EMBRY-RIDDLE
Aeronautical University

Class of 2013 GRADUATING STUDENT SURVEY
UNDERGRADUATE
DAYTONA BEACH CAMPUS

Directions: Consider the degree you are receiving from ERAU in 2013 when completing this survey. Be sure to read all options before selecting an answer. All responses are confidential. When you are finished with the entire survey, click the "SUBMIT" button at the bottom of the form. If you make a mistake or wish to start over, click the "RESET" button also at the bottom of the form.

Note: It is important to let your responses navigate you through the survey and not use the "back" or "forward" buttons of your browser.

What is your preferred email address?

Do you belong to or plan to join any professional societies or organizations? (choose one)

- ○ Yes, one or more related to my ERAU degree
- ○ Yes, none related to my ERAU degree
- ○ No

Do you have any FAA certificates or licenses?

- ○ Yes
- ○ No

If yes, indicate when you obtained them, in relation to your enrollment at ERAU.

	Before ERAU	During ERAU	Plan on Obtaining	N/A
A&P	○	○	○	○
Private Pilot	○	○	○	○
Commercial Pilot	○	○	○	○
ATP	○	○	○	○
CFI	○	○	○	○
CFII	○	○	○	○
BGI	○	○	○	○
AGI	○	○	○	○
FE	○	○	○	○
IGI	○	○	○	○
ME Rating	○	○	○	○
Instrument Rating	○	○	○	○
Type Rating	○	○	○	○
Other	○	○	○	○

Overall University Experience

How strongly do you agree/disagree with the following statements:

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
If I could start over again, I would choose to attend ERAU	○	○	○	○	○
If I could start over again, I would select the same ERAU campus	○	○	○	○	○
If asked by a prospective student, I would recommend ERAU for an education in my major	○	○	○	○	○
If I could start over again, I would choose the same program/major	○	○	○	○	○
I feel a sense of pride and loyalty toward ERAU	○	○	○	○	○

Did you have to borrow money (money that must be repaid) to graduate from ERAU?

○ Yes

○ No

If yes, approximately how much? $ [   ]

Program Experience

Major

- AS Aviation Maintenance Science
- AS Aviation Maint Sci/BS Aeronautics
- AS/BS Aviation Maintenance Science
- BS Aeronautical Science
- BS Aeronautical Systems Maintenance
- BS Aeronautics
- BS Aerospace Electronics
- BS Aerospace Engineering
- BS/M Aerospace Engineering
- BS Aerospace Studies
- BS Air Traffic Management

- BS Applied Meteorology
- BS Aviation Maintenance Science
- BS Aviation Business Adminstration
- BS Aviation Management
- BS Business Admin
- BS Civil Engineering
- BS Communication
- BS Computational Mathematics
- BS Computer Engineering
- BS Computer Science
- BS Electrical Engineering
- BS Engineering Physics

- BS/MS Engineering Physics
- BS Homeland Security
- BS Human Factors Psychology
- BS Human Factors Psychology/MS Human Factors & Systems
- BS Interdisciplinary Studies
- BS Mechanical Engineering
- BS/MS Mechanical Engineering
- BS Safety Science
- BS Software Engineering
- BS/M Software Engineering
- BS Space Physics

Do you have a second major?

- Yes
- No

Major

- BS Aeronautical Science
- BS Aeronautical Systems Maintenance
- BS Aeronautics
- BS Aerospace Electronics
- BS Aerospace Engineering
- BS Aerospace Studies
- BS Air Traffic Management
- BS Applied Meteorology
- BS Aviation Maintenance Science
- BS Aviation Management
- BS Business Admin
- BS Civil Engineering
- BS Communication

- BS Computational Mathematics
- BS Computer Engineering
- BS Computer Science
- BS Electrical Engineering
- BS Engineering Physics
- BS Homeland Security
- BS Human Factors Psychology
- BS Interdisciplinary Studies
- BS Mechanical Engineering
- BS Safety Science
- BS Software Engineering
- BS Space Physics

What is your Area of Concentration (AOC)?

- ○ MS Human Factors and Systems (Human Factors Engr)
- ○ MS Human Factors and Systems (Systems Engr)

Which track/specialization did you complete in Mechanical Engineering?

- ☐ High Performance Vehicles (HPV)
- ☐ Robotic Systems (RS)
- ☐ Clean Energy Systems (CES)

Which track/specialization did you complete in Aerospace Engineering?

- ☐ Propulsion
- ☐ Aeronautics
- ☐ Astronautics

What was your area of concentration in Computer Science?

- ☐ Applied Mathematics
- ☐ Business Administration
- ☐ Homeland Security
- ☐ Human Factors

Which track/specialization did you complete in Electrical Engineering?

- ☐ Aerospace Systems
- ☐ Avionics
- ☐ None

Overall how would you rate your {DBmajor} at ERAU in the following areas?

	Excellent	Good	Average	Poor	Very Poor
Quality of instruction	○	○	○	○	○
Quality of course content in your major field	○	○	○	○	○
Academic PREPARATION for your INTENDED career	○	○	○	○	○
Preparation in becoming a manager/leader	○	○	○	○	○
Quality of interactions with faculty	○	○	○	○	○
Quality of interactions with staff	○	○	○	○	○

Overall how would you rate your {major2} at ERAU in the following areas?

	Excellent	Good	Average	Poor	Very Poor
Quality of instruction	○	○	○	○	○
Quality of course content in your major field	○	○	○	○	○
Academic PREPARATION for your INTENDED career	○	○	○	○	○
Preparation in becoming a manager/leader	○	○	○	○	○
Quality of interactions with faculty	○	○	○	○	○
Quality of interactions with staff	○	○	○	○	○

Did you have an Academic Advisor for your program?

○ Yes

○ No

Overall how would you rate your advisor in the following areas?

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
My advisor spent sufficient time with me	○	○	○	○	○
My advisor was accessible when I needed help	○	○	○	○	○
My advisor reviewed my academic record prior to giving advice	○	○	○	○	○
My advisor understood my program requirements	○	○	○	○	○
My advisor understood my graduation requirements	○	○	○	○	○
My advisor is someone I would recommend to others	○	○	○	○	○
My advisor was useful throughout my academic career	○	○	○	○	○
The advice of my advisor was useful in my search for employment	○	○	○	○	○
The advice of my advisor was useful in my search for graduate school	○	○	○	○	○
I forsee maintaining communications with my advisor after graduation	○	○	○	○	○

Has it taken you MORE THAN 4 years to complete your degree requirements at ERAU?

- ○ Yes
- ○ No

How many additional semesters beyond four years has it taken you to graduate?

- ○ 1
- ○ 2
- ○ 3
- ○ 4
- ○ 5
- ○ Other

If other, please specify: [   ]

If yes, please indicate the reason(s) why: (select all that apply)

- ☐ I had to withdraw during a semester(s)
- ☐ I took a semester(s) off from school
- ☐ I changed majors
- ☐ Work caused me to take a reduced course load
- ☐ Internship caused me to take a reduced course load
- ☐ Co-op caused me to take a reduced course load
- ☐ My degree program typically takes more than 4 years
- ☐ I am earning a double major
- ☐ I am earning a minor
- ☐ I am simultaneously doing course work toward a graduate degree
- ☐ My required courses were not offered when needed
- ☐ Tuition and other costs of attendance limited my enrollment
- ☐ I lost credits when I transferred to Embry-Riddle
- ☐ I experienced personal or family problems, including health

- ☐ I had family needs (e.g. caring for children, got married)
- ☐ I took a reduced course load to improve my grade point average
- ☐ I had to retake a course(s)
- ☐ I voluntarily took reduced loads to have time for non-college activities
- ☐ I voluntarily took reduced loads to have time for a student competition team
- ☐ I voluntarily took reduced loads to have time for increased research
- ☐ I experienced academic problems
- ☐ I was misinformed by advisor(s)
- ☐ I didn't seek advisor's help
- ☐ I participated in intercollegiate athletics
- ☐ I performed military service or ROTC
- ☐ Unable to finish on time due to flight requirements
- ☐ Other

If other, please specify: [   ]

Did you complete a Senior Thesis?

○ Yes

○ No

During my Senior Thesis:

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
I was able to conduct interdisciplinary research, employing primary and secondary sources, tied to at least two minors	○	○	○	○	○
I authored a thesis, adhering to professional standards of organization, syntax, and grammar, that presents findings of that interdisciplinary research	○	○	○	○	○
Knowledge and skills gained from completing a Senior Thesis helped me to determine my choice of job/career/graduate study	○	○	○	○	○

Extra-curricular and Co-curricular Activities

My academic experience or co-curricular activity was helpful in **preparation for employment**. If you did not participatein a particular experience or activity, please mark 'not applicable'.

	Not Applicable	Very Much	Quite a Bit	Some	Very Little	Not at All
Internship/Co-ops	○	○	○	○	○	○
Research Experience for Undergraduates (REUs)	○	○	○	○	○	○
On Campus research	○	○	○	○	○	○
Study Abroad/ Exchange programs	○	○	○	○	○	○
Student Employment (off campus)	○	○	○	○	○	○
Student Employment (on campus)	○	○	○	○	○	○
Community Service or volunteer work	○	○	○	○	○	○
SGA/Student Council	○	○	○	○	○	○
Fraternities/sororities	○	○	○	○	○	○
Professional Organizations	○	○	○	○	○	○
Academic Competition Groups	○	○	○	○	○	○
Other on-campus clubs and organizations	○	○	○	○	○	○
Mentoring/tutoring other students	○	○	○	○	○	○
RA/Resident Life programs	○	○	○	○	○	○
Intramural & Recreational Sports	○	○	○	○	○	○
Intercollegiate Athletics	○	○	○	○	○	○

Did you participate in the ROTC program?

○ Yes

○ No

Evaluate the preparation you received at ERAU's ROTC program for:

	Excellent	Good	Average	Poor	Very Poor
Becoming a military officer	○	○	○	○	○
Being a manager/leader	○	○	○	○	○

Were you commissioned through ERAU's program

○ Yes

○ No

Did you complete a Co-op experience?

- ○ Yes
- ○ No

During my Co-op experience:

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
I garnered professional experience appropriate to intended career	○	○	○	○	○
I was called on to use skills, knowledge and techniques I had learned at ERAU	○	○	○	○	○

General Skills

Compared to your FIRST year at ERAU, how would you describe your current skills/knowledge?

	Much Stronger	Stronger	No Change	Weaker	Much Weaker
Apply knowledge of college-level mathematics	○	○	○	○	○
Construct effective written documents for technical and non-technical audiences	○	○	○	○	○
Communicate ideas in non-written forms (oral and visual)	○	○	○	○	○
Conduct and report research in accordance with professional standards	○	○	○	○	○
Recognize the importance of ethical responsibility	○	○	○	○	○
Identify some important results of scientific inquiry and use scientific information in critical thinking and decision-making	○	○	○	○	○
Use technology to communicate ideas	○	○	○	○	○
Apply economic principles to identify and solve problems	○	○	○	○	○
Demonstrate an understanding of the values communicated through the humanities	○	○	○	○	○
Describe some of the historical and contemporary issues that affect societies	○	○	○	○	○
Recognize the complexity of human experience from a variety of perspectives	○	○	○	○	○

To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not at All
Apply knowledge of college-level mathematics	○	○	○	○	○
Construct effective written documents for technical and non-technical audiences	○	○	○	○	○
Communicate ideas in non-written forms (oral and visual)	○	○	○	○	○
Conduct and report research in accordance with professional standards	○	○	○	○	○
Recognize the importance of ethical responsibility	○	○	○	○	○
Identify some important results of scientific inquiry and use scientific information in critical thinking and decision-making	○	○	○	○	○
Use technology to communicate ideas	○	○	○	○	○
Apply economic principles to identify and solve problems	○	○	○	○	○
Demonstrate an understanding of the values communicated through the humanities	○	○	○	○	○
Describe some of the historical and contemporary issues that affect societies	○	○	○	○	○
Recognize the complexity of human experience from a variety of perspectives	○	○	○	○	○

BS Aeronautical Science

To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
An ability to apply knowledge of mathematics, science, and applied sciences	○	○	○	○	○
An ability to analyze and interpret data	○	○	○	○	○
An ability to function on multi-disciplinary teams	○	○	○	○	○
An understanding of professional and ethical responsibility	○	○	○	○	○
An ability to communicate effectively, including both written and verbal communication skills	○	○	○	○	○
A recognition of the need for, and an ability to engage in, life-long learning	○	○	○	○	○
A knowledge of contemporary issues	○	○	○	○	○
An ability to use the techniques, skills, and modern technology necessary for professional practice	○	○	○	○	○
An understanding of the national and international aviation environment	○	○	○	○	○
An ability to apply pertinent knowledge in identifying and solving problems.	○	○	○	○	○

BS Aeronautics
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
Knowledge and understanding of aviation law and the regulatory process	○	○	○	○	○
Understanding and application of management theory/concepts	○	○	○	○	○
Knowledge and understanding of economic principles	○	○	○	○	○
Use of statistical/quantitative techniques to solve problems	○	○	○	○	○
Knowledge and understanding of aviation, technology and operations, concepts, theory and applications	○	○	○	○	○
Knowledge and understanding of the many facets of the aviation industry	○	○	○	○	○
Dealing with integrity issues	○	○	○	○	○
Development of moral character	○	○	○	○	○
Assertiveness in a leadership or subordinate role	○	○	○	○	○
Knowledge and understanding of basic computer skills such as email, word processing, presentations, and spreadsheet software	○	○	○	○	○
Knowledge of scientific principles	○	○	○	○	○
Distinguish themselves as valuable employees in the varied employment areas available	○	○	○	○	○
Identify the influence and importance of the history of aviation	○	○	○	○	○
Illustrate their preparedness in technical writing skills	○	○	○	○	○

BS Aerospace Electronics
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
Knowledge of math and physical science.	○	○	○	○	○
Ability to communicate effectively, including both written and verbal communication skills.	○	○	○	○	○
Ability to function in teams.	○	○	○	○	○
Conduct experiments and interpret experimental data.	○	○	○	○	○
Knowledge of circuits, electronics and instrumentation.	○	○	○	○	○
Identify and solve electrical and electronic circuit problems.	○	○	○	○	○
Use computer aided circuit analysis tools. Knowledge of contemporary issues.	○	○	○	○	○
Understand professional and ethical responsibility.	○	○	○	○	○
A recognition of, and the ability to engage in, lifelong learning.	○	○	○	○	○

BS Aerospace Engineering
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
Engineering responsibilities and methodology	○	○	○	○	○
Professional activity and development	○	○	○	○	○
Technical communication	○	○	○	○	○
General education	○	○	○	○	○
Basic science and mathematics	○	○	○	○	○
Engineering mechanics	○	○	○	○	○
Aerodynamics and aeronautics	○	○	○	○	○
Thermal sciences and propulsion	○	○	○	○	○
Structures and materials	○	○	○	○	○
Electronics	○	○	○	○	○
Astronautics	○	○	○	○	○
Laboratories and data interpretation	○	○	○	○	○
Design	○	○	○	○	○
Support hardware and software	○	○	○	○	○

BS Air Traffic Management
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
Understanding the history, mission, purpose and duty priority of air traffic control	○	○	○	○	○
Understanding the principles of flight and the pilot's environment	○	○	○	○	○
Knowledge of basic communications and air traffic control phraseology	○	○	○	○	○
Knowledge of Instrument Approach Procedure (IAP), Departure Procedure (DP), and Standard Arrival Route (STAR) Charts	○	○	○	○	○
Knowledge of VFR Sectional Charts, VFR Terminal Charts, IFR Enroute Low Altitude Charts, IFR Enroute High Altitude Charts	○	○	○	○	○
Understanding of basic weather fundamentals, weather systems, and hazardous weather	○	○	○	○	○
Knowledge and ability to interpret meteorological reports: METARs, Terminal Area Forecasts, AIRMETs, SIGMETs, and PIREPs	○	○	○	○	○
Knowledge of air traffic control strip marking: enroute and terminal	○	○	○	○	○
Understanding of Radar separation procedures, airspace to be protected speed adjustments, vectoring techniques and traffic coordination applicable to Air traffic Control operations	○	○	○	○	○
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	○	○	○	○	○
Knowledge of Federal Aviation Regulations as they pertain to Air Traffic Control	○	○	○	○	○
Understanding of Air Route Traffic Control Center operations as they pertain to radar separation of aircraft	○	○	○	○	○
Understanding of Air Route Traffic Control Center operations as they pertain to non-radar separation of aircraft	○	○	○	○	○

BS Applied Meteorology
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
Ability to apply knowledge of meteorology, math, and the sciences in general to projects, services and assignments	○	○	○	○	○
Knowledge and ability to utilize techniques, skills, and computer resources for weather data gathering, analysis, interpretation, and product generation	○	○	○	○	○
Ability to function in teams	○	○	○	○	○
An understanding of professional and ethical responsibilities	○	○	○	○	○
Ability to express complex weather concepts in terms that others can understand using both written and verbal communication methods	○	○	○	○	○
A recognition of the need for, and an ability to engage in, life-long learning	○	○	○	○	○
A knowledge of contemporary meteorological problems, issues, and programs for both research and user applications	○	○	○	○	○
Ability to use techniques, skills, and modern technology for meteorological professional practices	○	○	○	○	○
An understanding of the national and international aviation environment which relate to weather	○	○	○	○	○
Ability to apply pertinent meteorological knowledge in identifying and solving problems for both yourself and for customers	○	○	○	○	○

BS Aviation Maintenance Science
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
An ability to apply knowledge of mathematics, science, and applied sciences	○	○	○	○	○
An ability to analyze and interpret data	○	○	○	○	○
An ability to function on multi-disciplinary teams	○	○	○	○	○
An understanding of professional and ethical responsibility	○	○	○	○	○
An ability to communicate effectively, including both written and verbal communication skills	○	○	○	○	○
A recognition of the need for, and an ability to engage in, life-long learning	○	○	○	○	○
A knowledge of contemporary issues	○	○	○	○	○
An ability to use the techniques, skills, and modern technology necessary for professional practice	○	○	○	○	○
An understanding of the national and international aviation environment	○	○	○	○	○
An ability to apply pertinent knowledge in identifying and solving problems.	○	○	○	○	○

BS Business Administration
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
Applying management theory/concepts into a dynamic organizational environment	○	○	○	○	○
Applying accounting and financial information for decision making in a for-profit and not-for-profit entity	○	○	○	○	○
Integrate knowledge of macro- and micro-economics into managerial decision making	○	○	○	○	○
Applying statistical and/or quantitative techniques to problem solving in organizations	○	○	○	○	○
Integrate marketing concepts/practices into executing global market strategies	○	○	○	○	○
Formulate business decisions by incorporating ethical standards and principles	○	○	○	○	○
Access, analyze, and communicate information using multiple means/media	○	○	○	○	○
Understands the nature of business ethics and the role of social responsibility	○	○	○	○	○

BS Civil Engineering
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
An ability to apply knowledge of mathematics, science, and engineering	○	○	○	○	○
An ability to design and conduct experiments, as well as analyze and interpret data	○	○	○	○	○
An ability to design and realize a civil engineering system, component or process to meet desires/needs	○	○	○	○	○
An ability to function on multi-disciplinary teams	○	○	○	○	○
An ability to identify, formulate, and solve engineering problems	○	○	○	○	○
An understanding of professional and ethical responsibility	○	○	○	○	○
An ability to communicate effectively	○	○	○	○	○
An understanding of the impact of engineering solutions in a global and societal context	○	○	○	○	○
A recognition of, and an ability to engage in, life-long learning	○	○	○	○	○
A knowledge of contemporary issues	○	○	○	○	○
An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice	○	○	○	○	○

BS Communication
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
Develop effective news and information gathering skills using interviews, print documents and Internet materials.	○	○	○	○	○
Develop professional writing skills directed at general and specific audiences.	○	○	○	○	○
Develop effective speaking skills appropriate for both small group discussions and large audience presentations.	○	○	○	○	○
Develop teamwork communication skills appropriate to group projects.	○	○	○	○	○
Develop digital skills for delivery of visual designs as well as Internet presentations.	○	○	○	○	○
Understand the development, principles and goals of mass communication media, with emphasis on twenty-first century media.	○	○	○	○	○
Understand specific legal and ethical environments unique to mass media communication.	○	○	○	○	○
Garner knowledge and skills from a minor that enhanced those developed in the major.	○	○	○	○	○
Complete an internship that enhanced knowledge and skills gained in the classroom.	○	○	○	○	○

BS Computational Mathematics
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
Apply knowledge of mathematics to an area of application	○	○	○	○	○
Write a mathematical proof	○	○	○	○	○
Analyze and interpret data	○	○	○	○	○
Model physical phenomena using differential equations	○	○	○	○	○
Use mathematical packages and software to solve scientific problems	○	○	○	○	○
Understand the impact of mathematics in developing technologies	○	○	○	○	○
Function on a multi-disciplinary team	○	○	○	○	○
Orally communicate mathematical ideas	○	○	○	○	○
Use numerical techniques to solve applied problems	○	○	○	○	○
Write computer code to implement a given mathematical algorithm	○	○	○	○	○

BS Computer Engineering
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
An ability to apply knowledge of mathematics, science, and engineering	○	○	○	○	○
An ability to design and conduct experiments, as well as to analyze and interpret data	○	○	○	○	○
An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability	○	○	○	○	○
An ability to function on multi-disciplinary teams	○	○	○	○	○
An ability to identify, formulate, and solve engineering problems	○	○	○	○	○
An understanding of professional and ethical responsibility	○	○	○	○	○
An ability to communicate effectively	○	○	○	○	○
An understanding of the impact of engineering solutions in a global and societal context	○	○	○	○	○
A recognition of the need for, and an ability to engage in life-long learning	○	○	○	○	○
An understanding of contemporary issues in computer engineering	○	○	○	○	○
An ability to use the techniques, skills, and modern engineering tools necessary to engineering practice	○	○	○	○	○
An understanding of real-time embedded computer systems	○	○	○	○	○

BS Computer Science
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
An ability to apply knowledge of computing and mathematics appropriate to the discipline	○	○	○	○	○
An ability to analyze a problem, and identify and define the computing requirements appropriate to its solution	○	○	○	○	○
An ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs	○	○	○	○	○
An ability to function effectively on teams to accomplish a common goal	○	○	○	○	○
An understanding of professional, ethical, legal, security and social issues and responsibilities	○	○	○	○	○
An ability to communicate effectively with a range of audiences	○	○	○	○	○
An ability to analyze the local and global impact of computing on individuals, organizations, and society	○	○	○	○	○
Recognition of the need for and an ability to engage in continuing professional development	○	○	○	○	○
An ability to use current techniques, skills, and tools necessary for computing practice.	○	○	○	○	○
An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling	○	○	○	○	○
An ability to apply design and development principles in the construction of software systems of varying complexity.	○	○	○	○	○

BS Electrical Engineering
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
An ability to apply knowledge of mathematics (including multivariable calculus, differential equations, linear algebra and statistics), science (including chemistry and in-depth calculus-based physics), and engineering.	○	○	○	○	○
An ability to design and conduct experiments, as well as analyze and interpret data.	○	○	○	○	○
An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic., environment, social, political, ethical, health and safety, manufacturability, and sustainability.	○	○	○	○	○
An ability to function on multi-disciplinary teams.	○	○	○	○	○
An ability to identify, formulate, and solve engineering problems.	○	○	○	○	○
An understanding of professional and ethical responsibility	○	○	○	○	○
An ability to communicate effectively.	○	○	○	○	○
The broad education necessary to understand the impact of engineering solutions in a global and societal context.	○	○	○	○	○
A recognition of the need for, and an ability to engage in life-long learning.	○	○	○	○	○
Knowledge of contemporary issues.	○	○	○	○	○

BS Engineering Physics
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
Apply knowledge of mathematics, science, and engineering	○	○	○	○	○
Design and conduct experiments	○	○	○	○	○
Analyze and interpret data	○	○	○	○	○
Design a system, component, or process to meet desired needs	○	○	○	○	○
Function on multi-disciplinary teams	○	○	○	○	○
Identify, formulate, and solve engineering problems	○	○	○	○	○
Understand professional and ethical responsibility	○	○	○	○	○
Communicate effectively	○	○	○	○	○
Understand the impact of engineering solutions in a global and societal context	○	○	○	○	○
Recognize and engage in life-long learning	○	○	○	○	○
Knowledge of contemporary issues	○	○	○	○	○
Use the techniques, skills, and modern engineering tools necessary for engineering practice	○	○	○	○	○
Knowledge of classical mechanics	○	○	○	○	○
Knowledge of engineering electricity and magnetism	○	○	○	○	○
Knowledge of space physics	○	○	○	○	○
Knowledge of quantum physics	○	○	○	○	○
Knowledge of space systems engineering and design	○	○	○	○	○
Knowledge of electro-optical engineering	○	○	○	○	○
Knowledge of microcomputers and electronic instrumentation	○	○	○	○	○

BS Homeland Security
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
Capability for students to work collaboratively and effectively on teams.	○	○	○	○	○
Capability to deliver professional presentations and briefs.	○	○	○	○	○
Demonstrate the ability to recognize transnational and global homeland security or defense issues, strategies and operations.	○	○	○	○	○
Demonstrate the ability to design, conduct and evaluate exercises applicable to the disciplines of homeland security or defense.	○	○	○	○	○
Demonstrate knowledge of contemporary or emergent threats, challenges or issues including natural, manmade and technological hazards.	○	○	○	○	○
Demonstrate the ability to identify, describe and critically evaluate applicable homeland security or defense technologies.	○	○	○	○	○
Demonstrate an understanding of terrorism, its origins, ideologies and goals.	○	○	○	○	○
Demonstrate an understanding of infrastructures critical to the US and how best to protect them.	○	○	○	○	○
Provide the ability for students to understand and apply risk management tools to homeland security issues.	○	○	○	○	○
Demonstrate the ability to analyze environmental sources that destabilize regions and to characterize their relationship to US national security.	○	○	○	○	○

BS Human Factors Psychology
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
Knowledge of human psycho physiological, cognitive, and perceptual functioning	○	○	○	○	○
Knowledge of human factors involving analytic methods, models, and human capabilities and limitations	○	○	○	○	○
Knowledge of basic statistical procedures, including analysis of variance	○	○	○	○	○
Research methods and design skills	○	○	○	○	○
Effective oral and written communication skills	○	○	○	○	○
Ability to read, comprehend, and analyze results of published empirical studies in the human factors field	○	○	○	○	○
Understanding of the application of human factors and psychological knowledge in aviation and other applied domains	○	○	○	○	○

BS Aerospace Studies/Interdisciplinary Studies
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
Understand basic concepts in several areas of study, such as aeronautical science, business administration, and social sciences.	○	○	○	○	○
Understand the complex history and culture of one or more world regions.	○	○	○	○	○
Develop vocabulary and writing skills that apply to specific communication contexts.	○	○	○	○	○
Appreciate and understand the complexity and magnitude of human production in literature, the visual arts, architecture, religion, and myth.	○	○	○	○	○
Develop skills in analytical interpretations of works in the humanities.	○	○	○	○	○
Appreciate and understand human moral, religious, or philosophical thinking and belief systems.	○	○	○	○	○
Garner skills and knowledge from intersecting minors to form a coherent body of knowledge.	○	○	○	○	○
Conduct analytical research that intersects with at least two areas of study or complete a co-operative experience that enhanced knowledge and skills gained in the classroom.	○	○	○	○	○

BS Mechanical Engineering
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
An ability to apply knowledge of mathematics, science, and engineering	○	○	○	○	○
An ability to design and conduct experiments, as well as analyze and interpret data	○	○	○	○	○
An ability to design and realize a thermal or mechanical system, component or process to meet desires needs	○	○	○	○	○
An ability to function on multi-disciplinary teams	○	○	○	○	○
An ability to identify, formulate, and solve engineering problems	○	○	○	○	○
An understanding of professional and ethical responsibility	○	○	○	○	○
An ability to communicate effectively	○	○	○	○	○
An understanding of the impact of engineering solutions in a global and societal context	○	○	○	○	○
A recognition of, and an ability to engage in, life-long learning	○	○	○	○	○
A knowledge of contemporary issues	○	○	○	○	○
An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice	○	○	○	○	○

BS Safety Science
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
Identify, evaluate and control health and safety hazards in the workplace	○	○	○	○	○
Demonstrate competency in the principles of fire prevention, suppression, and life safety	○	○	○	○	○
Demonstrate competency in the fundamentals of industrial hygiene and toxicology	○	○	○	○	○
Apply systems safety analysis techniques to identify, prioritize, and control hazards in human-machine systems	○	○	○	○	○
Demonstrate knowledge of aviation safety reporting systems and safety data sources	○	○	○	○	○
Deal with the threat of violence and other international harmful acts in the workplace	○	○	○	○	○
Develop, test, and maintain an airport emergency plan, including Aircraft Rescue and Fire Fighting	○	○	○	○	○
Develop an understanding of federal human resources statutes and legal torts and contracts as it relates to safety/risk management in aviation law	○	○	○	○	○
Develop and maintain a comprehensive workplace safety program	○	○	○	○	○
Demonstrate competency in applying OSHA and EPA regulations to the workplace	○	○	○	○	○
Apply DOT regulations to the application of different classes of hazardous materials	○	○	○	○	○
Discuss the federal regulations pertaining to aircraft operations, rulemaking and certification	○	○	○	○	○
Evaluate an airport's compliance with federal regulations	○	○	○	○	○
Explain the application of workers' compensation practices	○	○	○	○	○
Initiate, develop, conduct and manage aircraft accident investigations in accordance with all the requirements of the NTSB FAA and other relevant regulatory bodies	○	○	○	○	○
Apply SHELL and Reason's model to understanding accident causation and prevention	○	○	○	○	○
Evaluate the role of human factors issues (fatigue, body rythms, vision, etc.) as they relate to human performance and accident causation and prevention	○	○	○	○	○
Apply principles of crash survival to the design and outfitting of aircraft	○	○	○	○	○
Complete a "Crash Survival Analysis" rating for various fixed-wing rotor aircraft	○	○	○	○	○
Demonstrate the ability to work in teams	○	○	○	○	○
Write and formulate a technical report	○	○	○	○	○
Possess professional presentation skills	○	○	○	○	○

BS Software Engineering
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
An ability to apply knowledge of mathematics, science, and engineering	○	○	○	○	○
An ability to design and conduct experiments, and an ability to analyze the data	○	○	○	○	○
An ability to design and implement a software system, component, or process to meet desired needs	○	○	○	○	○
An ability to function on multi-disciplinary teams	○	○	○	○	○
An ability to identify, formulate, and solve engineering problems	○	○	○	○	○
An understanding of professional and ethical responsibility	○	○	○	○	○
An ability to communicate effectively	○	○	○	○	○
An understanding of the impact of engineering solutions in a global and societal context	○	○	○	○	○
A recognition of the need for, and an ability to engage in life-long learning	○	○	○	○	○
An understanding of contemporary issues in software engineering	○	○	○	○	○
An ability to use the techniques, skills, and modern engineering tools necessary to engineering practice	○	○	○	○	○
An understanding of real-time, safety-critical, embedded computer syst	○	○	○	○	○

BS Space Physics
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
Apply knowledge of mathematics and science	○	○	○	○	○
Design and conduct experiments	○	○	○	○	○
Analyze and interpret data	○	○	○	○	○
Identify, formulate, and solve scientific problems	○	○	○	○	○
Understand professional and ethical responsibility	○	○	○	○	○
Communicate effectively	○	○	○	○	○
Recognize and engage in life-long learning	○	○	○	○	○
Knowledge of contemporary issues	○	○	○	○	○
Knowledge of classical mechanics	○	○	○	○	○
Knowledge of electricity and magnetism	○	○	○	○	○
Knowledge of space physics	○	○	○	○	○
Knowledge of quantum mechanics	○	○	○	○	○
Knowledge of planetary science	○	○	○	○	○
Knowledge of astrophysics	○	○	○	○	○

	Very Much	Quite A Bit	Some	Very Little	Not At All

M Aerospace Engineering/MS Aerospace Engineering
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
Ability to analyze and solve engineering problems	○	○	○	○	○
In one or more of the following subject areas: aerodynamics, aerospace materials, computational methods, controls, propulsion and structures	○	○	○	○	○
Preparation for a career in the aerospace industry	○	○	○	○	○
Preparation for further study	○	○	○	○	○

MS Engineering Physics
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
Ability to identify, formulate and solve space science and engineering problems	○	○	○	○	○
Understanding and ability to apply advanced numerical methods	○	○	○	○	○
Understanding and ability to apply advanced space physics concepts	○	○	○	○	○
Understanding and ability to apply experimental methods in space science	○	○	○	○	○
Knowledge of advanced spacecraft dynamics and control	○	○	○	○	○
Knowledge of spacecraft power and thermal design	○	○	○	○	○

MS Human Factors and Systems (Human Factors Engr)
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
Ability to identify human factors problems in operational environments	○	○	○	○	○
Knowledge of general systems concepts	○	○	○	○	○
Ability to apply the knowledge of human perception, cognition, and memory to operational and design problems	○	○	○	○	○
Understanding and ability to apply statistical and quantitative techniques	○	○	○	○	○
Understanding and ability to apply the strategies involved in planning, implementing, and controlling a research plan	○	○	○	○	○

MS Human Factors and Systems (Systems Engr)
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
Knowledge of general systems concepts	○	○	○	○	○
Ability to apply the knowledge of reliability, maintainability, logistics, safety , and producibility to operational and design problems	○	○	○	○	○
Ability to identify human factors problems in operational environments	○	○	○	○	○
Ability to balance operational, behavioral , economic, and logistical factors in operations and design	○	○	○	○	○
Understanding and ability to apply statistical and quantitative techniques	○	○	○	○	○
Understanding and ability to apply the strategies involved in planning, implementing, and controlling a research plan	○	○	○	○	○

M Software Engineering
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
Ability to apply software engineering processes appropriate to the analysis or development of highly reliable software systems.	○	○	○	○	○
Ability to use software engineering methods, techniques, and tools as they relate to the following areas: analysis and specification of requirements, architecture, design, construction, and verification and validation.	○	○	○	○	○
Ability to communicate effectively and to perform successfully as part of a team.	○	○	○	○	○
Ability to use software engineering methods, techniques, and tools as they relate to the management of software development	○	○	○	○	○

Did you have a minor?

○ Yes

○ No

What were your minors?

☐ Air Traffic Control

☐ Astronomy

☐ Aviation Safety

☐ Business Administration

☐ Communication

☐ Computer Science

☐ Flight

☐ Humanities

☐ International Relations

☐ Physics

☐ Space Studies

☐ Other (Please specify below)

If other, please specify:

Minor in Air Traffic Control
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
Understanding the history, mission, purpose and duty priority of air traffic control	○	○	○	○	○
Knowledge of Instrument Approach Procedure (IAP), Departure Procedure (DP), and Standard Arrival Route (STAR) Charts	○	○	○	○	○
Understanding of Radar separation procedures, airspace to be protected, speed adjustments, vectoring techniques and traffic coordination applicable to Air Traffic Control operations	○	○	○	○	○
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	○	○	○	○	○
Knowledge of Federal Aviation Regulations as they pertain to Air Traffic Control	○	○	○	○	○
Understanding of Air Route Traffic Control Center operations as they pertain to radar separation of aircraft	○	○	○	○	○

Minor in Astronomy
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
Knowledge of astronomy	○	○	○	○	○
Enhanced understanding of major, and its place in society	○	○	○	○	○
Develop general technical skills	○	○	○	○	○
Increased wonder and awe of the universe	○	○	○	○	○

Minor in Business Administration
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
Applying management theory/concepts into a dynamic organizational environment	○	○	○	○	○
Applying accounting and financial information for decision making in a for-profit and not-for-profit entity	○	○	○	○	○
Integrate knowledge of macro- and micro-economics into managerial decision making	○	○	○	○	○
Applying statistical and/or quantitative techniques to problem solving in organizations	○	○	○	○	○
Integrate marketing concepts/practices into executing global market strategies	○	○	○	○	○
Formulate business decisions by incorporating ethical standards and principles	○	○	○	○	○
Access, analyze, and communicate information using multiple means/media	○	○	○	○	○
Understands the nature of business ethics and the role of social responsibility	○	○	○	○	○

Minor in Communication
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
Develop effective news and information gathering skills using interviews, print documents and Internet materials	○	○	○	○	○
Develop professional-quality writing skills directed at general and specific audiences	○	○	○	○	○
Develop vocabulary and writing skills that apply to particular communication contexts	○	○	○	○	○
Develop teamwork communication skills appropriate to group projects	○	○	○	○	○

Minor in Flight
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
Understanding aerodynamic performance of aircraft powered by reciprocating and turbine engines	○	○	○	○	○
Instrument flight skill	○	○	○	○	○
Multi-engine/high performance aircraft operations	○	○	○	○	○
Knowledge of Federal Aviation Regulations	○	○	○	○	○
Ground/Flight training aptitude	○	○	○	○	○

Minor in Humanities
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
Develop a broad knowledge of and appreciation for the complexity and magnitude of human productions in literature, the visual arts, architecture, religion, and myth	○	○	○	○	○
Develop the ability to analyze and interpret works in the humanities	○	○	○	○	○
Develop an understanding of the relationship between humans and nature and the human and divine, as relayed in cultural texts	○	○	○	○	○
Develop knowledge of and appreciation for aesthetics and moral values across cultures and historical periods,	○	○	○	○	○
Develop an understanding of the complexities of ethical decision-making, and to express your own responses to other thinkers	○	○	○	○	○
Develop the ability to imagine situations from someone else's point of view, and to understand different notions of a life well-lived	○	○	○	○	○

Minor in International Relations
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
Understand the impact and role of globalization in world politics	○	○	○	○	○
Develop a knowledge and understanding of the history and culture of one or more world regions	○	○	○	○	○
Understand the complex interactions between the United States and one or more world regions	○	○	○	○	○
Develop critical thinking and information gathering skills to conduct research into history and international relations	○	○	○	○	○

Minor in Physics
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
Knowledge of fundamental physics	○	○	○	○	○
Analyze and evaluate scientific claims in the popular media	○	○	○	○	○
Understanding of strengths and limitations of mathematical analysis	○	○	○	○	○
Develop critical thinking skills	○	○	○	○	○

What do we need to do to make the degree more beneficial in a job search?

What courses, projects, or experiences in your degree program have been the most valuable to you?

What weaknesses do you see in your degree program?

Additional comments about your time at ERAU or needs as an alumnus:

BS Aeronautical Science
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
An ability to apply knowledge of mathematics, science, and applied sciences	○	○	○	○	○
An ability to analyze and interpret data	○	○	○	○	○
An ability to function on multi-disciplinary teams	○	○	○	○	○
An understanding of professional and ethical responsibility	○	○	○	○	○
An ability to communicate effectively, including both written and verbal communication skills	○	○	○	○	○
A recognition of the need for, and an ability to engage in, life-long learning	○	○	○	○	○
A knowledge of contemporary issues	○	○	○	○	○
An ability to use the techniques, skills, and modern technology necessary for professional practice	○	○	○	○	○
An understanding of the national and international aviation environment	○	○	○	○	○
An ability to apply pertinent knowledge in identifying and solving problems.	○	○	○	○	○

BS Aeronautics
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
Knowledge and understanding of aviation law and the regulatory process	○	○	○	○	○
Understanding and application of management theory/concepts	○	○	○	○	○
Knowledge and understanding of economic principles	○	○	○	○	○
Use of statistical/quantitative techniques to solve problems	○	○	○	○	○
Knowledge and understanding of aviation, technology and operations, concepts, theory and applications	○	○	○	○	○
Knowledge and understanding of the many facets of the aviation industry	○	○	○	○	○
Dealing with integrity issues	○	○	○	○	○
Development of moral character	○	○	○	○	○
Assertiveness in a leadership or subordinate role	○	○	○	○	○
Knowledge and understanding of basic computer skills such as email, word processing, presentations, and spreadsheet software	○	○	○	○	○
Knowledge of scientific principles	○	○	○	○	○
Distinguish themselves as valuable employees in the varied employment areas available	○	○	○	○	○
Identify the influence and importance of the history of aviation	○	○	○	○	○
Illustrate their preparedness in technical writing skills	○	○	○	○	○

BS Aerospace Electronics
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
Knowledge of math and physical science.	○	○	○	○	○
Ability to communicate effectively, including both written and verbal communication skills.	○	○	○	○	○
Ability to function in teams.	○	○	○	○	○
Conduct experiments and interpret experimental data.	○	○	○	○	○
Knowledge of circuits, electronics and instrumentation.	○	○	○	○	○
Identify and solve electrical and electronic circuit problems.	○	○	○	○	○
Use computer aided circuit analysis tools. Knowledge of contemporary issues.	○	○	○	○	○
Understand professional and ethical responsibility.	○	○	○	○	○
A recognition of, and the ability to engage in, lifelong learning.	○	○	○	○	○

BS Aerospace Engineering
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
Engineering responsibilities and methodology	○	○	○	○	○
Professional activity and development	○	○	○	○	○
Technical communication	○	○	○	○	○
General education	○	○	○	○	○
Basic science and mathematics	○	○	○	○	○
Engineering mechanics	○	○	○	○	○
Aerodynamics and aeronautics	○	○	○	○	○
Thermal sciences and propulsion	○	○	○	○	○
Structures and materials	○	○	○	○	○
Electronics	○	○	○	○	○
Astronautics	○	○	○	○	○
Laboratories and data interpretation	○	○	○	○	○
Design	○	○	○	○	○
Support hardware and software	○	○	○	○	○

BS Air Traffic Management
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
Understanding the history, mission, purpose and duty priority of air traffic control	○	○	○	○	○
Understanding the principles of flight and the pilot's environment	○	○	○	○	○
Knowledge of basic communications and air traffic control phraseology	○	○	○	○	○
Knowledge of Instrument Approach Procedure (IAP), Departure Procedure (DP), and Standard Arrival Route (STAR) Charts	○	○	○	○	○
Knowledge of VFR Sectional Charts, VFR Terminal Charts, IFR Enroute Low Altitude Charts, IFR Enroute High Altitude Charts	○	○	○	○	○
Understanding of basic weather fundamentals, weather systems, and hazardous weather	○	○	○	○	○
Knowledge and ability to interpret meteorological reports: METARs, Terminal Area Forecasts, AIRMETs, SIGMETs, and PIREPs	○	○	○	○	○
Knowledge of air traffic control strip marking: enroute and terminal	○	○	○	○	○
Understanding of Radar separation procedures, airspace to be protected speed adjustments, vectoring techniques and traffic coordination applicable to Air traffic Control operations	○	○	○	○	○
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	○	○	○	○	○
Knowledge of Federal Aviation Regulations as they pertain to Air Traffic Control	○	○	○	○	○
Understanding of Air Route Traffic Control Center operations as they pertain to radar separation of aircraft	○	○	○	○	○
Understanding of Air Route Traffic Control Center operations as they pertain to non-radar separation of aircraft	○	○	○	○	○

BS Applied Meteorology
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
Ability to apply knowledge of meteorology, math, and the sciences in general to projects, services and assignments	○	○	○	○	○
Knowledge and ability to utilize techniques, skills, and computer resources for weather data gathering, analysis, interpretation, and product generation	○	○	○	○	○
Ability to function in teams	○	○	○	○	○
An understanding of professional and ethical responsibilities	○	○	○	○	○
Ability to express complex weather concepts in terms that others can understand using both written and verbal communication methods	○	○	○	○	○
A recognition of the need for, and an ability to engage in, life-long learning	○	○	○	○	○
A knowledge of contemporary meteorological problems, issues, and programs for both research and user applications	○	○	○	○	○
Ability to use techniques, skills, and modern technology for meteorological professional practices	○	○	○	○	○
An understanding of the national and international aviation environment which relate to weather	○	○	○	○	○
Ability to apply pertinent meteorological knowledge in identifying and solving problems for both yourself and for customers	○	○	○	○	○

BS Aviation Maintenance Science
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
An ability to apply knowledge of mathematics, science, and applied sciences	○	○	○	○	○
An ability to analyze and interpret data	○	○	○	○	○
An ability to function on multi-disciplinary teams	○	○	○	○	○
An understanding of professional and ethical responsibility	○	○	○	○	○
An ability to communicate effectively, including both written and verbal communication skills	○	○	○	○	○
A recognition of the need for, and an ability to engage in, life-long learning	○	○	○	○	○
A knowledge of contemporary issues	○	○	○	○	○
An ability to use the techniques, skills, and modern technology necessary for professional practice	○	○	○	○	○
An understanding of the national and international aviation environment	○	○	○	○	○
An ability to apply pertinent knowledge in identifying and solving problems.	○	○	○	○	○

BS Business Administration
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
Applying management theory/concepts into a dynamic organizational environment	○	○	○	○	○
Applying accounting and financial information for decision making in a for-profit and not-for-profit entity	○	○	○	○	○
Integrate knowledge of macro- and micro-economics into managerial decision making	○	○	○	○	○
Applying statistical and/or quantitative techniques to problem solving in organizations	○	○	○	○	○
Integrate marketing concepts/practices into executing global market strategies	○	○	○	○	○
Formulate business decisions by incorporating ethical standards and principles	○	○	○	○	○
Access, analyze, and communicate information using multiple means/media	○	○	○	○	○
Understands the nature of business ethics and the role of social responsibility	○	○	○	○	○

BS Civil Engineering
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
An ability to apply knowledge of mathematics, science, and engineering	○	○	○	○	○
An ability to design and conduct experiments, as well as analyze and interpret data	○	○	○	○	○
An ability to design and realize a civil engineering system, component or process to meet desires/needs	○	○	○	○	○
An ability to function on multi-disciplinary teams	○	○	○	○	○
An ability to identify, formulate, and solve engineering problems	○	○	○	○	○
An understanding of professional and ethical responsibility	○	○	○	○	○
An ability to communicate effectively	○	○	○	○	○
An understanding of the impact of engineering solutions in a global and societal context	○	○	○	○	○
A recognition of, and an ability to engage in, life-long learning	○	○	○	○	○
A knowledge of contemporary issues	○	○	○	○	○
An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice	○	○	○	○	○

BS Communication
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
Develop effective news and information gathering skills using interviews, print documents and Internet materials.	○	○	○	○	○
Develop professional writing skills directed at general and specific audiences.	○	○	○	○	○
Develop effective speaking skills appropriate for both small group discussions and large audience presentations.	○	○	○	○	○
Develop teamwork communication skills appropriate to group projects.	○	○	○	○	○
Develop digital skills for delivery of visual designs as well as Internet presentations.	○	○	○	○	○
Understand the development, principles and goals of mass communication media, with emphasis on twenty-first century media.	○	○	○	○	○
Understand specific legal and ethical environments unique to mass media communication.	○	○	○	○	○
Garner knowledge and skills from a minor that enhanced those developed in the major.	○	○	○	○	○
Complete an internship that enhanced knowledge and skills gained in the classroom.	○	○	○	○	○

BS Computational Mathematics
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
Apply knowledge of mathematics to an area of application	○	○	○	○	○
Write a mathematical proof	○	○	○	○	○
Analyze and interpret data	○	○	○	○	○
Model physical phenomena using differential equations	○	○	○	○	○
Use mathematical packages and software to solve scientific problems	○	○	○	○	○
Understand the impact of mathematics in developing technologies	○	○	○	○	○
Function on a multi-disciplinary team	○	○	○	○	○
Orally communicate mathematical ideas	○	○	○	○	○
Use numerical techniques to solve applied problems	○	○	○	○	○
Write computer code to implement a given mathematical algorithm	○	○	○	○	○

BS Computer Engineering
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
An ability to apply knowledge of mathematics, science, and engineering	○	○	○	○	○
An ability to design and conduct experiments, as well as to analyze and interpret data	○	○	○	○	○
An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability	○	○	○	○	○
An ability to function on multi-disciplinary teams	○	○	○	○	○
An ability to identify, formulate, and solve engineering problems	○	○	○	○	○
An understanding of professional and ethical responsibility	○	○	○	○	○
An ability to communicate effectively	○	○	○	○	○
An understanding of the impact of engineering solutions in a global and societal context	○	○	○	○	○
A recognition of the need for, and an ability to engage in life-long learning	○	○	○	○	○
An understanding of contemporary issues in computer engineering	○	○	○	○	○
An ability to use the techniques, skills, and modern engineering tools necessary to engineering practice	○	○	○	○	○
An understanding of real-time embedded computer systems	○	○	○	○	○

BS Computer Science
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
An ability to apply knowledge of computing and mathematics appropriate to the discipline	○	○	○	○	○
An ability to analyze a problem, and identify and define the computing requirements appropriate to its solution	○	○	○	○	○
An ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs	○	○	○	○	○
An ability to function effectively on teams to accomplish a common goal	○	○	○	○	○
An understanding of professional, ethical, legal, security and social issues and responsibilities	○	○	○	○	○
An ability to communicate effectively with a range of audiences	○	○	○	○	○
An ability to analyze the local and global impact of computing on individuals, organizations, and society	○	○	○	○	○
Recognition of the need for and an ability to engage in continuing professional development	○	○	○	○	○
An ability to use current techniques, skills, and tools necessary for computing practice.	○	○	○	○	○
An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling	○	○	○	○	○
An ability to apply design and development principles in the construction of software systems of varying complexity.	○	○	○	○	○

BS Electrical Engineering
To what extent has your experience at ERAU contributed to your development of the folloBwing skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
An ability to apply knowledge of mathematics (including multivariable calculus, differential equations, linear algebra and statistics), science (including chemistry and in-depth calculus-based physics), and engineering.	○	○	○	○	○
An ability to design and conduct experiments, as well as analyze and interpret data.	○	○	○	○	○
An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic., environment, social, political, ethical, health and safety, manufacturability, and sustainability.	○	○	○	○	○
An ability to function on multi-disciplinary teams.	○	○	○	○	○
An ability to identify, formulate, and solve engineering problems.	○	○	○	○	○
An understanding of professional and ethical responsibility	○	○	○	○	○
An ability to communicate effectively.	○	○	○	○	○
The broad education necessary to understand the impact of engineering solutions in a global and societal context.	○	○	○	○	○
A recognition of the need for, and an ability to engage in life-long learning.	○	○	○	○	○
Knowledge of contemporary issues.	○	○	○	○	○
An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice	○	○	○	○	○

BS Engineering Physics
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
Apply knowledge of mathematics, science, and engineering	○	○	○	○	○
Design and conduct experiments	○	○	○	○	○
Analyze and interpret data	○	○	○	○	○
Design a system, component, or process to meet desired needs	○	○	○	○	○
Function on multi-disciplinary teams	○	○	○	○	○
Identify, formulate, and solve engineering problems	○	○	○	○	○
Understand professional and ethical responsibility	○	○	○	○	○
Communicate effectively	○	○	○	○	○
Understand the impact of engineering solutions in a global and societal context	○	○	○	○	○
Recognize and engage in life-long learning	○	○	○	○	○
Knowledge of contemporary issues	○	○	○	○	○
Use the techniques, skills, and modern engineering tools necessary for engineering practice	○	○	○	○	○
Knowledge of classical mechanics	○	○	○	○	○
Knowledge of engineering electricity and magnetism	○	○	○	○	○
Knowledge of space physics	○	○	○	○	○
Knowledge of quantum physics	○	○	○	○	○
Knowledge of space systems engineering and design	○	○	○	○	○
Knowledge of electro-optical engineering	○	○	○	○	○
Knowledge of microcomputers and electronic instrumentation	○	○	○	○	○

BS Homeland Security
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
Capability for students to work collaboratively and effectively on teams.	○	○	○	○	○
Capability to deliver professional presentations and briefs.	○	○	○	○	○
Demonstrate the ability to recognize transnational and global homeland security or defense issues, strategies and operations.	○	○	○	○	○
Demonstrate the ability to design, conduct and evaluate exercises applicable to the disciplines of homeland security or defense.	○	○	○	○	○
Demonstrate knowledge of contemporary or emergent threats, challenges or issues including natural, manmade and technological hazards.	○	○	○	○	○
Demonstrate the ability to identify, describe and critically evaluate applicable homeland security or defense technologies.	○	○	○	○	○
Demonstrate an understanding of terrorism, its origins, ideologies and goals.	○	○	○	○	○
Demonstrate an understanding of infrastructures critical to the US and how best to protect them.	○	○	○	○	○
Provide the ability for students to understand and apply risk management tools to homeland security issues.	○	○	○	○	○
Demonstrate the ability to analyze environmental sources that destabilize regions and to characterize their relationship to US national security.	○	○	○	○	○

BS Human Factors Psychology
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
Knowledge of human psycho physiological, cognitive, and perceptual functioning	○	○	○	○	○
Knowledge of human factors involving analytic methods, models, and human capabilities and limitations	○	○	○	○	○
Knowledge of basic statistical procedures, including analysis of variance	○	○	○	○	○
Research methods and design skills	○	○	○	○	○
Effective oral and written communication skills	○	○	○	○	○
Ability to read, comprehend, and analyze results of published empirical studies in the human factors field	○	○	○	○	○
Understanding of the application of human factors and psychological knowledge in aviation and other applied domains	○	○	○	○	○

BS Aerospace Studies/Interdisciplinary Studies
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
Understand basic concepts in several areas of study, such as aeronautical science, business administration, and social sciences.	○	○	○	○	○
Understand the complex history and culture of one or more world regions.	○	○	○	○	○
Develop vocabulary and writing skills that apply to specific communication contexts.	○	○	○	○	○
Appreciate and understand the complexity and magnitude of human production in literature, the visual arts, architecture, religion, and myth.	○	○	○	○	○
Develop skills in analytical interpretations of works in the humanities.	○	○	○	○	○
Appreciate and understand human moral, religious, or philosophical thinking and belief systems.	○	○	○	○	○
Garner skills and knowledge from intersecting minors to form a coherent body of knowledge.	○	○	○	○	○
Conduct analytical research that intersects with at least two areas of study or complete a co-operative experience that enhanced knowledge and skills gained in the classroom.	○	○	○	○	○

BS Mechanical Engineering
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
An ability to apply knowledge of mathematics, science, and engineering	○	○	○	○	○
An ability to design and conduct experiments, as well as analyze and interpret data	○	○	○	○	○
An ability to design and realize a thermal or mechanical system, component or process to meet desires needs	○	○	○	○	○
An ability to function on multi-disciplinary teams	○	○	○	○	○
An ability to identify, formulate, and solve engineering problems	○	○	○	○	○
An understanding of professional and ethical responsibility	○	○	○	○	○
An ability to communicate effectively	○	○	○	○	○
An understanding of the impact of engineering solutions in a global and societal context	○	○	○	○	○
A recognition of, and an ability to engage in, life-long learning	○	○	○	○	○
A knowledge of contemporary issues	○	○	○	○	○
An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice	○	○	○	○	○

BS Safety Science
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
Identify, evaluate and control health and safety hazards in the workplace	○	○	○	○	○
Demonstrate competency in the principles of fire prevention, suppression, and life safety	○	○	○	○	○
Demonstrate competency in the fundamentals of industrial hygiene and toxicology	○	○	○	○	○
Apply systems safety analysis techniques to identify, prioritize, and control hazards in human-machine systems	○	○	○	○	○
Demonstrate knowledge of aviation safety reporting systems and safety data sources	○	○	○	○	○
Deal with the threat of violence and other international harmful acts in the workplace	○	○	○	○	○
Develop, test, and maintain an airport emergency plan, including Aircraft Rescue and Fire Fighting	○	○	○	○	○
Develop an understanding of federal human resources statutes and legal torts and contracts as it relates to safety/risk management in aviation law	○	○	○	○	○
Develop and maintain a comprehensive workplace safety program	○	○	○	○	○
Demonstrate competency in applying OSHA and EPA regulations to the workplace	○	○	○	○	○
Apply DOT regulations to the application of different classes of hazardous materials	○	○	○	○	○
Discuss the federal regulations pertaining to aircraft operations, rulemaking and certification	○	○	○	○	○
Evaluate an airport's compliance with federal regulations	○	○	○	○	○
Explain the application of workers' compensation practices	○	○	○	○	○
Initiate, develop, conduct and manage aircraft accident investigations in accordance with all the requirements of the NTSB FAA and other relevant regulatory bodies	○	○	○	○	○
Apply SHELL and Reason's model to understanding accident causation and prevention	○	○	○	○	○
Evaluate the role of human factors issues (fatigue, body rythms, vision, etc.) as they relate to human performance and accident causation and prevention	○	○	○	○	○
Apply principles of crash survival to the design and outfitting of aircraft	○	○	○	○	○
Complete a "Crash Survival Analysis" rating for various fixed-wing rotor aircraft	○	○	○	○	○
Demonstrate the ability to work in teams	○	○	○	○	○
Write and formulate a technical report	○	○	○	○	○
Possess professional presentation skills	○	○	○	○	○

BS Software Engineering
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
An ability to apply knowledge of mathematics, science, and engineering	○	○	○	○	○
An ability to design and conduct experiments, and an ability to analyze the data	○	○	○	○	○
An ability to design and implement a software system, component, or process to meet desired needs	○	○	○	○	○
An ability to function on multi-disciplinary teams	○	○	○	○	○
An ability to identify, formulate, and solve engineering problems	○	○	○	○	○
An understanding of professional and ethical responsibility	○	○	○	○	○
An ability to communicate effectively	○	○	○	○	○
An understanding of the impact of engineering solutions in a global and societal context	○	○	○	○	○
A recognition of the need for, and an ability to engage in life-long learning	○	○	○	○	○
An understanding of contemporary issues in software engineering	○	○	○	○	○
An ability to use the techniques, skills, and modern engineering tools necessary to engineering practice	○	○	○	○	○
An understanding of real-time, safety-critical, embedded computer systems	○	○	○	○	○

BS Space Physics
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
Apply knowledge of mathematics and science	○	○	○	○	○
Design and conduct experiments	○	○	○	○	○
Analyze and interpret data	○	○	○	○	○
Identify, formulate, and solve scientific problems	○	○	○	○	○
Understand professional and ethical responsibility	○	○	○	○	○
Communicate effectively	○	○	○	○	○
Recognize and engage in life-long learning	○	○	○	○	○
Knowledge of contemporary issues	○	○	○	○	○
Knowledge of classical mechanics	○	○	○	○	○
Knowledge of electricity and magnetism	○	○	○	○	○
Knowledge of space physics	○	○	○	○	○
Knowledge of quantum mechanics	○	○	○	○	○
Knowledge of planetary science	○	○	○	○	○
Knowledge of astrophysics	○	○	○	○	○

M Aerospace Engineering/MS Aerospace Engineering
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
Ability to analyze and solve engineering problems	○	○	○	○	○
In one or more of the following subject areas: aerodynamics, aerospace materials, computational methods, controls, propulsion and structures	○	○	○	○	○
Preparation for a career in the aerospace industry	○	○	○	○	○
Preparation for further study	○	○	○	○	○

MS Electrical/Computer Engineering
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
Ability to apply fundamental computer engineering and electrical engineering professional practices to analysis, design, and implementation of electrical and/or computer systems.	○	○	○	○	○
Ability to apply knowledge of advanced topics in electrical engineering or computer engineering, as appropriate to chosen concentration.	○	○	○	○	○
Ability to communicate effectively and to perform successfully as part of a team.	○	○	○	○	○
Ability to complete and document either a master's capstone project or a master's thesis, as appropriate to choice of the professional or research option	○	○	○	○	○

M Software Engineering
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
Ability to apply software engineering processes appropriate to the analysis or development of highly reliable software systems.	○	○	○	○	○
Ability to use software engineering methods, techniques, and tools as they relate to the following areas: analysis and specification of requirements, architecture, design, construction, and verification and validation.	○	○	○	○	○
Ability to communicate effectively and to perform successfully as part of a team.	○	○	○	○	○
Ability to use software engineering methods, techniques, and tools as they relate to the management of software development	○	○	○	○	○

MS Aeronautics
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Not Applicable	Very Much	Quite A Bit	Some	Very Little	Not At All
Work collaboratively as a team with individual accountability and team building skills	○	○	○	○	○	○
Demonstrate problem-solving skills using scientific research methods	○	○	○	○	○	○
Demonstrate graduate level writing ability using APA format	○	○	○	○	○	○
Demonstrate professional communication and oral presentation skills using appropriate media	○	○	○	○	○	○
Demonstrate the ability to evaluate current industry issues or problems using critical thinking skills.	○	○	○	○	○	○
Demonstrate the use of technology appropriate to industry requirements.	○	○	○	○	○	○
Apply an ethical and professional framework to decision making.	○	○	○	○	○	○

M Business Administration
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
Apply key organizational concepts of group dynamics, leadership, conflict resolution, ethics and motivation in implementing organizational goals	○	○	○	○	○
Apply the concepts and strategies involved in planning, implementing and controlling, a marketing plan with special emphasis on aviation/aerospace organizations	○	○	○	○	○
Analyze financial statements and utilize corporate finance concepts and techniques in decision making within organizations	○	○	○	○	○
Access, analyze, and communicate information using multiple means/media	○	○	○	○	○
Apply statistical and quantitative analysis to solve business problems	○	○	○	○	○
Integrate knowledge of macro- and micro-economic concepts to support aviation/aerospace operations	○	○	○	○	○
Formulate and execute strategies and policies required to achieve organizational goals in the competitive environment of airlines, airports, aerospace, manufacturing, and government	○	○	○	○	○

MS Engineering Physics
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
Ability to identify, formulate and solve space science and engineering problems	○	○	○	○	○
Understanding and ability to apply advanced numerical methods	○	○	○	○	○
Understanding and ability to apply advanced space physics concepts	○	○	○	○	○
Understanding and ability to apply experimental methods in space science	○	○	○	○	○
Knowledge of advanced spacecraft dynamics and control	○	○	○	○	○
Knowledge of spacecraft power and thermal design	○	○	○	○	○

MS Human Factors and Systems (Human Factors Engr)
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
Ability to identify human factors problems in operational environments	○	○	○	○	○
Knowledge of general systems concepts	○	○	○	○	○
Ability to apply the knowledge of human perception, cognition, and memory to operational and design problems	○	○	○	○	○
Understanding and ability to apply statistical and quantitative techniques	○	○	○	○	○
Understanding and ability to apply the strategies involved in planning, implementing, and controlling a research plan	○	○	○	○	○

MS Human Factors and Systems (Systems Engr)
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
Knowledge of general systems concepts	○	○	○	○	○
Ability to apply the knowledge of reliability, maintainability, logistics, safety, and producibility to operational and design problems	○	○	○	○	○
Ability to identify human factors problems in operational environments	○	○	○	○	○
Ability to balance operational, behavioral, economic, and logistical factors in operations and design	○	○	○	○	○
Understanding and ability to apply statistical and quantitative techniques	○	○	○	○	○
Understanding and ability to apply the strategies involved in planning, implementing, and controlling a research plan	○	○	○	○	○

PhD Engineering Physics
To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?

	Very Much	Quite A Bit	Some	Very Little	Not At All
Identify, formulate and solve space science and spacecraft engineering problems	○	○	○	○	○
Develop and apply expertise in advanced spacecraft engineering	○	○	○	○	○
Develop a mastery of scientific and engineering research techniques	○	○	○	○	○
Extend the knowledge base by producing and communicating original research	○	○	○	○	○