CLASS OF 2003 EMPLOYER FEEDBACK SURVEY Embry-Riddle Aeronautical University

For each question, completely fill in the oval that matches your response. Use ONLY blue or black ink, or DIRECTIONS a no. 2 pencil. All responses are confidential and will NOT be shared with your employee. YOU AND YOUR COMPANY 7. How important do you consider global awareness and international 1. Approximately how many ERAU graduates do you know experience for new employees. professionally? Somewhat Important Not Important Very Important G 6-10 11-50 Over 50 2-5 01 8. What changes do you anticipate in your organization's need for aviation and aerospace professionals in the near future? 2. How many ERAU graduates do you currently supervise? No Changes 2-5 C 6-10 C 11-20 Over 20 3. Did you graduate from ERAU? THE ERAU GRADUATE Yes - No Consider the ERAU graduate listed Strongly Disagree on your cover letter when Disagree 4. What is your level of involvement in the hiring of new workers answering the following questions. Neutral at your current company? Agree Make Final Decision Strongly Agree Provide Input No Involvement (skip to question #7) The education of the graduate meets our company's needs. 10. He/she is a valuable employee. 5. What is your preference for hiring graduates? He/she is a good candidate for promotion. Strong preference for ERAU Graduates Some preference for ERAU Graduates No preference 12. Compare to graduates from other institutions, his/her Some preference for Other Graduates knowledge and skill level is: Strong preference for Other Graduates Much Higher Somewhat Higher 6. What preference do you have for multi-lingual candidates? Equivalent Strong Preference Some Preference No preference 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) COMPETENCE GRADUATES FROM THIS OTHER INSTITUTIONS **ERAU GRADUATE** Very Poor Very Poor USEFULNESS Poor Poor Not Useful Average Average Somewhat Useful Good Good Excellent Excellent Very Useful 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

	COMPETENCE
	THIS GRADUATES FROM
	ERAU GRADUATE OTHER INSTITUTIONS
USEFULNESS	Very Poor Very Poor
Not Useful	Poor Poor Average Average
Somewhat Useful	Good Good
Very Useful	Excellent Excellent
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Considering this ERAU graduate, what weakness do you	perceive in his/her degree program?
	its degree programs.
Additional comments that may assist ERAU in evaluating	

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. Knowledge of autopilot, flight director, flight management system, and similar computerized systems used on contemporary transport category aircraft
- 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. Knowledge of the concepts 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

- 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 repairC. 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

- 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
- 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

- 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
- l. 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

- 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
- H. Dealing with integrity issues
- I. Developing your moral character
- J. Assertiveness in a leadership or subordinate role

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 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 investigationD. 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
- 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

- 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 Avi ation/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)

- 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

- 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.

- 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.

MS TECHNICAL MANAGEMENT DEGREE-SPECIFIC SKILLS

- 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