates do you currently supervise?
   ○ 1 ○ 2-5 ○ 6-10 ○ 11-20 ○ Over 20
3. Did you graduate from ERAU?
   ○ Yes ○ No
4. What is your level of involvement in the hiring of new workers at your current company?
   ○ Make Final Decision ○ Provide Input ○ No Involvement (skip to question #7)
5. What is your preference for hiring graduates?
   ○ Strong Preference for ERAU Graduates ○ Some Preference for ERAU Graduates ○ No Preference ○ Some Preference for Other Graduates ○ Strong Preference for Other Graduates
6. What changes do you anticipate in your organization's need for aviation and aerospace professionals in the near future?
   ○ Increased Need ○ No Changes ○ Decreased Need

THE ERAU GRADUATE

Consider the ERAU graduate listed on your cover letter when answering the following questions.

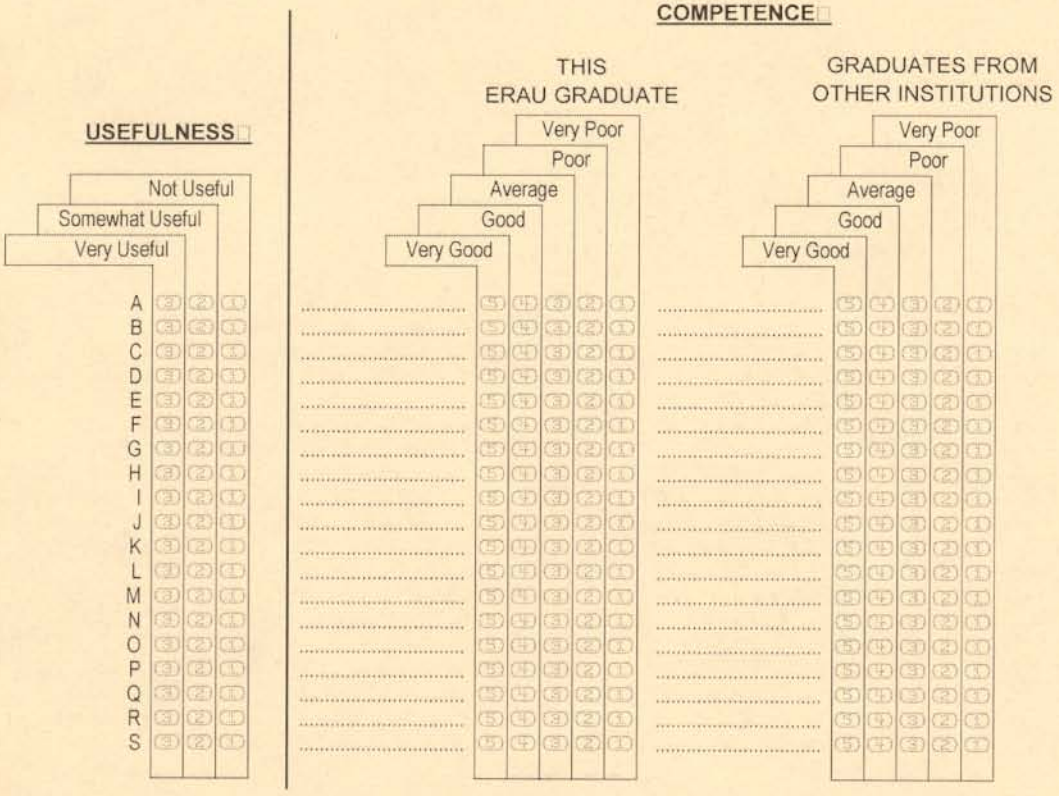
7. The education of the ERAU graduate meets our company's needs.
   ○ Strongly Agree ○ Agree ○ Neutral ○ Disagree ○ Strongly Disagree
8. Compared to graduates from other institutions, his/her knowledge and skill level is:
   ○ Much Higher ○ Somewhat Higher ○ Equivalent ○ Somewhat Lower ○ Much Lower
9. He/she is a valuable employee.
   ○ Strongly Agree ○ Agree ○ Neutral ○ Disagree ○ Strongly Disagree
10. He/she is a good candidate for promotion.
    ○ Strongly Agree ○ Agree ○ Neutral ○ Disagree ○ Strongly Disagree

11. For each general skill listed below, provide a response for:
    Usefulness: How useful the skill is at the employee's position
    Competence: The level of competence at the skill shown by this ERAU graduate vs. graduates from other institutions (leave Competence blank if you rate the skill as NOT USEFUL)

	USEFULNESS	COMPETENCE: THIS ERAU GRADUATE	COMPETENCE: GRADUATES FROM OTHER INSTITUTIONS
	Not Useful / Somewhat Useful / Very Useful	Very Poor / Poor / Average / Good / Very Good	Very Poor / Poor / Average / Good / Very Good
Quantitative/mathematics	○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
Basic PC software (word processing, spreadsheets, etc.)	○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
Writing skills (non-technical)	○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
Technical writing	○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
Speaking before an audience	○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
Applied research (information gathering and analysis)	○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
Critical thinking	○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
Independent work	○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
Planning, scheduling, and carrying out projects	○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
Defining and solving problems	○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
Working in groups/teams	○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
Leading/guiding others	○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
Responsible actions and decision making	○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
Understanding other people and other points of view	○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
Environmental awareness	○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
Political and economic awareness	○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
Knowledge of political and physical geography	○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○

OVER...

12. Locate the separate blue flyer containing degree-specific skills taught in the ERAU graduate's degree program. If you do not have a separate blue flyer, please skip to question #12. For each skill listed, provide a response for Usefulness and Competence as in the previous question. Remember to leave Competence blank if you rate the skill as NOT USEFUL.



13. Considering this ERAU graduate, what strengths do you perceive in his/her degree program?

14. Considering this ERAU graduate, what weaknesses do you perceive in his/her degree program?

15. Additional comments that may assist ERAU in evaluating its degree programs:

THANK YOU FOR YOUR PARTICIPATION! PLEASE USE THE POSTAGE-PAID ENVELOPE PROVIDED AND RETURN SURVEY BY FEBRUARY 2, 2004 TO:

Embry-Riddle Aeronautical University
Office of Institutional Research
600 S. Clyde Morris Boulevard
Daytona Beach, FL 32114-3900

AS AIRCRAFT MAINTENANCE
DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #12. Record all ratings on the survey itself, NOT on this flyer.

A. General knowledge of maintenance operations and safety
B. Electrical and electronic systems operations
C. Skills in metallic and non-metallic structures and repair
D. Understanding of a/c systems (hydraulics, environmentals, etc.)
E. Knowledge of reciprocating and turbine engines and their respective systems
F. Knowledge and ability to work with technical publications and manuals
G. Skills in troubleshooting
H. Use of precision measuring instruments and basic and special tools
I. Understanding and knowledge of FAA regulations

BS AERONAUTICAL SCIENCE
DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #12. Record all ratings on the survey itself, NOT on this flyer.

A. Understanding aerodynamic performance of aircraft powered by reciprocating and turbine engines
B. Use of electronic navigation and flight control systems
C. Crew coordination (cockpit resource management)
D. Knowledge of flight physiology, awareness of flight psychology (human factors)
E. Awareness of safety and accident prevention
F. Understanding the concepts and process of meteorology
G. Instrument flight skill
H. Multi-engine/high performance aircraft operations
I. Knowledge of Federal Aviation Regulations
J. Aeronautical decision making (judgement skills)
K. Actions, attitudes, and knowledge of security considerations
L. Dealing with integrity issues
M. Developing your moral character
N. Assertiveness in a leadership or subordinate role

BS AEROSPACE ENGINEERING
DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #12. Record all ratings on the survey itself, NOT on this flyer.

A. Apply knowledge of mathematics and science
B. Design and conduct experiments
C. Analyze and interpret experimental data
D. Apply knowledge of aerodynamics
E. Apply knowledge of aircraft performance
F. Apply knowledge of stability and control
G. Apply knowledge of aerospace materials
H. Apply knowledge of aircraft and spacecraft structures
I. Apply knowledge of propulsion
J. Apply knowledge of orbital mechanics
K. Apply knowledge of spacecraft dynamics
L. Apply knowledge of control systems
M. Apply knowledge of circuits, electronics, and instrumentation
N. Identify, formulate, and solve engineering problems
O. Use the techniques, skills, and modern engineering tools necessary for engineering practice
P. Design an aircraft or spacecraft system, component, or mission to meet desired needs
Q. Understand the impact of engineering decisions on society and the environment
R. Understand professional and ethical responsibility
S. Recognize the need to continue professional development throughout one's career

BS AEROSPACE STUDIES
DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #12. Record all ratings on the survey itself, NOT on this flyer.

A. Demonstrate effective communication skills
B. Demonstrate ability to interpret written material
C. Apply analytical thinking
D. Understand international perspectives
E. Understand basic statistics
F. Demonstrate cultural awareness
G. Demonstrate ability to integrate interdisciplinary knowledge and skills

BS AIRCRAFT ENGINEERING TECHNOLOGY
DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #12. Record all ratings on the survey itself, NOT on this flyer.

A. Aerodynamics/performance
B. Structures
C. Propulsion
D. Dynamic systems and control
E. Material science
F. Manufacturing processes
G. Non-destructive testing
H. Measurement and testing
I. Reliability/maintainability

BS AVIATION BUSINESS ADMINISTRATION
DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #12. Record all ratings on the survey itself, NOT on this flyer.

A. Apply management theory/concepts into a dynamic organizational environment
B. Apply accounting and financial information for decision making in a for-profit and not-for-profit entity
C. Integrate knowledge of macro- and micro-economics into managerial decision making
D. Apply statistical and/or quantitative techniques to problem solving in organizations
E. Integrate marketing concepts/practices into executing global market strategies
F. Formulate business decisions by incorporating ethical standards and principles
G. Access, analyze, and communicate information using multiple means/media

BS AVIATION MAINTENANCE MANAGEMENT
DEGREE-SPECIFIC SKILLS

DIRECTIONS: Locate your program and use the items listed to answer question #12. Record all ratings on the survey itself, NOT on this flyer. Use the number in parentheses to fill in the last part of question asking for your degree code.

BS AVIATION MAINTENANCE MANAGEMENT (1)

A. Understanding and applying management theory/concepts
B. Understanding and using accounting and financial information
C. Understanding how the market system works
D. Awareness of personnel procedures, collective bargaining, and the legal obligations of managements
E. Applying statistical and/or quantitative techniques to problem solving

BS AVIATION MAINTENANCE MANAGEMENT (AVIONICS) (2)

A. Understanding and applying management theory/concepts
B. Understanding and using accounting and financial information
C. Understanding how the market system works
D. Awareness of personnel procedures, collective bargaining, and the legal obligations of managements
E. Applying statistical and/or quantitative techniques to problem solving

BS AVIATION MAINTENANCE MANAGEMENT (MAINTENANCE) (3)

A. Understanding and applying management theory/concepts
B. Understanding and using accounting and financial information
C. Understanding how the market system works
D. Awareness of personnel procedures, collective bargaining, and the legal obligations of managements
E. Applying statistical and/or quantitative techniques to problem solving
F. General knowledge of maintenance operations and safety
G. Electrical and electronic systems operations
H. Skills in metallic and non-metallic structures and repair
I. Understanding of a/c systems (hydraulics, environmentals, etc.)
J. Knowledge of reciprocating and turbine engines and their respective systems
K. Knowledge and ability to work with technical publications and manuals
L. Skills in troubleshooting
M. Use of precision measuring instruments and basic and special tools
N. Understanding and knowledge of FAA regulations

BS AVIATION TECHNOLOGY
DEGREE-SPECIFIC SKILLS

DIRECTIONS: Locate your options and use the items listed to answer question #12. Record all ratings on the survey itself, NOT on this flyer. Use the number in parentheses to fill in the last part of question asking for your degree code.

AVIONICS/FLIGHT (1)

A. General knowledge of maintenance operations and safety
B. Knowledge and ability to work with technical publications and manuals
C. Skills in troubleshooting
D. Use of precision measuring instruments and basic and special tools
E. Understanding and knowledge of FAA regulations
F. Use of electronic navigation and flight control systems
G. Crew coordination (cockpit resource management)
H. Knowledge of flight physiology, awareness of flight psychology (human factors)
I. Awareness of safety and accident prevention
J. Understanding the concepts and process of meteorology
K. Instrument flight skill
L. Multi-engine/high performance aircraft operations
M. Aeronautical decision making (judgement skills)
N. Basic and advanced electronics analysis and theory
O. Avionics equipment and system analysis
P. Avionics/electronics system test, analysis, and repair

MAINTENANCE/AVIONICS (2)

A. General knowledge of maintenance operations and safety
B. Skills in metallic and non-metallic structures and repair
C. Understanding of a/c systems (hydraulics, environmentals, etc.)
D. Knowledge of reciprocating and turbine engines and their respective systems
E. Knowledge and ability to work with technical publications and manuals
F. Skills in troubleshooting
G. Use of precision measuring instruments and basic and special tools
H. Understanding and knowledge of FAA regulations
I. Basic and advanced electronics analysis and theory
J. Avionics equipment and system analysis
K. Avionics/electronics system test, analysis, and repair

MAINTENANCE/FLIGHT (3)

A. General knowledge of maintenance operations and safety
B. Skills in metallic and non-metallic structures and repair
C. Understanding of a/c systems (hydraulics, environmentals, etc.)
D. Knowledge of reciprocating and turbine engines and their respective systems
E. Knowledge and ability to work with technical publications and manuals
F. Skills in troubleshooting
G. Use of precision measuring instruments and basic and special tools
H. Understanding and knowledge of FAA regulations
I. Electrical and electronic systems operations
J. Understanding aerodynamic performance of aircraft powered by reciprocating and turbine engines
K. Use of electronic navigation and flight control systems
L. Crew coordination (cockpit resource management)
M. Knowledge of flight physiology, awareness of flight psychology (human factors)
N. Awareness of safety and accident prevention
O. Understanding the concepts and process of meteorology
P. Instrument flight skill
Q. Multi-engine/high performance aircraft operations
R. Aeronautical decision making (judgement skills)

BS AVIONICS ENGINEERING TECHNOLOGY
DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #12. Record all ratings on the survey itself, NOT on this flyer.

A. Basic and advanced electronics analysis and theory
B. Avionics system analysis and design
C. Avionics/electronics system test
D. Applied mechanical engineering concepts
E. Basic design and engineering concepts
F. Applications software and programming
G. Reliability/maintainability
H. Systems integration

BS CIVIL ENGINEERING
DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #12. Record all ratings on the survey itself, NOT on this flyer.

A. Airport planning and design
B. Transportation engineering
C. Hydraulics/hydrology
D. Materials testing
E. Construction engineering and management
F. Soil mechanics
G. Pavement design
H. Structural analysis and design
I. Computer skills for civil engineering analysis and design
J. CAD
K. Environmental engineering
L. Understand and adapt to the challenges of contemporary civil engineering
M. Apply interdisciplinary skills and knowledge to actual problems
N. Recognize the need to continue professional development throughout one's career

BS COMPUTER ENGINEERING
DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #12. Record all ratings on the survey itself, NOT on this flyer.

A. Apply knowledge of mathematics, science, and engineering
B. Design and conduct experiments
C. Analyze and interpret data
D. Design a computer system or component to meet desired needs
E. Implement computer programs and computational processes to meet desired needs
F. Function on multi-disciplinary teams
G. Identify, formulate, and solve engineering problems
H. Understand professional and ethical responsibility
I. Communicate effectively
J. Understand the impact of engineering solutions in a global and societal context
K. Engage in life-long learning
L. Understand contemporary issues in computer engineering
M. Use modern engineering tools

BS COMPUTER SCIENCE
DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #12. Record all ratings on the survey itself, NOT on this flyer.

A. Understand and apply object-oriented programming concepts to the development of software modules
B. Understand and apply algorithm design concepts and techniques to the design of software modules
C. Understand and apply data structures theory to the design of software modules
D. Apply theory of modularity, abstraction, and information hiding to the design of software systems
E. Understand the fundamental concepts of computer organization and architecture
F. Understand the fundamental concepts of real-time computing
G. Understand the theory and use of operating systems
H. Apply software engineering concepts to specify, design, construct, and test a software product
I. Understand the interrelationship between computer hardware and software fundamentals
J. Apply scientific, mathematical, and engineering concepts, methods, and tools to the solution of software engineering problems
K. Use defined life-cycle engineering processes designed to produce software systems that meet functional, quality, economic, and schedule requirements
L. Understand and appreciate an engineer's professional and ethical responsibilities
M. Understand and appreciate the importance of life-long learning

BS ELECTRICAL ENGINEERING
DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #12. Record all ratings on the survey itself, NOT on this flyer.

A. Circuits and networks - analysis
B. Circuits and networks - design
C. Solid-state electronics
D. Power systems
E. General programming
F. Electromagnetics
G. Communications systems
H. Control systems
I. Digital electronics and computer systems
J. Engineering-specific computational tools (Matlab, Pspice, etc.)
K. Statics and dynamics
L. Thermodynamics and heat transfer
M. Engineering design
N. An engineer's professional and ethical responsibilities
O. The importance of life-long learning

BS ENGINEERING PHYSICS
DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #12. Record all ratings on the survey itself, NOT on this flyer.

A. Apply knowledge of mathematics, science, and engineering
B. Design and conduct experiments
C. Analyze and interpret data
D. Design a system, component, or process to meet desired needs
E. Function on multi-disciplinary teams
F. Identify, formulate, and solve engineering problems
G. Understand professional and ethical responsibility
H. Communicate effectively
I. Understand the impact of engineering solutions in a global and societal context
J. Recognize and engage in life-long learning
K. Knowledge of contemporary issues
L. Use the techniques, skills, and modern engineering tools necessary for engineering practice
M. Knowledge of classical mechanics
N. Knowledge of engineering electricity and magnetism
O. Knowledge of space physics
P. Knowledge of quantum physics
Q. Knowledge of space systems engineering and design
R. Knowledge of electro-optical engineering
S. Knowledge of microcomputers and electronic instrumentation

BS HUMAN FACTORS PSYCHOLOGY
DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #12. Record all ratings on the survey itself, NOT on this flyer.

A. Knowledge of human psychophysiological, cognitive, and perceptual functioning
B. Knowledge of human factors including analytic methods, models, and human capabilities and limitations
C. Knowledge of basic statistical procedures, including analysis of variance
D. Research methods and design skills
E. Effective oral and written communication skills
F. Ability to read, comprehend, and analyze results of published empirical studies in the human factors field
G. Understanding of the application of human factors and psychological knowledge in aviation and other applied domains

BS MANAGEMENT OF TECHNICAL OPERATIONS
DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #12. Record all ratings on the survey itself, NOT on this flyer.

A. Relating management concepts to prior knowledge in a technical operations specialty
B. Using accounting, financial, and statistical information in the management of technical operations
C. Applying organizational and human resources theory and concepts in the workplace
D. Using computer technology to support technical operations
E. Understanding the social, economic, ethical, political, and legal environment of a technical enterprise
F. Applying strategic and project planning principles and techniques in a technical operation
G. Using general managerial skills (leadership, problem solving, and decision-making)
H. Using managerial skills in computers
I. Using managerial skills in technical writing
J. Using managerial skills in quantitative/mathematics

BS PROFESSIONAL AERONAUTICS
DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #12. Record all ratings on the survey itself, NOT on this flyer.

A. Knowledge and understanding of aviation law and regulations
B. Understanding and application of management theory/concepts
C. Understanding and use of accounting and financial information
D. Use of statistical/quantitative techniques to solve problems
E. Understanding of safety issues, employment of accident prevention techniques, safety program practices and management, and mishap investigation
F. Knowledge and understanding of advanced management concepts, issues, and practices as applied in a variety of aviation operations and services
G. Knowledge and understanding of aeronautical science, technology and operations, concepts, theory and applications

BS SAFETY SCIENCE
DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #12. Record all ratings on the survey itself, NOT on this flyer.

A. Knowledge and application of OSHA safety regulations for general industry
B. Ability to analyze and apply systems safety techniques and reliability concepts
C. Analysis and application capability in aircraft accident investigation
D. Analysis and application capability in aircraft crash survival analysis of fixed wing aircraft
E. Knowledge, analysis and application capability in aircraft power plant accident investigation relative to reciprocating/gas turbine engines and propeller systems
F. Knowledge, analysis and application capability in safety program management
G. Ability to work in teams
H. Ability to write and formulate a technical report
I. Professional presentation skills
J. Competency in determining an airport's compliance with federal safety regulations
K. Ability to develop, test and maintain an airport emergency plan
L. Basic knowledge in the fundamentals of Aircraft Rescue and Fire Fighting
M. Ability to identify and explain relevant legal issues that exist in the health and safety industry
N. Ability to apply failure processes of aircraft components to determine accidents causes
O. Ability to analyze human factors issues in aviation accidents

BS SCIENCE, TECHNOLOGY, AND GLOBALIZATION
DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #12. Record all ratings on the survey itself, NOT on this flyer.

A. Understand, analyze, and work with international cultures, different types of business enterprises, private and public organizations
B. Define and find solutions to complex problems that may have multiple, open-ended solutions
C. Communicate clearly and effectively to different audiences and in different circumstances
D. Work effectively in diverse teams
E. Act responsibly and demonstrate ethical behavior
F. Conduct independent research at the level of a senior thesis or professional-level consulting project

M AERONAUTICAL SCIENCE
DEGREE-SPECIFIC SKILLS

DIRECTIONS: Locate your specialization and use the items listed to answer question #12. Record all ratings on the survey itself, NOT on this flyer. Use the number in parentheses to fill in the last part of question asking for your degree code.

AERONAUTICS SPECIALIZATION (1)

A. Air transportation as part of the global, multi-modal system
B. Basic elements of Space Transportation System
C. State-of-the-art materials and practices used in manufacture and maintenance of A/A vehicles
D. Human factors problems and analysis
E. Major steps in developing a research study
F. Analysis of five major research methodologies
G. Advances in Aviation/Aerospace aerodynamics
H. Value of simulation in aviation training programs
I. Operation of high technology meteorology data computer systems
J. Evaluation of aircraft and spacecraft guidance, control, communication, and navigation systems
K. Analysis of spacecraft propulsion systems

AVIATION/AEROSPACE EDUCATION TECHNOLOGY SPECIALIZATION (2)

A. Air transportation as part of the global, multi-modal system
B. Basic elements of Space Transportation System
C. State-of-the-art materials and practices used in manufacture and maintenance of A/A vehicles
D. Human factors problems and analysis
E. Major steps in developing a research study
F. Analysis of five major research methodologies
G. Role of education in Aviation/Aerospace industry
H. Value of simulation in aviation training programs
I. Similarities and differences between pedagogy and andragogy
J. Uniqueness and commonalities of the adult learning process

AVIATION/AEROSPACE MANAGEMENT SPECIALIZATION (3)

A. Air transportation as part of the global, multi-modal system
B. Basic elements of Space Transportation System
C. State-of-the-art materials and practices used in manufacture and maintenance of A/A vehicles
D. Human factors problems and analysis
E. Major steps in developing a research study
F. Analysis of five major research methodologies
G. Production and procurement management in manufacturing
H. Supply and distribution functions in the logistic system
I. Strategic planning and strategic management concepts
J. Interaction of maintenance with operations, logistics, and training functions
K. Key factors impacting on R and D programs

AVIATION/AEROSPACE OPERATIONS SPECIALIZATION (4)

OVER...

A. Air transportation as part of the global, multi-modal system
B. Basic elements of Space Transportation System
C. State-of-the-art materials and practices used in manufacture and maintenance of A/A vehicles
D. Human factors problems and analysis
E. Major steps in developing a research study
F. Analysis of five major research methodologies
G. Past, present, and future airspace and ATC technology
H. Roles and responsibilities of FAA, NTSB, and military in accident investigation
I. Crash site investigation
J. Management and operations related to Air Carriers
K. Qualifications and training of aircraft dispatchers
L. Responsibilities associated with Corporate Aviation operations

AVIATION/AEROSPACE SAFETY SYSTEMS SPECIALIZATION (5)

A. Air transportation as part of the global, multi-modal system
B. Basic elements of Space Transportation System
C. State-of-the-art materials and practices used in manufacture and maintenance of A/A vehicles
D. Human factors problems and analysis
E. Major steps in developing a research study
F. Analysis of five major research methodologies

HUMAN FACTORS IN AVIATION SYSTEMS SPECIALIZATION (6)

A. Air transportation as part of the global, multi-modal system
B. Basic elements of Space Transportation System
C. State-of-the-art materials and practices used in manufacture and maintenance of A/A vehicles
D. Human factors problems and analysis
E. Major steps in developing a research study
F. Analysis of five major research methodologies

SPACE STUDIES SPECIALIZATION (7)

A. Air transportation as part of the global, multi-modal system
B. Basic elements of Space Transportation System
C. State-of-the-art materials and practices used in manufacture and maintenance of A/A vehicles
D. Human factors problems and analysis
E. Major steps in developing a research study
F. Analysis of five major research methodologies

M AEROSPACE ENGINEERING AND MS AEROSPACE ENGINEERING DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #12. Record all ratings on the survey itself, NOT on this flyer.

A. Ability to work independently on new scientific/engineering projects
B. Ability to design novel experiments
C. Knowledge of aerodynamics
D. Knowledge of aircraft structures
E. Knowledge of aerospace materials
F. Knowledge of computational techniques

M BUSINESS ADMINISTRATION IN AVIATION DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #12. Record all ratings on the survey itself, NOT on this flyer.

A. Apply key organizational concepts of group dynamics, leadership, conflict resolution, ethics, and motivation in implementing organizational goals
B. Apply the concepts and strategies involved in planning, implementing, and controlling a marketing plan with special emphasis on aviation organizations
C. Analyze financial statements and utilize corporate finance concepts and techniques in decision making within organizations
D. Access, analyze, and communicate information using multiple means/media
E. Apply statistical and quantitative analysis to solve business problems
F. Integrate knowledge of macro- and micro-economic concepts to support aviation operations
G. Execute strategy and policy required to obtain organizational goals in the competitive environment of airlines, airports, manufacturing, and government.

MS HUMAN FACTORS AND SYSTEMS DEGREE-SPECIFIC SKILLS

DIRECTIONS: Locate your track and use the items listed to answer question #12. Record all ratings on the survey itself, NOT on this flyer. Use the number in parentheses to fill in the last part of question asking for your degree code.

HUMAN FACTORS ENGINEERING TRACK (1)

A. Ability to identify human factors problems in operational environments
B. Knowledge of general systems concepts
C. Ability to apply the knowledge of human perception, cognition, and memory to operational and design problems
D. Understanding and ability to apply statistical and quantitative techniques
E. Understanding and ability to apply the strategies involved in planning, implementing, and controlling a research plan

SYSTEMS ENGINEERING TRACK (2)

A. Knowledge of general systems concepts
B. Ability to apply the knowledge of reliability, maintainability, logistics, safety, and producibility to operational and design problems
C. Ability to identify human factors problems in operational environments
D. Ability to balance operational, behavioral, economic, and logistical factors in operations and design
E. Understanding and ability to apply statistical and quantitative techniques
F. Understanding and ability to apply the strategies involved in planning, implementing, and controlling a research plan

MASTER OF SOFTWARE ENGINEERING DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #12. Record all ratings on the survey itself, NOT on this flyer.

T. Ability to apply software engineering processes (e.g. PSP, TSP, and CMMI) to the development of software products.

A. Ability to use software engineering methods and tools for the analysis and specification of software requirements.
B. Ability to use software engineering methods and tools for the analysis and specification of software architecture and design.
C. Ability to use software engineering methods and tools for software construction.
D. Ability to use software engineering methods and tools for the verification and validation of software systems.
E. Ability to communicate effectively and to perform successfully as part of a team.
F. Ability to use software engineering methods, techniques, and tools as they relate to the management of software development.

MS TECHNICAL MANAGEMENT
DEGREE-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #12. Record all ratings on the survey itself, NOT on this flyer.

A. Using computer techniques to solve management problems
B. Understanding and applying quantitative and statistical skills for decision making
C. Using computer graphics to enhance verbal presentations
D. Understanding electronic data systems and relational databases
E. Using financial accounting and quality control processes
F. Applying statistical methods to project development and problem solutions
G. Understanding systems development and operation
H. Understanding the role of leadership and management in a variety of organizational alternatives
I. Understanding the role of communication in team building and motivation
J. Assessing the regulatory, ethical, and legal environments of an organization or industry
K. Understanding marketing techniques applicable to technical operations
L. Understanding project management and tactical planning in the technical environment
M. Using management science principles and software to make better decisions
N. Understanding the cost and process of improving product quality in an organization

Employer Feedback Survey
Class of 2003
Survey Materials

January 18, 2005

«Q18_3»
«Q18_4»
«Q18_2»
«Q18_5»
«Q18_6», «Q18_7» «Q18_8»

Dear Supervisor:

Embry-Riddle is evaluating how its academic programs are meeting employers' needs and expectations. The best input we receive comes from the supervisors of our recent graduates. Our class of 2003 graduate, «fname» «mname» «lname» («MAJOR» «spec1»), provided your address so that we could contact you for this essential information.

Your response is extremely important to us because only a small sample of employers have received the enclosed survey. Your input will be combined with other employers to give us an overall picture of our graduates. With your feedback, we can tailor our programs to produce graduates that companies like yours desire.

The survey will take only a few minutes to complete. Some supervisors may have received surveys for multiple employees. We sincerely appreciate your time in filling each form out separately. Be assured that all of your responses are confidential. The code number listed on all correspondence is for non-respondent follow up only. A postage-paid envelope is included for your convenience. Please reply by **February 7.** If the individual listed on this letter no longer reports directly to you please forward this to the new supervisor, if possible, or return it to Embry-Riddle. If company policy restricts your participation in this survey, please let us know by noting so on this cover letter and returning it in the envelope provided.

Thank you for helping ERAU provide its graduates with the qualifications necessary for the employment world of the twenty-first century!

Sincerely,

George H. Ebbs, Ph.D.
President

Questions?
Please contact the Office of Institutional Research at
(386) 226-6225 or instrsch@erau.edu

«code_1»

February 28, 2005

«Q18_3»
«Q18_4»
«Q18_2»
«Q18_5»
«Q18_6», «Q18_7» «Q18_8»

Dear Supervisor:

Recently, you received Embry-Riddle's Employer Feedback Survey asking you to help us evaluate how our academic programs are meeting employers' needs and expectations. A member of our 2003 graduating class, «fname» «mname» «lname» («MAJOR»«spec1»), provided your address so that we could contact you for this important information.

We know that you are busy, but I hope you can find time to fill out and return the enclosed questionnaire. As the supervisor of a recent ERAU graduate, your opinion is particularly valuable. The employment world of the twenty-first century is highly demanding and we want to know how to best prepare our students. Your input will be combined with other employers to give us an overall picture of our graduates. The feedback you provide will help us tailor our programs to produce graduates who will succeed in businesses like yours.

The survey will take only a few minutes to complete. Some supervisors may have received surveys for multiple employees. We sincerely appreciate your time in filling each form out separately. Be assured that all of your responses are confidential. The code number listed on all correspondence is for non-respondent follow up only. A postage-paid envelope is included for your convenience. Please reply by **March 21.** If the individual listed on this letter no longer reports directly to you please forward this to the new supervisor, if possible, or return it to Embry-Riddle. If company policy restricts your participation in this survey, please let us know by noting so on this cover letter and returning it in the envelope provided.

If you have already sent out your reply, kindly disregard this notice. Thank you!

Sincerely,

George H. Ebbs, Ph.D.
President

Questions?
Please contact the Office of Institutional Research at
(386) 226-6225 or instrsch@erau.edu

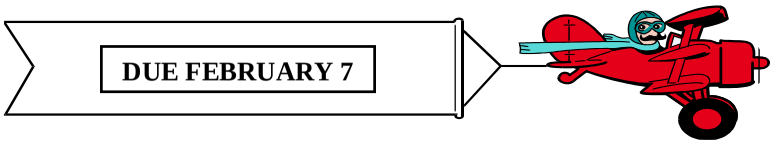
«code_2»

HAVE YOU RESPONDED TO THE EMBRY-RIDDLE EMPLOYER FEEDBACK SURVEY?

*If you have not yet responded, please take a few minutes to COMPLETE and RETURN the survey.

*If you have misplaced or did not receive your Employer Feedback Survey, please contact the Office of Institutional Research at (386) 226-6225 or instrsch@erau.edu.

Your participation is greatly appreciated. Thank you to those who have already responded!



CLASS OF 2003 EMPLOYER FEEDBACK SURVEY
Embry-Riddle Aeronautical University

DIRECTIONS For each question, completely fill in the oval that matches your response. Use ONLY blue or black ink, or a no. 2 pencil. All responses are confidential and will NOT be shared with your employee.

YOU AND YOUR COMPANY

1. Approximately how many ERAU graduates do you know professionally?
   ○ 1 ○ 2-5 ○ 6-10 ○ 11-50 ○ Over 50

2. How many ERAU graduates do you currently supervise?
   ○ 1 ○ 2-5 ○ 6-10 ○ 11-20 ○ Over 20

3. Did you graduate from ERAU?
   ○ Yes ○ No

4. What is your level of involvement in the hiring of new workers at your current company?
   ○ Make Final Decision
   ○ Provide Input
   ○ No Involvement (skip to question #7)

5. What is your preference for hiring graduates?
   ○ Strong preference for ERAU Graduates
   ○ Some preference for ERAU Graduates
   ○ No preference
   ○ Some preference for Other Graduates
   ○ Strong preference for Other Graduates

6. What preference do you have for multi-lingual candidates?
   ○ Strong Preference ○ Some Preference ○ No preference

7. How important do you consider global awareness and international experience for new employees.
   ○ Very Important ○ Somewhat Important ○ Not Important

8. What changes do you anticipate in your organization's need for aviation and aerospace professionals in the near future?
   ○ Increased Need ○ No Changes ○ Decreased Need

THE ERAU GRADUATE

Consider the ERAU graduate listed on your cover letter when answering the following questions.

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
9. The education of the graduate meets our company's needs.	○	○	○	○	○
10. He/she is a valuable employee.	○	○	○	○	○
11. He/she is a good candidate for promotion.	○	○	○	○	○

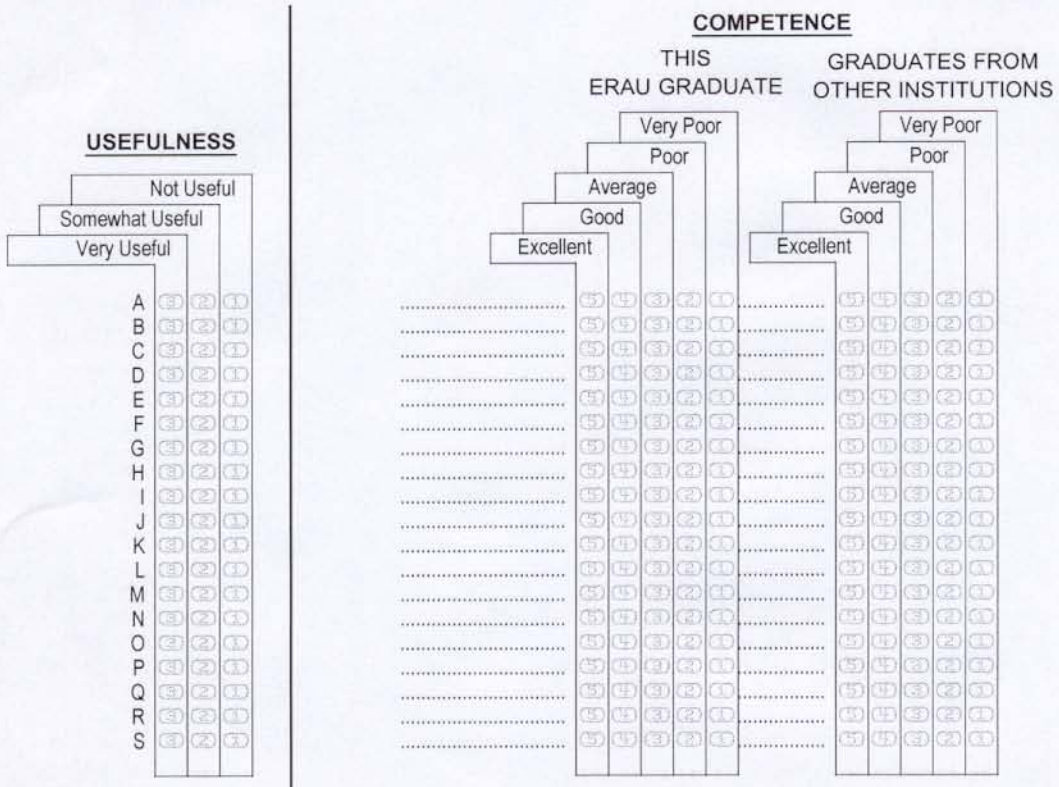
12. Compare to graduates from other institutions, his/her knowledge and skill level is:
   ○ Much Higher
   ○ Somewhat Higher
   ○ Equivalent
   ○ Somewhat Lower
   ○ Much Lower

13. For each general skill listed below, provide a response for:
   Usefulness: How useful the skill is at the employee's position
   Competence: The level of competence at the skill shown by this ERAU graduate vs. graduates from other institutions
   (leave Competence blank if you rate the skill as NOT USEFUL)

	USEFULNESS			COMPETENCE: THIS ERAU GRADUATE					COMPETENCE: GRADUATES FROM OTHER INSTITUTIONS				
	Not Useful	Somewhat Useful	Very Useful	Very Poor	Poor	Average	Good	Excellent	Very Poor	Poor	Average	Good	Excellent
Quantitative/mathematics	○	○	○	○	○	○	○	○	○	○	○	○	○
Basic PC software (word processing, spreadsheets, etc.)	○	○	○	○	○	○	○	○	○	○	○	○	○
Writing skills (non-technical)	○	○	○	○	○	○	○	○	○	○	○	○	○
Technical writing	○	○	○	○	○	○	○	○	○	○	○	○	○
Speaking before an audience	○	○	○	○	○	○	○	○	○	○	○	○	○
Applied research (information gathering and analysis)	○	○	○	○	○	○	○	○	○	○	○	○	○
Critical thinking	○	○	○	○	○	○	○	○	○	○	○	○	○
Independent work	○	○	○	○	○	○	○	○	○	○	○	○	○
Planning, scheduling, and carrying out projects	○	○	○	○	○	○	○	○	○	○	○	○	○
Defining and solving problems	○	○	○	○	○	○	○	○	○	○	○	○	○
Working in groups/teams	○	○	○	○	○	○	○	○	○	○	○	○	○
Leading/guiding others	○	○	○	○	○	○	○	○	○	○	○	○	○
Responsible actions and decision making	○	○	○	○	○	○	○	○	○	○	○	○	○
Understanding other people and other points of view	○	○	○	○	○	○	○	○	○	○	○	○	○
Environmental awareness	○	○	○	○	○	○	○	○	○	○	○	○	○
Political and economic awareness	○	○	○	○	○	○	○	○	○	○	○	○	○
Knowledge of political and physical geography	○	○	○	○	○	○	○	○	○	○	○	○	○

OVER...

14. Locate the separate blue flyer containing degree- specific skills taught in ERAU graduate's degree program. If you do not have a separate blue flyer, please skip to question # 15. For each skill listed, provide a response for Usefulness and Competence as in the previous question. Remember to leave Competence blank if you rate the skill as NOT USEFUL.



15. Considering this ERAU graduate, what strengths do you perceive in his/her degree program?

16. Considering this ERAU graduate, what weakness do you perceive in his/her degree program?

17. Additional comments that may assist ERAU in evaluating its degree programs.

THANK YOU FOR YOUR PARTICIPATION! PLEASE USE THE POSTAGE-PAID ENVELOPE PROVIDED AND RETURN SURVEY BY MARCH 25 , 2005 TO:

Embry-Riddle Aeronautical University
Office of Institutional Research
600 S. Clyde Morris Boulevard
Daytona Beach, FL 32114-3900

AS AIRCRAFT MAINTENANCE
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #14. Record all ratings on the survey itself, NOT on this flyer.

A. General knowledge of maintenance operations and safety
B. Electrical and electronic systems operations
C. Skills in metallic and non-metallic structures and repair
D. Understanding of a/c systems (hydraulics, environmentals, etc.)
E. Knowledge of reciprocating and turbine engines and their respective systems
F. Knowledge and ability to work with technical publications and manuals
G. Skills in troubleshooting
H. Use of precision measuring instruments and basic and special tools
I. Understanding and knowledge of FAA regulations

BS AERONAUTICAL SCIENCE
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #14. Record all ratings on the survey itself, NOT on this flyer.

A. Understanding aerodynamic performance of aircraft powered by reciprocating and turbine engines
B. Use of electronic navigation and flight control systems
C. Crew coordination (cockpit resource management)
D. Knowledge of flight physiology, awareness of flight psychology (human factors)
E. Awareness of safety and accident prevention
F. Understanding the concepts and process of meteorology
G. Instrument flight skill
H. Multi-engine/high performance aircraft operations
I. Knowledge of Federal Aviation Regulations
J. Aeronautical decision making (judgment skills)
K. Actions, attitudes, and knowledge of security considerations
L. Dealing with integrity issues
M. Developing your moral character
N. Assertiveness in a leadership or subordinate role
O. Ground/Flight training
P. Time spent in FTD/Simulators

BS AERONAUTICAL SYSTEMS MAINTENANCE
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #14. Record all ratings on the survey itself, NOT on this flyer.

A. General technical competence to perform job related tasks
B. Knowledge and skills to perform systems analysis
C. Knowledge and ability to work with technical publications and manuals
D. Skills in troubleshooting
E. Use of precision measuring instruments and basic and special tools
F. Understanding and applying management theory/concepts
G. Applying statistical and/or quantitative techniques to problem solving
H. General knowledge of maintenance operations and safety
I. Crew coordination (cockpit resource management)
J. Awareness of safety and accident prevention
K. Decision making (judgment skills)
L. Effective oral and written communication skills
M. Developing your moral character

BS AERONAUTICS
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #14. Record all ratings on the survey itself, NOT on this flyer.

A. Knowledge and understanding of aviation law and regulations
B. Understanding and application of management theory/concepts
C. Understanding and use of accounting and financial information
D. Knowledge and understanding of economic principles
E. Use of statistical/quantitative techniques to solve problems
F. Understanding of safety issues, employment of accident prevention techniques, safety program practices and management, and mishap investigation
G. Knowledge and understanding of advanced management concepts, issues, and practices as applied in a variety of aviation operations and services
H. Knowledge and understanding of aeronautical science, technology and operations, concepts, theory and applications
I. Knowledge and understanding of the many facets of the aviation industry
J. Knowledge and understanding of the influence and importance of the history of aviation

BS AEROSPACE ENGINEERING
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #14. Record all ratings on the survey itself, NOT on this flyer.

A. Apply knowledge of mathematics and science
B. Design and conduct experiments
C. Analyze and interpret experimental data
D. Apply knowledge of aerodynamics
E. Apply knowledge of aircraft performance
F. Apply knowledge of stability and control
G. Apply knowledge of aerospace materials
H. Apply knowledge of aircraft and spacecraft structures
I. Apply knowledge of propulsion
J. Apply knowledge of orbital mechanics
K. Apply knowledge of spacecraft dynamics
L. Apply knowledge of control systems
M. Apply knowledge of circuits, electronics, and instrumentation
N. Identify, formulate, and solve engineering problems
O. Use the techniques, skills, and modern engineering tools necessary for engineering practice
P. Design an aircraft or spacecraft system, component, or mission to meet desired needs
Q. Understand the impact of engineering decisions on society and the environment
R. Understand professional and ethical responsibility
S. Recognize the need to continue professional development throughout one's career

BS AEROSPACE STUDIES
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #14. Record all ratings on the survey itself, NOT on this flyer.

A. Effective communication skills
B. Interpretation of written material
C. Analytical thinking
D. International perspectives
E. Understanding of basic statistics
F. Cultural awareness
G. Interdisciplinary knowledge and skills

BS AIRCRAFT ENGINEERING TECHNOLOGY
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #14. Record all ratings on the survey itself, NOT on this flyer.

A. Aerodynamics/performance
B. Structures
C. Propulsion
D. Dynamic systems and control
E. Material science
F. Manufacturing processes
G. Non-destructive testing
H. Measurement and testing
I. Reliability/maintainability

BS AVIATION BUSINESS ADMINISTRATION
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #14. Record all ratings on the survey itself, NOT on this flyer.

A. Applying management theory/concepts into a dynamic organizational environment
B. Applying accounting and financial information for decision making in a for-profit and not-for-profit entity
C. Integrate knowledge of macro- and micro-economics into managerial decision making
D. Applying statistical and/or quantitative techniques to problem solving in organizations
E. Integrate marketing concepts/practices into executing global market strategies
F. Formulate business decisions by incorporating ethical standards and principles
G. Access, analyze, and communicate information using multiple means/media

BS AVIATION MAINTENANCE MANAGEMENT
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #14. Record all ratings on the survey itself, NOT on this flyer.

A. Understanding and applying management theory/concepts
B. Understanding and using accounting and financial information
C. Understanding how the market system works
D. Awareness of personnel procedures, collective bargaining, and the legal obligations of managements
E. Applying statistical and/or quantitative techniques to problem solving

BS AVIATION MAINTENANCE MANAGEMENT (AVIONICS) PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #14. Record all ratings on the survey itself, NOT on this flyer.

A. Understanding and applying management theory/concepts
B. Understanding and using accounting and financial information
C. Understanding how the market system works
D. Awareness of personnel procedures, collective bargaining, and the legal obligations of managements
E. Applying statistical and/or quantitative techniques to problem solving

BS AVIATION MAINTENANCE MANAGEMENT (MAINTENANCE) PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #14. Record all ratings on the survey itself, NOT on this flyer.

A. Understanding and applying management theory/concepts
B. Understanding and using accounting and financial information
C. Understanding how the market system works
D. Awareness of personnel procedures, collective bargaining, and the legal obligations of managements
E. Applying statistical and/or quantitative techniques to problem solving
F. General knowledge of maintenance operations and safety
G. Electrical and electronic systems operations
H. Skills in metallic and non-metallic structures and repair
I. Understanding of a/c systems (hydraulics, environmentals, etc.)
J. Knowledge of reciprocating and turbine engines and their respective systems
K. Knowledge of and ability to work with technical publications and manuals
L. Skills in troubleshooting
M. Use of precision measuring instruments and basic and special tools
N. Understanding and knowledge of FAA regulations

BS AVIATION TECHNOLOGY (AVIONICS/FLIGHT) PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #14. Record all ratings on the survey itself, NOT on this flyer.

A. General knowledge of maintenance operations and safety
B. Knowledge of and ability to work with technical publications and manuals
C. Skills in troubleshooting
D. Use of precision measuring instruments and basic and special tools
E. Understanding and knowledge of FAA regulations
F. Use of electronic navigation and flight control systems
G. Crew coordination (cockpit resource management)
H. Knowledge of flight physiology, awareness of flight psychology (human factors)
I. Awareness of safety and accident prevention
J. Understanding the concepts and process of meteorology
K. Instrument flight skill
L. Multi-engine/high performance aircraft operations
M. Aeronautical decision making (judgement skills)
N. Basic and advanced electronics analysis and theory
O. Avionics equipment and system analysis
P. Avionics/electronics system test, analysis, and repair

BS AVIATION TECHNOLOGY (MAINTENANCE/AVIONICS) PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #14. Record all ratings on the survey itself, NOT on this flyer.

A. General knowledge of maintenance operations and safety
B. Skills in metallic and non-metallic structures and repair
C. Understanding of a/c systems (hydraulics, environmentals, etc.)
D. Knowledge of reciprocating and turbine engines and their respective systems
E. Knowledge of and ability to work with technical publications and manuals
F. Skills in troubleshooting
G. Use of precision measuring instruments and basic and special tools
H. Understanding and knowledge of FAA regulations
I. Basic and advanced electronics analysis and theory
J. Avionics equipment and system analysis
K. Avionics/electronics system test, analysis, and repair

BS AVIATION TECHNOLOGY (MAINTENANCE/FLIGHT) PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #14. Record all ratings on the survey itself, NOT on this flyer.

A. General knowledge of maintenance operations and safety
B. Skills in metallic and non-metallic structures and repair
C. Understanding of a/c systems (hydraulics, environmentals, etc.)
D. Knowledge of reciprocating and turbine engines and their respective systems
E. Knowledge of and ability to work with technical publications and manuals
F. Skills in troubleshooting
G. Use of precision measuring instruments and basic and special tools
H. Understanding and knowledge of FAA regulations
I. Electrical and electronic systems operations
J. Understanding aerodynamic performance of aircraft powered by reciprocating and turbine engines
K. Use of electronic navigation and flight control systems
L. Crew coordination (cockpit resource management)
M. Knowledge of flight physiology, awareness of flight psychology (human factors)
N. Awareness of safety and accident prevention
O. Understanding the concepts and process of meteorology
P. Instrument flight skill
Q. Multi-engine/high performance aircraft operations
R. Aeronautical decision making (judgement skills)

BS AVIONICS ENGINEERING TECHNOLOGY PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #14. Record all ratings on the survey itself, NOT on this flyer.

A. Basic and advanced electronics analysis and theory
B. Avionics system analysis and design
C. Avionics/electronics system test
D. Applied mechanical engineering concepts
E. Basic design and engineering concepts
F. Applications software and programming
G. Reliability/maintainability
H. Systems integration

BS CIVIL ENGINEERING
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #14. Record all ratings on the survey itself, NOT on this flyer.

A. Airport planning and design
B. Transportation engineering
C. Hydraulics/hydrology
D. Materials testing
E. Construction engineering and management
F. Soil mechanics
G. Pavement design
H. Structural analysis and design
I. Computer skills for civil engineering analysis and design
J. CAD
K. Environmental engineering
L. Understand and adapt to the challenges of contemporary civil engineering
M. Apply interdisciplinary skills and knowledge to actual problems
N. Recognize the need to continue professional development throughout one's career

BS COMMUNICATION
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #14. Record all ratings on the survey itself, NOT on this flyer.

A. Ability to write competent press releases, press kits, white papers, brochures, and various public relations documents

B. Understand and apply public relations theory and practice in aviation as well as corporate and business contexts

C. Understand and apply basic journalistic writing genres: news articles, feature writing, news features, interviews, aviation reporting, and general news assignments

D. Understand fundamental theories of flight, history of aviation, and current trends in the aviation and aerospace industry

E. Competency in basic graphic design, page layout and typography

F. Competency in oral presentations and public speaking

G. Ability to think strategically and creatively in the planning and development of communication documents

H. Understand the importance of editing copy -- and editing copy according to the Associated Press Style Manual and Libel Manual (AP) -- together with fundamental understanding of libel law

I. Understand crisis communication theory and have the skill to develop a crisis communication plan for both aviation environment (airport, FBO, etc) or corporate environment

J. Understand the importance of writing for specific audiences and how to write for professional publication

K. Appreciate the importance of ethical behavior in the communication profession

L. Understand and apply core competencies in online and internet writing and design

M. Understand the increasing globalization of public affairs, public relations, image management, and international communication practice

N. Understand the increasing role of digital media -- and use "new media" -- in the professional world of communication

O. Possess the skills to work as part of teams in highly fluid and flexible organizational units

P. Understand basic management structures in print, public relations and communication organizations

Q. Understand and apply basic software skills for application in professional communication assignments

R. Develop a portfolio by end of senior year as a tool for obtaining employment in communication fields (required for graduation)

BS COMPUTER ENGINEERING
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #14. Record all ratings on the survey itself, NOT on this flyer.

A. Apply knowledge of mathematics, science, and engineering
B. Design and conduct experiments
C. Analyze and interpret data
D. Design a computer system or component to meet desired needs
E. Implement computer programs and computational processes to meet desired needs
F. Function on multi-disciplinary teams
G. Identify, formulate, and solve engineering problems
H. Understand professional and ethical responsibility
I. Communicate effectively
J. Understand the impact of engineering solutions in a global and societal context
K. Engage in life-long learning
L. Understand contemporary issues in computer engineering
M. Use modern engineering tools

BS COMPUTER SCIENCE
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #14. Record all ratings on the survey itself, NOT on this flyer.

A. Understand and apply object-oriented programming concepts to the development of software modules
B. Understand and apply algorithm design concepts and techniques to the design of software modules
C. Understand and apply data structures theory to the design of software modules
D. Apply theory of modularity, abstraction, and information hiding to the design of software systems
E. Understand the fundamental concepts of computer organization and architecture
F. Understand the fundamental concepts of real-time computing
G. Understand the theory and use of operating systems
H. Apply software engineering concepts to specify, design, construct, and test a software product
I. Understand the interrelationship between computer hardware and software fundamentals
J. Apply scientific, mathematical, and engineering concepts, methods, and tools to the solution of software engineering problems
K. Use defined life-cycle engineering processes designed to produce software systems that meet functional, quality, economic, and schedule requirements
L. Understand and appreciate an engineer's professional and ethical responsibilities
M. Understand and appreciate the importance of life-long learning

BS ELECTRICAL ENGINEERING
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #14. Record all ratings on the survey itself, NOT on this flyer.

A. Apply knowledge of mathematics, science, and engineering
B. Design and conduct experiments
C. Analyze and interpret data
D. Design a computer system or component to meet desired needs
E. Implement computer programs and computational processes to meet desired needs
F. Function on multi-disciplinary teams
G. Identify, formulate, and solve engineering problems
H. Understand professional and ethical responsibility
I. Communicate effectively
J. Understand the impact of engineering solutions in a global and societal context
K. Engage in life-long learning
L. Understand contemporary issues in electrical engineering
M. Use techniques, skills, and modern engineering tools necessary for engineering practice
N. Demonstrate depth within specific sub-areas of electrical engineering such as control, communications, systems, circuit design, etc.

BS ENGINEERING PHYSICS
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #14. Record all ratings on the survey itself, NOT on this flyer.

A. Apply knowledge of mathematics, science, and engineering
B. Design and conduct experiments
C. Analyze and interpret data
D. Design a system, component, or process to meet desired needs
E. Function on multi-disciplinary teams
F. Identify, formulate, and solve engineering problems
G. Understand professional and ethical responsibility
H. Communicate effectively
I. Understand the impact of engineering solutions in a global and societal context
J. Recognize and engage in life-long learning
K. Knowledge of contemporary issues
L. Use the techniques, skills, and modern engineering tools necessary for engineering practice
M. Knowledge of classical mechanics
N. Knowledge of engineering electricity and magnetism
O. Knowledge of space physics
P. Knowledge of quantum physics
Q. Knowledge of space systems engineering and design
R. Knowledge of electro-optical engineering
S. Knowledge of microcomputers and electronic instrumentation

BS HUMAN FACTORS PSYCHOLOGY
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #14. Record all ratings on the survey itself, NOT on this flyer.

A. Knowledge of human psychophysiological, cognitive, and perceptual functioning
B. Knowledge of human factors including analytic methods, models, and human capabilities and limitations
C. Knowledge of basic statistical procedures, including analysis of variance
D. Research methods and design skills
E. Effective oral and written communication skills
F. Ability to read, comprehend, and analyze results of published empirical studies in the human factors field
G. Understanding of the application of human factors and psychological knowledge in aviation and other applied domains

BS MANAGEMENT OF TECHNICAL OPERATIONS
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #14. Record all ratings on the survey itself, NOT on this flyer.

A. Relating management concepts to prior knowledge in a technical operations specialty
B. Using accounting, financial, and statistical information in the management of technical operations
C. Applying organizational and human resources theory and concepts in the workplace
D. Using computer technology to support technical operations
E. Understanding the social, economic, ethical, political, and legal environment of a technical enterprise
F. Applying strategic and project planning principles and techniques in a technical operation
G. Using general managerial skills (leadership, problem solving, and decision-making)
H. Using managerial skills in computers
I. Using managerial skills in technical writing
J. Using managerial skills in quantitative/mathematics

BS PROFESSIONAL AERONAUTICS
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #14. Record all ratings on the survey itself, NOT on this flyer.

A. Knowledge and understanding of aviation law and regulations
B. Understanding and application of management theory/concepts
C. Understanding and use of accounting and financial information
D. Use of statistical/quantitative techniques to solve problems
E. Understanding of safety issues, employment of accident prevention techniques, safety program practices and management, and mishap investigation
F. Knowledge and understanding of advanced management concepts, issues, and practices as applied in a variety of aviation operations and services
G. Knowledge and understanding of aeronautical science, technology and operations, concepts, theory and applications

BS SAFETY SCIENCE
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #14. Record all ratings on the survey itself, NOT on this flyer.

A. Knowledge and application of OHSA safety regulations for general industry
B. Ability to analyze and apply systems safety techniques and reliability concepts
C. Analysis and application capability in aircraft accident investigation
D. Analysis and application capability in aircraft crash survival analysis of fixed wing aircraft
E. Knowledge, analysis and application capability in aircraft power plant accident investigation relative to reciprocating/gas turbine engines and propeller systems
F. Knowledge, analysis and application capability in safety program management
G. Ability to work in teams
H. Ability to write and formulate a technical report
I. Professional presentation skills
J. Competency in determining an airport's compliance with federal safety regulations
K. Ability to develop, test and maintain an airport emergency plan
L. Basic knowledge in the fundamentals of Aircraft Rescue and Fire Fighting
M. Ability to identify and explain relevant legal issues that exist in the health and safety industry
N. Ability to apply failure processes of aircraft components to determine accidents causes
O. Ability to analyze human factors issues in aviation accidents

BS SCIENCE, TECHNOLOGY, AND GLOBALIZATION
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #14. Record all ratings on the survey itself, NOT on this flyer.

A. Understand, analyze, and work with international cultures, different types of business enterprises, private and public organizations
B. Define and find solutions to complex problems that may have multiple, open-ended solutions
C. Communicate clearly and effectively to different audiences and in different circumstances
D. Work effectively in diverse teams
E. Act responsibly and demonstrate ethical behavior
F. Conduct independent research at the level of a senior thesis or professional-level consulting project

M AERONAUTICAL SCIENCE
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #14. Record all ratings on the survey itself, NOT on this flyer.

AERONAUTICS SPECIALIZATION

A. Air transportation as part of the global, multi-modal system
B. Basic elements of Space Transportation System
C. State-of-the-art materials and practices used in manufacture and maintenance of A/A vehicles
D. Human factors problems and analysis
E. Major steps in developing a research study
F. Analysis of five major research methodologies
G. Advances in Aviation/Aerospace aerodynamics
H. Value of simulation in aviation training programs
I. Operation of high technology meteorology data computer systems
J. Evaluation of aircraft and spacecraft guidance, control, communication, and navigation systems
K. Analysis of spacecraft propulsion systems

M AERONAUTICAL SCIENCE
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #14. Record all ratings on the survey itself, NOT on this flyer.

AVIATION/AEROSPACE EDUCATION TECHNOLOGY SPECIALIZATION

A. Air transportation as part of the global, multi-modal system
B. Basic elements of Space Transportation System
C. State-of-the-art materials and practices used in manufacture and maintenance of A/A vehicles
D. Human factors problems and analysis
E. Major steps in developing a research study
F. Analysis of five major research methodologies
G. Role of education in Aviation/Aerospace industry
H. Value of simulation in aviation training programs
I. Similarities and differences between pedagogy and andragogy
J. Uniqueness and commonalities of the adult learning process

M AERONAUTICAL SCIENCE
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #14. Record all ratings on the survey itself, NOT on this flyer.

AVIATION/AEROSPACE MANAGEMENT SPECIALIZATION

A. Air transportation as part of the global, multi-modal system
B. Basic elements of Space Transportation System
C. State-of-the-art materials and practices used in manufacture and maintenance of A/A vehicles
D. Human factors problems and analysis
E. Major steps in developing a research study
F. Analysis of five major research methodologies
G. Production and procurement management in manufacturing
H. Supply and distribution functions in the logistic system
I. Strategic planning and strategic management concepts
J. Interaction of maintenance with operations, logistics, and training functions
K. Key factors impacting on R and D programs

M AERONAUTICAL SCIENCE
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #14. Record all ratings on the survey itself, NOT on this flyer.

AVIATION/AEROSPACE OPERATIONS SPECIALIZATION

A. Air transportation as part of the global, multi-modal system
B. Basic elements of Space Transportation System
C. State-of-the-art materials and practices used in manufacture and maintenance of A/A vehicles
D. Human factors problems and analysis
E. Major steps in developing a research study
F. Analysis of five major research methodologies
G. Past, present, and future airspace and ATC technology
H. Roles and responsibilities of FAA, NTSB, and military in accident investigation
I. Crash site investigation
J. Management and operations related to Air Carriers
K. Qualifications and training of aircraft dispatchers
L. Responsibilities associated with Corporate Aviation operations

M AERONAUTICAL SCIENCE
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #14. Record all ratings on the survey itself, NOT on this flyer.

AVIATION/AEROSPACE SAFETY SYSTEMS SPECIALIZATION

A. Air transportation as part of the global, multi-modal system
B. Basic elements of Space Transportation System
C. State-of-the-art materials and practices used in manufacture and maintenance of A/A vehicles
D. Human factors problems and analysis
E. Major steps in developing a research study
F. Analysis of five major research methodologies

M AERONAUTICAL SCIENCE
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #14. Record all ratings on the survey itself, NOT on this flyer.

HUMAN FACTORS IN AVIATION SYSTEMS SPECIALIZATION

A. Air transportation as part of the global, multi-modal system
B. Basic elements of Space Transportation System
C. State-of-the-art materials and practices used in manufacture and maintenance of A/A vehicles
D. Human factors problems and analysis
E. Major steps in developing a research study
F. Analysis of five major research methodologies

M AERONAUTICAL SCIENCE
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #14. Record all ratings on the survey itself, NOT on this flyer.

SPACE STUDIES SPECIALIZATION

A. Air transportation as part of the global, multi-modal system
B. Basic elements of Space Transportation System
C. State-of-the-art materials and practices used in manufacture and maintenance of A/A vehicles
D. Human factors problems and analysis
E. Major steps in developing a research study
F. Analysis of five major research methodologies

M AEROSPACE ENGINEERING AND MS AEROSPACE ENGINEERING
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #14. Record all ratings on the survey itself, NOT on this flyer.

A. Ability to work independently on new scientific/engineering projects
B. Ability to design novel experiments
C. Knowledge of aerodynamics
D. Knowledge of aircraft structures
E. Knowledge of aerospace materials
F. Knowledge of computational techniques

M BUSINESS ADMINISTRATION IN AVIATION
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #14. Record all ratings on the survey itself, NOT on this flyer.

A. Apply key organizational concepts of group dynamics, leadership, conflict resolution, ethics, and motivation in implementing organizational goals
B. Apply the concepts and strategies involved in planning, implementing, and controlling a marketing plan with special emphasis on aviation/aerospace organizations
C. Analyze financial statements and utilize corporate finance concepts and techniques in decision making within organizations
D. Access, analyze, and communicate information using multiple means/media
E. Apply statistical and quantitative analysis to solve business problems
F. Integrate knowledge of macro- and micro-economic concepts to support aviation/aerospace operations
G. Formulate and execute strategies and policies required to achieve organizational goals in the competitive environment of airlines, airports, aerospace, manufacturing, and government.

MS HUMAN FACTORS AND SYSTEMS
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #14. Record all ratings on the survey itself, NOT on this flyer.

HUMAN FACTORS ENGINEERING TRACK

A. Ability to identify human factors problems in operational environments
B. Knowledge of general systems concepts
C. Ability to apply the knowledge of human perception, cognition, and memory to operational and design problems
D. Understanding and ability to apply statistical and quantitative techniques
E. Understanding and ability to apply the strategies involved in planning, implementing, and controlling a research plan

MS HUMAN FACTORS AND SYSTEMS
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #14. Record all ratings on the survey itself, NOT on this flyer.

SYSTEMS ENGINEERING TRACK

A. Knowledge of general systems concepts
B. Ability to apply the knowledge of reliability, maintainability, logistics, safety, and producibility to operational and design problems
C. Ability to identify human factors problems in operational environments
D. Ability to balance operational, behavioral, economic, and logistical factors in operations and design
E. Understanding and ability to apply statistical and quantitative techniques
F. Understanding and ability to apply the strategies involved in planning, implementing, and controlling a research plan

MS SAFETY SCIENCE
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #14. Record all ratings on the survey itself, NOT on this flyer.

A. Ability to anticipate and recognize occupational health and safety problems in the industrial and aviation environments
B. Ability to evaluate occupational health and safety problems in the industrial and aviation environments
C. Ability to apply knowledge of occupational health and safety (industrial hygiene, ergonomics, occupational safety, and aviation safety), along with data analyses, to the solution of both existing and new design problems in the industrial and aviation environments
D. Understanding and ability to apply statistical and quantitative techniques
E. Understanding and ability to apply the strategies involved in planning, implementing, and controlling a research plan

MS TECHNICAL MANAGEMENT
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #14. Record all ratings on the survey itself, NOT on this flyer.

A. Using computer techniques to solve management problems
B. Understanding and applying quantitative and statistical skills for decision making
C. Using computer graphics to enhance verbal presentations
D. Understanding electronic data systems and relational databases
E. Using financial accounting and quality control processes
F. Applying statistical methods to project development and problem solutions
G. Understanding systems development and operation
H. Understanding the role of leadership and management in a variety of organizational alternatives
I. Understanding the role of communication in team building and motivation
J. Assessing the regulatory, ethical, and legal environments of an organization or industry
K. Understanding marketing techniques applicable to technical operations
L. Understanding project management and tactical planning in the technical environment
M. Using management science principles and software to make better decisions
N. Understanding the cost and process of improving product quality in an organization

M SOFTWARE ENGINEERING
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #14. Record all ratings on the survey itself, NOT on this flyer.

A. Ability to apply software engineering processes (e.g. PSP, TSP, and CMMI) to the development of software products
B. Ability to use software engineering methods and tools for the analysis and specification of software requirements
C. Ability to use software engineering methods and tools for the analysis and specification of software architecture and design
D. Ability to use software engineering methods and tools for software construction
E. Ability to use software engineering methods and tools for the verification and validation of software systems
F. Ability to communicate effectively and to perform successfully as part of a team
G. Ability to use software engineering methods, techniques, and tools as they relate to the management of software development

Employer Feedback Survey
Class of 2004
Survey Materials

January 17, 2006

«Q18c»
«Q18d»
«Q18b»
«Q18e»
«Q18f», «Q18g» «Q18h»

Dear Supervisor:

Embry-Riddle is evaluating how its academic programs are meeting employers' needs and expectations. The best input we receive comes from the supervisors of our recent graduates. Our class of 2004 graduate, «fname» «mname» «lname» («MAJOR»«spec1»), provided your address so that we could contact you for this essential information.

Your response is extremely important to us because only a small sample of employers have received the enclosed survey. Your input will be combined with other employers to give us an overall picture of our graduates. With your feedback, we can tailor our programs to produce graduates that companies like yours desire.

The survey will take only a few minutes to complete. Some supervisors may have received surveys for multiple employees. We sincerely appreciate your time in filling each form out separately. Be assured that all of your responses are confidential. The code number listed on all correspondence is for non-respondent follow up only. A postage-paid envelope is included for your convenience. Please reply by **February 6th.** If the individual listed on this letter no longer reports directly to you please forward this to the new supervisor, if possible, or return it to Embry-Riddle. If company policy restricts your participation in this survey, please let us know by noting so on this cover letter and returning it in the envelope provided.

Thank you for helping ERAU provide its graduates with the qualifications necessary for the employment world of the twenty-first century!

Sincerely,

John P. Johnson, PhD
Interim President and Provost

Questions?
Please contact the Office of Institutional Research at
(386) 226-6225 or instrsch@erau.edu

February 27, 2006

«Q18c»
«Q18d»
«Q18b»
«Q18e»
«Q18f», «Q18g» «Q18h»

Dear Supervisor:

Recently, you received Embry-Riddle's Employer Feedback Survey asking you to help us evaluate how our academic programs are meeting employers' needs and expectations. A member of our 2004 graduating class, «fname» «mname» «lname» («MAJOR»«spec1»), provided your address so that we could contact you for this important information.

We know that you are busy, but I hope you can find time to fill out and return the enclosed questionnaire. As the supervisor of a recent ERAU graduate, your opinion is particularly valuable. The employment world of the twenty-first century is highly demanding and we want to know how to best prepare our students. Your input will be combined with other employers to give us an overall picture of our graduates. The feedback you provide will help us tailor our programs to produce graduates who will succeed in businesses like yours.

The survey will take only a few minutes to complete. Some supervisors may have received surveys for multiple employees. We sincerely appreciate your time in filling each form out separately. Be assured that all of your responses are confidential. The code number listed on all correspondence is for non-respondent follow up only. A postage-paid envelope is included for your convenience. Please reply by **March 20.** If the individual listed on this letter no longer reports directly to you please forward this to the new supervisor, if possible, or return it to Embry-Riddle. If company policy restricts your participation in this survey, please let us know by noting so on this cover letter and returning it in the envelope provided.

If you have already sent out your reply, kindly disregard this notice. Thank you!

Sincerely,

John P. Johnson, PhD
Interim President and Provost

Questions?
Please contact the Office of Institutional Research at
(386) 226-6225 or instrsch@erau.edu

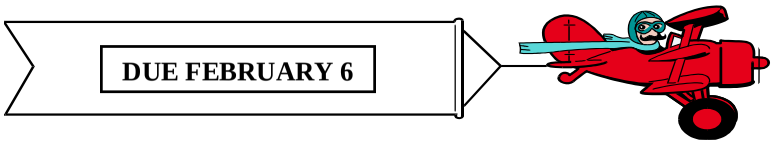
«code_2»

HAVE YOU RESPONDED TO THE EMBRY-RIDDLE EMPLOYER FEEDBACK SURVEY?

*If you have not yet responded, please take a few minutes to COMPLETE and RETURN the survey.

*If you have misplaced or did not receive your Employer Feedback Survey, please contact the Office of Institutional Research at (386) 226-6225 or instrsch@erau.edu.

Your participation is greatly appreciated. Thank you to those who have already responded!



CLASS OF 2004 EMPLOYER FEEDBACK SURVEY
Embry-Riddle Aeronautical University

DIRECTIONS For each question, completely fill in the oval that matches your response. Use ONLY blue or black ink, or a no. 2 pencil. All responses are confidential and will NOT be shared with your employee.

YOU AND YOUR COMPANY

1. Approximately how many ERAU graduates do you know professionally?
   ○ 1 ○ 2-5 ○ 6-10 ○ 11-50 ○ Over 50
2. How many ERAU graduates do you currently supervise?
   ○ 1 ○ 2-5 ○ 6-10 ○ 11-20 ○ Over 20
3. Did you graduate from or attend ERAU? ○ Yes ○ No
4. What is your level of involvement in the hiring of new workers at your current company?
   ○ Make final decision
   ○ Provide input
   ○ No involvement (skip to question #8)
5. What is your preference for hiring graduates?
   ○ Strong preference for ERAU graduates
   ○ Some preference for ERAU graduates
   ○ No preference
   ○ Some preference for other graduates
   ○ Strong preference for other graduates
6. From what other institutions does your company hire?

   _____

   _____

   _____

7. What preference do you have for multi-lingual candidates?
   ○ Strong preference ○ Some preference ○ No preference
8. How important do you consider global awareness and international experience for new employees?
   ○ Very important ○ Somewhat important ○ Not important
9. What changes do you anticipate in your organization's need for aviation and aerospace professionals in the near future?
   ○ Increased need ○ No changes ○ Decreased need

THE ERAU GRADUATE

Consider the ERAU graduate listed on your cover letter when answering the following questions.

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
10. The education of the graduate meets our company's needs.	○	○	○	○	○
11. He/she is a valuable employee.	○	○	○	○	○
12. He/she is a good candidate for promotion.	○	○	○	○	○

13. Compared to graduates from other institutions, his/her knowledge and skill level is:
   ○ Much higher
   ○ Somewhat higher
   ○ Equivalent
   ○ Somewhat lower
   ○ Much lower

14. For each general skill listed below, provide a response for both:
   USEFULNESS: How useful the skill is in the employee's position
   COMPETENCE: The level of competence at the skill shown by this ERAU graduate vs. graduates from other institutions
   (leave COMPETENCE blank if you rate the skill as Not Useful)

	USEFULNESS	COMPETENCE: THIS ERAU GRADUATE	COMPETENCE: GRADUATES FROM OTHER INSTITUTIONS
	Not Useful / Somewhat Useful / Very Useful	Very Poor / Poor / Average / Good / Excellent	Very Poor / Poor / Average / Good / Excellent
Quantitative/mathematics	○ ○ ○	..... ○ ○ ○ ○ ○	..... ○ ○ ○ ○ ○
Basic PC software (word processing, spreadsheets, etc.)	○ ○ ○	..... ○ ○ ○ ○ ○	..... ○ ○ ○ ○ ○
Writing skills (non-technical)	○ ○ ○	..... ○ ○ ○ ○ ○	..... ○ ○ ○ ○ ○
Technical writing	○ ○ ○	..... ○ ○ ○ ○ ○	..... ○ ○ ○ ○ ○
Speaking before an audience	○ ○ ○	..... ○ ○ ○ ○ ○	..... ○ ○ ○ ○ ○
Listening skills	○ ○ ○	..... ○ ○ ○ ○ ○	..... ○ ○ ○ ○ ○
Applied research (information gathering and analysis)	○ ○ ○	..... ○ ○ ○ ○ ○	..... ○ ○ ○ ○ ○
Critical thinking	○ ○ ○	..... ○ ○ ○ ○ ○	..... ○ ○ ○ ○ ○
Independent work	○ ○ ○	..... ○ ○ ○ ○ ○	..... ○ ○ ○ ○ ○
Planning, scheduling, and carrying out projects	○ ○ ○	..... ○ ○ ○ ○ ○	..... ○ ○ ○ ○ ○
Defining and solving problems	○ ○ ○	..... ○ ○ ○ ○ ○	..... ○ ○ ○ ○ ○
Working in groups/teams	○ ○ ○	..... ○ ○ ○ ○ ○	..... ○ ○ ○ ○ ○
Leading/guiding others	○ ○ ○	..... ○ ○ ○ ○ ○	..... ○ ○ ○ ○ ○
Responsible actions and decision making	○ ○ ○	..... ○ ○ ○ ○ ○	..... ○ ○ ○ ○ ○
Ability to adapt to change	○ ○ ○	..... ○ ○ ○ ○ ○	..... ○ ○ ○ ○ ○
Understanding other people and other points of view	○ ○ ○	..... ○ ○ ○ ○ ○	..... ○ ○ ○ ○ ○
Environmental awareness	○ ○ ○	..... ○ ○ ○ ○ ○	..... ○ ○ ○ ○ ○
Political and economic awareness	○ ○ ○	..... ○ ○ ○ ○ ○	..... ○ ○ ○ ○ ○
Knowledge of political and physical geography	○ ○ ○	..... ○ ○ ○ ○ ○	..... ○ ○ ○ ○ ○

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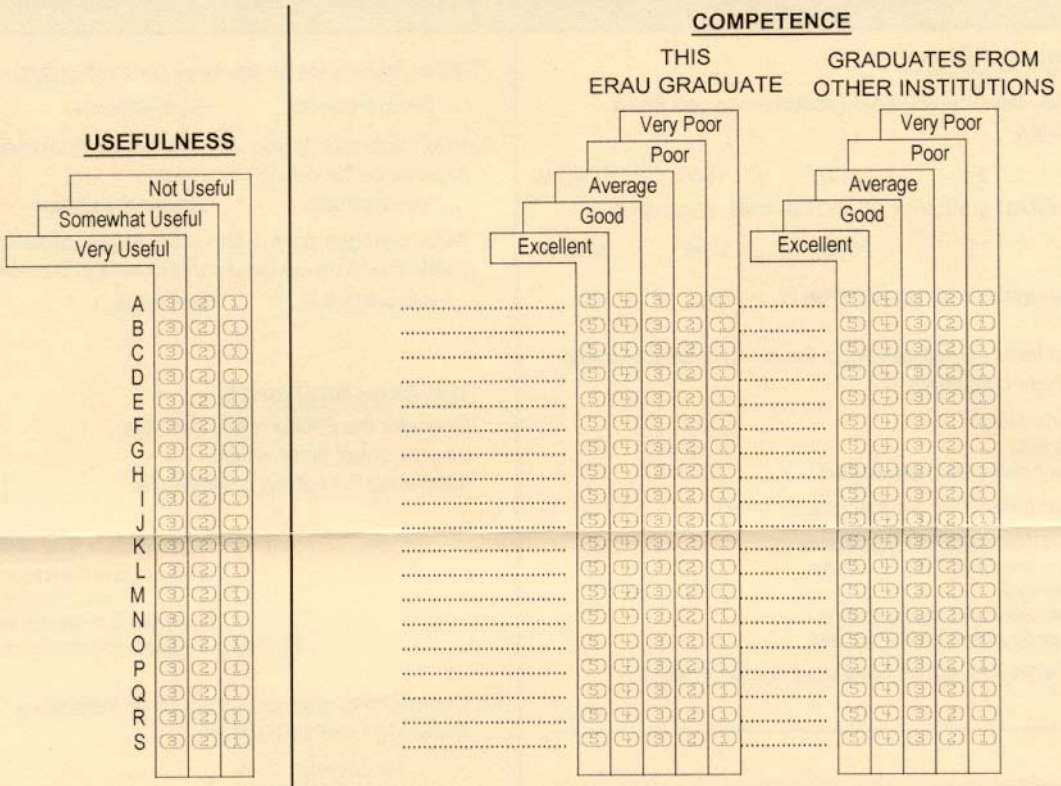
OVER...

15. Locate the separate blue flyer containing program- specific skills taught in his/her ERAU graduate degree programs. If you do not have a separate blue flyer, please skip to question # 16. For each skill listed, provide a response for USEFULNESS and COMPETENCE as in the previous question. Remember to leave COMPETENCE blank if you rate the skill as Not Useful.



16. Considering this ERAU graduate, what strengths do you perceive in his/her degree program?

17. Considering this ERAU graduate, what weaknesses do you perceive in his/her degree program?

18. Additional comments that may assist ERAU in evaluating its degree programs:

THANK YOU FOR YOUR PARTICIPATION! PLEASE USE THE POSTAGE-PAID ENVELOPE PROVIDED AND RETURN SURVEY BY MARCH 20, 2006 TO:

Embry-Riddle Aeronautical University
Office of Institutional Research
600 S. Clyde Morris Boulevard
Daytona Beach, FL 32114-3900

AS AIRCRAFT MAINTENANCE
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #15. Record all ratings on the survey itself, NOT on this flyer.

A. General knowledge of maintenance operations and safety
B. Electrical and electronic systems operations
C. Skills in metallic and non-metallic structures and repair
D. Understanding of a/c systems (hydraulics, environmentals, etc.)
E. Knowledge of reciprocating and turbine engines and their respective systems
F. Knowledge and ability to work with technical publications and manuals
G. Skills in troubleshooting
H. Use of precision measuring instruments and basic and special tools
I. Understanding and knowledge of FAA regulations

BS AERONAUTICAL SCIENCE
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #15. Record all ratings on the survey itself, NOT on this flyer.

A. Understanding aerodynamic performance of aircraft powered by reciprocating and turbine engines
B. Use of electronic navigation and flight control systems
C. Crew coordination (cockpit resource management)
D. Knowledge of flight physiology, awareness of flight psychology (human factors)
E. Understanding of safety issues, employment of accident prevention techniques, safety program practices and management, and mishap investigation
F. Understanding the concepts and process of meteorology
G. Instrument flight skill
H. Multi-engine/high performance aircraft operations
I. Knowledge of Federal Aviation Regulations
J. Aeronautical decision making (judgment skills)
K. Actions, attitudes, and knowledge of security considerations
L. Dealing with integrity issues
M. Development of moral character
N. Assertiveness in a leadership or subordinate role
O. Ground/Flight training aptitude
P. Time required in FTD/Simulators to meet qualification standards

BS AERONAUTICAL SYSTEMS MAINTENANCE
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #15. Record all ratings on the survey itself, NOT on this flyer.

A. General technical competence to perform job related tasks
B. Knowledge and skills to perform systems analysis
C. Knowledge and ability to work with technical publications and manuals
D. Skills in troubleshooting
E. Use of precision measuring instruments and basic and special tools
F. Understanding and applying management theory/concepts
G. Applying statistical and/or quantitative techniques to problem solving
H. General knowledge of maintenance operations and safety
I. Crew coordination (cockpit resource management)
J. Awareness of safety and accident prevention
K. Decision making (judgment skills)
L. Effective oral and written communication skills
M. Development of moral character

BS AERONAUTICS
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #15. Record all ratings on the survey itself, NOT on this flyer.

A. Knowledge and understanding of aviation law and regulations
B. Understanding and application of management theory/concepts
C. Knowledge and understanding of economic principles
D. Use of statistical/quantitative techniques to solve problems
E. Knowledge and understanding of aviation, technology and operations, concepts, theory and applications
F. Knowledge and understanding of the many facets of the aviation industry
G. Dealing with integrity issues
H. Development of moral character
I. Assertiveness in a leadership or subordinate role
J. Knowledge and understanding of basic computer skills such as e-mail, word processing, presentations, and spreadsheet software
K. Knowledge of scientific principles

BS AEROSPACE ENGINEERING
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #15. Record all ratings on the survey itself, NOT on this flyer.

A. Apply knowledge of mathematics and science
B. Design and conduct experiments
C. Analyze and interpret experimental data
D. Apply knowledge of aerodynamics
E. Apply knowledge of aircraft performance
F. Apply knowledge of stability and control
G. Apply knowledge of aerospace materials
H. Apply knowledge of aircraft and spacecraft structures
I. Apply knowledge of propulsion
J. Apply knowledge of orbital mechanics
K. Apply knowledge of spacecraft dynamics
L. Apply knowledge of control systems
M. Apply knowledge of circuits, electronics, and instrumentation
N. Identify, formulate, and solve engineering problems
O. Use the techniques, skills, and modern engineering tools necessary for engineering practice
P. Design an aircraft or spacecraft system, component, or mission to meet desired needs
Q. Understand the impact of engineering decisions on society and the environment
R. Understand professional and ethical responsibility
S. Recognize the need to continue professional development throughout one's career

BS AEROSPACE STUDIES
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #15. Record all ratings on the survey itself, NOT on this flyer.

A. Effective communication skills
B. Interpretation of written material
C. Analytical thinking
D. International perspectives
E. Understanding of basic statistics
F. Cultural awareness
G. Interdisciplinary knowledge and skills

BS AIRCRAFT ENGINEERING TECHNOLOGY
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #15. Record all ratings on the survey itself, NOT on this flyer.

A. Aerodynamics/performance
B. Structures
C. Propulsion
D. Dynamic systems and control
E. Material science
F. Manufacturing processes
G. Non-destructive testing
H. Measurement and testing
I. Reliability/maintainability

BS AIR TRAFFIC MANAGEMENT
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #15. Record all ratings on the survey itself, NOT on this flyer.

A. Understanding the history, mission, purpose and duty priority of air traffic control
B. Knowledge of Instrument Approach Procedure (IAP), Departure Procedure (DP), and Standard Arrival Route (STAR) Charts.
C. Understanding of Radar separation procedures, airspace to be protected, speed adjustments, vectoring techniques and traffic coordination applicable to terminal Air Traffic Control operations
D. Knowledge of basic VFR Control Tower operations, including duties and responsibilities associated with the operating positions of local control, ground control, and flight data/clearance delivery
E. Knowledge of Federal Aviation Regulations as they pertain to Air Traffic Control
F. Understanding of Air Route Traffic Control Center operations as they pertain to radar separation of aircraft
G. Understanding of Air Route Traffic Control Center operations as the pertain to non-radar separation of aircraft

BS APPLIED METEOROLOGY
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #15. Record all ratings on the survey itself, NOT on this flyer.

A. Skills needed to provide weather services to customers.
B. Understand contemporary issues in atmospheric sciences
C. Knowledge of techniques, skills, and computer models for weather data gathering, analysis, and product generation.
D. Ability to translate complex atmospheric features into the practical language of operational decision makers.
E. Understand the limits of current knowledge and need for continued learning.
F. Application of mathematical and physical principals of meteorology to society's problems.
G. Ability to utilize computers effectively in meteorological applications.
H. Dealing with integrity issues
I. Development of moral character

BS AVIATION BUSINESS ADMINISTRATION
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #15. Record all ratings on the survey itself, NOT on this flyer.

A. Applying management theory/concepts into a dynamic organizational environment
B. Applying accounting and financial information for decision making in a for-profit and not-for-profit entity
C. Integrate knowledge of macro- and micro-economics into managerial decision making
D. Applying statistical and/or quantitative techniques to problem solving in organizations
E. Integrate marketing concepts/practices into executing global market strategies
F. Formulate business decisions by incorporating ethical standards and principles
G. Access, analyze, and communicate information using multiple means/media

BS AVIATION MAINTENANCE MANAGEMENT
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #15. Record all ratings on the survey itself, NOT on this flyer.

A. Understanding and applying management theory/concepts
B. Understanding and using accounting and financial information
C. Understanding how the market system works
D. Awareness of personnel procedures, collective bargaining, and the legal obligations of managements
E. Applying statistical and/or quantitative techniques to problem solving

BS AVIATION TECHNOLOGY (AVIONICS/FLIGHT)
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #15. Record all ratings on the survey itself, NOT on this flyer.

A. General knowledge of maintenance operations and safety
B. Knowledge of and ability to work with technical publications and manuals
C. Skills in troubleshooting
D. Use of precision measuring instruments and basic and special tools
E. Understanding and knowledge of FAA regulations
F. Use of electronic navigation and flight control systems
G. Crew coordination (cockpit resource management)
H. Knowledge of flight physiology, awareness of flight psychology (human factors)
I. Awareness of safety and accident prevention
J. Understanding the concepts and process of meteorology
K. Instrument flight skill
L. Multi-engine/high performance aircraft operations
M. Aeronautical decision making (judgment skills)
N. Basic and advanced electronics analysis and theory
O. Avionics equipment and system analysis
P. Avionics/electronics system test, analysis, and repair

BS AVIATION TECHNOLOGY (MAINTENANCE/AVIONICS) PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #15. Record all ratings on the survey itself, NOT on this flyer.

A. General knowledge of maintenance operations and safety
B. Skills in metallic and non-metallic structures and repair
C. Understanding of a/c systems (hydraulics, environmentals, etc.)
D. Knowledge of reciprocating and turbine engines and their respective systems
E. Knowledge of and ability to work with technical publications and manuals
F. Skills in troubleshooting
G. Use of precision measuring instruments and basic and special tools
H. Understanding and knowledge of FAA regulations
I. Basic and advanced electronics analysis and theory
J. Avionics equipment and system analysis
K. Avionics/electronics system test, analysis, and repair

BS AVIATION TECHNOLOGY (MAINTENANCE/FLIGHT) PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #15. Record all ratings on the survey itself, NOT on this flyer.

A. General knowledge of maintenance operations and safety
B. Skills in metallic and non-metallic structures and repair
C. Understanding of a/c systems (hydraulics, environmentals, etc.)
D. Knowledge of reciprocating and turbine engines and their respective systems
E. Knowledge of and ability to work with technical publications and manuals
F. Skills in troubleshooting
G. Use of precision measuring instruments and basic and special tools
H. Understanding and knowledge of FAA regulations
I. Electrical and electronic systems operations
J. Understanding aerodynamic performance of aircraft powered by reciprocating and turbine engines
K. Use of electronic navigation and flight control systems
L. Crew coordination (cockpit resource management)
M. Knowledge of flight physiology, awareness of flight psychology (human factors)
N. Awareness of safety and accident prevention
O. Understanding the concepts and process of meteorology
P. Instrument flight skill
Q. Multi-engine/high performance aircraft operations
R. Aeronautical decision making (judgment skills)

BS AVIONICS ENGINEERING TECHNOLOGY
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #15. Record all ratings on the survey itself, NOT on this flyer.

A. Basic and advanced electronics analysis and theory
B. Avionics system analysis and design
C. Avionics/electronics system test
D. Applied mechanical engineering concepts
E. Basic design and engineering concepts
F. Applications software and programming
G. Reliability/maintainability
H. Systems integration

BS CIVIL ENGINEERING
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #15. Record all ratings on the survey itself, NOT on this flyer.

A. Airport planning and design
B. Transportation engineering
C. Hydraulics/hydrology
D. Materials testing
E. Construction engineering and management
F. Soil mechanics
G. Pavement design
H. Structural analysis and design
I. Computer skills for civil engineering analysis and design
J. CAD
K. Environmental engineering
L. Understand and adapt to the challenges of contemporary civil engineering
M. Apply interdisciplinary skills and knowledge to actual problems
N. Recognize the need to continue professional development throughout one's career

BS COMMUNICATION
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #15. Record all ratings on the survey itself, NOT on this flyer.

A. Ability to write competent press releases, press kits, white papers, brochures, and various public relations documents
B. Understand and apply public relations theory and practice in aviation as well as corporate and business contexts
C. Understand and apply basic journalistic writing genres: news articles, feature writing, news features, interviews, aviation reporting, and general news assignments
D. Understand fundamental theories of flight, history of aviation, and current trends in the aviation and aerospace industry
E. Competency in basic graphic design, page layout and typography
F. Competency in oral presentations and public speaking
G. Ability to think strategically and creatively in the planning and development of communication documents
H. Understand the importance of editing copy -- and editing copy according to the Associated Press Style Manual and Libel Manual (AP) -- together with fundamental understanding of libel law
I. Understand crisis communication theory and have the skill to develop a crisis communication plan for both

aviation environment (airport, FBO, etc) or corporate environment

J. Understand the importance of writing for specific audiences and how to write for professional publication
K. Appreciate the importance of ethical behavior in the communication profession
L. Understand and apply core competencies in online and internet writing and design
M. Understand the increasing globalization of public affairs, public relations, image management, and international communication practice
N. Understand the increasing role of digital media -- and use "new media" -- in the professional world of communication
O. Possess the skills to work as part of teams in highly fluid and flexible organizational units
P. Understand basic management structures in print, public relations and communication organizations
Q. Understand and apply basic software skills for application in professional communication assignments
R. Develop a portfolio by end of senior year as a tool for obtaining employment in communication fields (required for graduation)

BS COMPUTER ENGINEERING PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #15. Record all ratings on the survey itself, NOT on this flyer.

A. Apply knowledge of mathematics, science, and engineering
B. Design and conduct experiments
C. Analyze and interpret data
D. Design a computer system or component to meet desired needs
E. Implement computer programs and computational processes to meet desired needs
F. Function on multi-disciplinary teams
G. Identify, formulate, and solve engineering problems
H. Understand professional and ethical responsibility
I. Communicate effectively
J. Understand the impact of engineering solutions in a global and societal context
K. Engage in life-long learning
L. Understand contemporary issues in computer engineering
M. Use modern engineering tools

BS COMPUTER SCIENCE PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #15. Record all ratings on the survey itself, NOT on this flyer.

A. Understand and apply object-oriented programming concepts to the development of software modules
B. Understand and apply algorithm design concepts and techniques to the design of software modules
C. Understand and apply data structures theory to the design of software modules
D. Apply theory of modularity, abstraction, and information hiding to the design of software systems
E. Understand the fundamental concepts of computer organization and architecture
F. Understand the fundamental concepts of real-time computing
G. Understand the theory and use of operating systems
H. Apply software engineering concepts to specify, design, construct, and test a software product
I. Understand the interrelationship between computer hardware and software fundamentals
J. Apply scientific, mathematical, and engineering concepts, methods, and tools to the solution of software engineering problems
K. Use defined life-cycle engineering processes designed to produce software systems that meet functional, quality, economic, and schedule requirements
L. Understand and appreciate an engineer's professional and ethical responsibilities

M. Understand and appreciate the importance of life-long learning

BS ELECTRICAL ENGINEERING
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #15. Record all ratings on the survey itself, NOT on this flyer.

A. Apply knowledge of mathematics, science, and engineering
B. Design and conduct experiments
C. Analyze and interpret data
D. Design a computer system or component to meet desired needs
E. Implement computer programs and computational processes to meet desired needs
F. Function on multi-disciplinary teams
G. Identify, formulate, and solve engineering problems
H. Understand professional and ethical responsibility
I. Communicate effectively
J. Understand the impact of engineering solutions in a global and societal context
K. Engage in life-long learning
L. Understand contemporary issues in electrical engineering
M. Use techniques, skills, and modern engineering tools necessary for engineering practice
N. Demonstrate depth within specific sub-areas of electrical engineering such as control, communications, systems, circuit design, etc.

BS ENGINEERING PHYSICS
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #15. Record all ratings on the survey itself, NOT on this flyer.

A. Apply knowledge of mathematics, science, and engineering
B. Design and conduct experiments
C. Analyze and interpret data
D. Design a system, component, or process to meet desired needs
E. Function on multi-disciplinary teams
F. Identify, formulate, and solve engineering problems
G. Understand professional and ethical responsibility
H. Communicate effectively
I. Understand the impact of engineering solutions in a global and societal context
J. Recognize and engage in life-long learning
K. Knowledge of contemporary issues
L. Use the techniques, skills, and modern engineering tools necessary for engineering practice
M. Knowledge of classical mechanics
N. Knowledge of engineering electricity and magnetism
O. Knowledge of space physics
P. Knowledge of quantum physics
Q. Knowledge of space systems engineering and design
R. Knowledge of electro-optical engineering
S. Knowledge of microcomputers and electronic instrumentation

BS HUMAN FACTORS PSYCHOLOGY
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #15. Record all ratings on the survey itself, NOT on this flyer.

A. Knowledge of human psychophysiological, cognitive, and perceptual functioning
B. Knowledge of human factors including analytic methods, models, and human capabilities and limitations
C. Knowledge of basic statistical procedures, including analysis of variance
D. Research methods and design skills
E. Effective oral and written communication skills
F. Ability to read, comprehend, and analyze results of published empirical studies in the human factors field
G. Understanding of the application of human factors and psychological knowledge in aviation and other applied domains

BS MANAGEMENT OF TECHNICAL OPERATIONS
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #15. Record all ratings on the survey itself, NOT on this flyer.

A. Relating management concepts to prior knowledge in a technical operations specialty
B. Using accounting, financial, and statistical information in the management of technical operations
C. Applying organizational and human resources theory and concepts in the workplace
D. Using computer technology to support technical operations
E. Understanding the social, economic, ethical, political, and legal environment of a technical enterprise
F. Applying strategic and project planning principles and techniques in a technical operation
G. Using general managerial skills (leadership, problem solving, and decision-making)
H. Using managerial skills in computers
I. Using managerial skills in technical writing
J. Using managerial skills in quantitative/mathematics

BS PROFESSIONAL AERONAUTICS
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #15. Record all ratings on the survey itself, NOT on this flyer.

A. Knowledge and understanding of aviation law and regulations
B. Understanding and application of management theory/concepts
C. Understanding and use of accounting and financial information
D. Use of statistical/quantitative techniques to solve problems
E. Understanding of safety issues, employment of accident prevention techniques, safety program practices and management, and mishap investigation
F. Knowledge and understanding of advanced management concepts, issues, and practices as applied in a variety of aviation operations and services
G. Knowledge and understanding of aeronautical science, technology and operations, concepts, theory and applications

BS SAFETY SCIENCE
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #15. Record all ratings on the survey itself, NOT on this flyer.

A. Knowledge and application of OHSA safety regulations for general industry
B. Ability to analyze and apply systems safety techniques and reliability concepts
C. Analysis and application capability in aircraft accident investigation
D. Analysis and application capability in aircraft crash survival analysis of fixed wing aircraft
E. Knowledge, analysis and application capability in aircraft power plant accident investigation relative to reciprocating/gas turbine engines and propeller systems
F. Knowledge, analysis and application capability in safety program management
G. Ability to work in teams
H. Ability to write and formulate a technical report
I. Professional presentation skills
J. Competency in determining an airport's compliance with federal safety regulations
K. Ability to develop, test and maintain an airport emergency plan
L. Basic knowledge in the fundamentals of Aircraft Rescue and Fire Fighting
M. Ability to identify and explain relevant legal issues that exist in the health and safety industry
N. Ability to apply failure processes of aircraft components to determine accidents causes
O. Ability to analyze human factors issues in aviation accidents

BS SCIENCE, TECHNOLOGY, AND GLOBALIZATION
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #15. Record all ratings on the survey itself, NOT on this flyer.

A. Understand, analyze, and work with international cultures, different types of business enterprises, private and public organizations
B. Define and find solutions to complex problems that may have multiple, open-ended solutions
C. Communicate clearly and effectively to different audiences and in different circumstances
D. Work effectively in diverse teams
E. Act responsibly and demonstrate ethical behavior
F. Conduct independent research at the level of a senior thesis or professional-level consulting project

M AERONAUTICAL SCIENCE
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #15. Record all ratings on the survey itself, NOT on this flyer.

AERONAUTICS SPECIALIZATION

A. Air transportation as part of the global, multi-modal system
B. Basic elements of Space Transportation System
C. State-of-the-art materials and practices used in manufacture and maintenance of A/A vehicles
D. Human factors problems and analysis
E. Major steps in developing a research study
F. Analysis of five major research methodologies
G. Advances in Aviation/Aerospace aerodynamics
H. Value of simulation in aviation training programs
I. Operation of high technology meteorology data computer systems
J. Evaluation of aircraft and spacecraft guidance, control, communication, and navigation systems
K. Analysis of spacecraft propulsion systems

M AERONAUTICAL SCIENCE
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #15. Record all ratings on the survey itself, NOT on this flyer.

AVIATION/AEROSPACE EDUCATION TECHNOLOGY SPECIALIZATION

A. Air transportation as part of the global, multi-modal system
B. Basic elements of Space Transportation System
C. State-of-the-art materials and practices used in manufacture and maintenance of A/A vehicles
D. Human factors problems and analysis
E. Major steps in developing a research study
F. Analysis of five major research methodologies
G. Role of education in Aviation/Aerospace industry
H. Value of simulation in aviation training programs
I. Similarities and differences between pedagogy and andragogy
J. Uniqueness and commonalities of the adult learning process

M AERONAUTICAL SCIENCE
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #15. Record all ratings on the survey itself, NOT on this flyer.

AVIATION/AEROSPACE MANAGEMENT SPECIALIZATION

A. Air transportation as part of the global, multi-modal system
B. Basic elements of Space Transportation System
C. State-of-the-art materials and practices used in manufacture and maintenance of A/A vehicles
D. Human factors problems and analysis
E. Major steps in developing a research study
F. Analysis of five major research methodologies
G. Production and procurement management in manufacturing
H. Supply and distribution functions in the logistic system
I. Strategic planning and strategic management concepts
J. Interaction of maintenance with operations, logistics, and training functions
K. Key factors impacting on R and D programs

M AERONAUTICAL SCIENCE
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #15. Record all ratings on the survey itself, NOT on this flyer.

AVIATION/AEROSPACE OPERATIONS SPECIALIZATION

A. Air transportation as part of the global, multi-modal system
B. Basic elements of Space Transportation System
C. State-of-the-art materials and practices used in manufacture and maintenance of A/A vehicles
D. Human factors problems and analysis
E. Major steps in developing a research study
F. Analysis of five major research methodologies
G. Past, present, and future airspace and ATC technology
H. Roles and responsibilities of FAA, NTSB, and military in accident investigation
I. Crash site investigation
J. Management and operations related to Air Carriers
K. Qualifications and training of aircraft dispatchers

L. Responsibilities associated with Corporate Aviation operations

M AERONAUTICAL SCIENCE
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #15. Record all ratings on the survey itself, NOT on this flyer.

AVIATION/AEROSPACE SAFETY SYSTEMS SPECIALIZATION

A. Air transportation as part of the global, multi-modal system
B. Basic elements of Space Transportation System
C. State-of-the-art materials and practices used in manufacture and maintenance of A/A vehicles
D. Human factors problems and analysis
E. Major steps in developing a research study
F. Analysis of five major research methodologies

M AERONAUTICAL SCIENCE
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #15. Record all ratings on the survey itself, NOT on this flyer.

HUMAN FACTORS IN AVIATION SYSTEMS SPECIALIZATION

A. Air transportation as part of the global, multi-modal system
B. Basic elements of Space Transportation System
C. State-of-the-art materials and practices used in manufacture and maintenance of A/A vehicles
D. Human factors problems and analysis
E. Major steps in developing a research study
F. Analysis of five major research methodologies

M AERONAUTICAL SCIENCE
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #15. Record all ratings on the survey itself, NOT on this flyer.

SPACE STUDIES SPECIALIZATION

A. Air transportation as part of the global, multi-modal system
B. Basic elements of Space Transportation System
C. State-of-the-art materials and practices used in manufacture and maintenance of A/A vehicles
D. Human factors problems and analysis
E. Major steps in developing a research study
F. Analysis of five major research methodologies

MS AERONAUTICS
(Formally M Aeronautical Science)
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #15. Record all ratings on the survey itself, NOT on this flyer.

AVIATION/AEROSPACE EDUCATION TECHNOLOGY SPECIALIZATION

A. Air transportation as part of the global, multi-modal system
B. Basic elements of Space Transportation System
C. State-of-the-art materials and practices used in manufacture and maintenance of A/A vehicles
D. Human factors problems and analysis
E. Major steps in developing a research study
F. Analysis of five major research methodologies
G. Role of education in Aviation/Aerospace industry
H. Value of simulation in aviation training programs
I. Similarities and differences between pedagogy and andragogy
J. Uniqueness and commonalities of the adult learning process

MS AERONAUTICS
(Formally M Aeronautical Science)
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #15. Record all ratings on the survey itself, NOT on this flyer.

AVIATION/AEROSPACE MANAGEMENT SPECIALIZATION

A. Air transportation as part of the global, multi-modal system
B. Basic elements of Space Transportation System
C. State-of-the-art materials and practices used in manufacture and maintenance of A/A vehicles
D. Human factors problems and analysis
E. Major steps in developing a research study
F. Analysis of five major research methodologies
G. Production and procurement management in manufacturing
H. Supply and distribution functions in the logistic system
I. Strategic planning and strategic management concepts
J. Interaction of maintenance with operations, logistics, and training functions
K. Key factors impacting on R and D programs

MS AERONAUTICS
(Formally M Aeronautical Science)
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #15. Record all ratings on the survey itself, NOT on this flyer.

AVIATION/AEROSPACE OPERATIONS SPECIALIZATION

A. Air transportation as part of the global, multi-modal system
B. Basic elements of Space Transportation System
C. State-of-the-art materials and practices used in manufacture and maintenance of A/A vehicles
D. Human factors problems and analysis
E. Major steps in developing a research study
F. Analysis of five major research methodologies
G. Past, present, and future airspace and ATC technology
H. Roles and responsibilities of FAA, NTSB, and military in accident investigation
I. Crash site investigation

J. Management and operations related to Air Carriers
K. Qualifications and training of aircraft dispatchers
L. Responsibilities associated with Corporate Aviation operations

MS AERONAUTICS
(Formally M Aeronautical Science)
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #15. Record all ratings on the survey itself, NOT on this flyer.

AVIATION/AEROSPACE SAFETY SYSTEMS SPECIALIZATION

A. Air transportation as part of the global, multi-modal system
B. Basic elements of Space Transportation System
C. State-of-the-art materials and practices used in manufacture and maintenance of A/A vehicles
D. Human factors problems and analysis
E. Major steps in developing a research study
F. Analysis of five major research methodologies

MS AERONAUTICS
(Formally M Aeronautical Science)
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #15. Record all ratings on the survey itself, NOT on this flyer.

HUMAN FACTORS IN AVIATION SYSTEMS SPECIALIZATION

A. Air transportation as part of the global, multi-modal system
B. Basic elements of Space Transportation System
C. State-of-the-art materials and practices used in manufacture and maintenance of A/A vehicles
D. Human factors problems and analysis
E. Major steps in developing a research study
F. Analysis of five major research methodologies

M AEROSPACE ENGINEERING AND MS AEROSPACE ENGINEERING
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #15. Record all ratings on the survey itself, NOT on this flyer.

A. Ability to work independently on new scientific/engineering projects
B. Ability to design novel experiments
C. Knowledge of aerodynamics
D. Knowledge of aircraft structures
E. Knowledge of aerospace materials
F. Knowledge of computational techniques

M BUSINESS ADMINISTRATION IN AVIATION
M BUSINESS ADMINISTRATION IN AVIATION (online)
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #15. Record all ratings on the survey itself, NOT on this flyer.

A. Apply key organizational concepts of group dynamics, leadership, conflict resolution, ethics, and motivation in implementing organizational goals

B. Apply the concepts and strategies involved in planning, implementing, and controlling a marketing plan with special emphasis on aviation/aerospace organizations

C. Analyze financial statements and utilize corporate finance concepts and techniques in decision making within organizations

D. Access, analyze, and communicate information using multiple means/media

E. Apply statistical and quantitative analysis to solve business problems

F. Integrate knowledge of macro- and micro-economic concepts to support aviation/aerospace operations

G. Formulate and execute strategies and policies required to achieve organizational goals in the competitive environment of airlines, airports, aerospace, manufacturing, and government.

MS HUMAN FACTORS AND SYSTEMS
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #15. Record all ratings on the survey itself, NOT on this flyer. Use the number in parentheses to fill in the last part of question asking for your degree code.

HUMAN FACTORS ENGINEERING TRACK

A. Ability to identify human factors problems in operational environments

B. Knowledge of general systems concepts

C. Ability to apply the knowledge of human perception, cognition, and memory to operational and design problems

D. Understanding and ability to apply statistical and quantitative techniques

E. Understanding and ability to apply the strategies involved in planning, implementing, and controlling a research plan

MS HUMAN FACTORS AND SYSTEMS
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #15. Record all ratings on the survey itself, NOT on this flyer. Use the number in parentheses to fill in the last part of question asking for your degree code.

SYSTEMS ENGINEERING TRACK

A. Knowledge of general systems concepts

B. Ability to apply the knowledge of reliability, maintainability, logistics, safety, and producibility to operational and design problems

C. Ability to identify human factors problems in operational environments

D. Ability to balance operational, behavioral, economic, and logistical factors in operations and design

E. Understanding and ability to apply statistical and quantitative techniques

F. Understanding and ability to apply the strategies involved in planning, implementing, and controlling a research plan

MS SAFETY SCIENCE
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #15. Record all ratings on the survey itself, NOT on this flyer.

A. Ability to anticipate and recognize occupational health and safety problems in the industrial and aviation environments
B. Ability to evaluate occupational health and safety problems in the industrial and aviation environments
C. Ability to apply knowledge of occupational health and safety (industrial hygiene, ergonomics, occupational safety, and aviation safety), along with data analyses, to the solution of both existing and new design problems in the industrial and aviation environments
D. Understanding and ability to apply statistical and quantitative techniques
E. Understanding and ability to apply the strategies involved in planning, implementing, and controlling a research plan
F. Dealing with integrity issues
G. Development of moral character
H. Assertiveness in a leadership or subordinate role

MS TECHNICAL MANAGEMENT
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #15. Record all ratings on the survey itself, NOT on this flyer.

A. Using computer techniques to solve management problems
B. Understanding and applying quantitative and statistical skills for decision making
C. Using computer graphics to enhance verbal presentations
D. Understanding electronic data systems and relational databases
E. Using financial accounting and quality control processes
F. Applying statistical methods to project development and problem solutions
G. Understanding systems development and operation
H. Understanding the role of leadership and management in a variety of organizational alternatives
I. Understanding the role of communication in team building and motivation
J. Assessing the regulatory, ethical, and legal environments of an organization or industry
K. Understanding marketing techniques applicable to technical operations
L. Understanding project management and tactical planning in the technical environment
M. Using management science principles and software to make better decisions
N. Understanding the cost and process of improving product quality in an organization

M SOFTWARE ENGINEERING
PROGRAM-SPECIFIC SKILLS

DIRECTIONS: Use the items listed to answer question #15. Record all ratings on the survey itself, NOT on this flyer.

A. Ability to apply software engineering processes (e.g. PSP, TSP, and CMMI) to the development of software products

B. Ability to use software engineering methods and tools for the analysis and specification of software requirements

C. Ability to use software engineering methods and tools for the analysis and specification of software architecture and design

D. Ability to use software engineering methods and tools for software construction

E. Ability to use software engineering methods and tools for the verification and validation of software systems

F. Ability to communicate effectively and to perform successfully as part of a team

G. Ability to use software engineering methods, techniques, and tools as they relate to the management of software development