

# EMBRY-RIDDLE

## Aeronautical University

### ALUMNI SURVEY

### One Year After Graduation

**Directions:** 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.

Please type your colleague ID number in the space provided below. (Refer to cover letter)

*Note: Colleague ID is used only to remove your information for follow-up reminders and to retrieve demographic information. It will not be used to identify individual responses.*

Colleague  
ID

#### Major

- |   |  |   |
|---|--|---|
| <input type="radio"/> BS Aeronautical Science             | <input type="radio"/> BS Aviation Management       | <input type="radio"/> BS Space Physics                                  |
| <input type="radio"/> BS Aeronautical Systems Maintenance | <input type="radio"/> BS Business Admin            | <input type="radio"/> MS Aeronautics                                    |
| <input type="radio"/> BS Aeronautics                      | <input type="radio"/> BS Communication             | <input type="radio"/> M Business Admin                                  |
| <input type="radio"/> BS Aerospace Electronics            | <input type="radio"/> BS Computational Mathematics | <input type="radio"/> MS Engineering Physics                            |
| <input type="radio"/> BS Aerospace Studies                | <input type="radio"/> BS Engineering Physics       | <input type="radio"/> MS Human Factors and Systems (Human Factors Engr) |
| <input type="radio"/> BS Air Traffic Management           | <input type="radio"/> BS Homeland Security         | <input type="radio"/> MS Human Factors and Systems (Systems Engr)       |
| <input type="radio"/> BS Applied Meteorology              | <input type="radio"/> BS Human Factors Psychology  | <input type="radio"/> PhD Engineering Physics                           |
| <input type="radio"/> BS Aviation Maintenance Science     | <input type="radio"/> BS Interdisciplinary Studies |   |
|   | <input type="radio"/> BS Safety Science            |   |

## EMPLOYMENT PLANS

### What is your present employment status?

- ☐ Employed full-time
- ☐ Employed part-time
- ☐ Not employed

### Read ALL of the following options. Which one category BEST describes your current employment status in the past year or since you graduated from ERAU?

- ☐ Out of the work force due to continuing education
- ☐ Out of the work force and actively seeking employment
- ☐ Out of the work force due to other reasons

If due to other reason,  
please state the reason:

### How closely related is your present position to your degree?

- ☐ Closely related
- ☐ Somewhat related
- ☐ Not related

### Did the degree you received from ERAU lead directly to a: (Please select all that apply)

- ☐ New Job
- ☐ Promotion
- ☐ Pay Raise
- ☐ Other:

If other, please  
specify:

**Which area best describes your field of work? (choose one)**

- ☐ Aerospace
- ☐ Air Cargo
- ☐ Air Traffic Control
- ☐ Aircraft Sales
- ☐ Airline (Major)
- ☐ Airline (Regional)
- ☐ Airport
- ☐ Avionics
- ☐ Charter/Fractional/Non-121 Ops
- ☐ Commercial Space
- ☐ Consulting
- ☐ Corporate/Business Aviation
- ☐ Education (flight instructor excluded)\*
- ☐ Flight School
- ☐ General Aviation/FBO
- ☐ Government Services (Federal)
- ☐ Government Services (State/Local)
- ☐ Human Factors
- ☐ Insurance
- ☐ Logistics
- ☐ Maintenance Facility/MRO
- ☐ Manufacturing (Aerospace)
- ☐ Manufacturing (Aviation)
- ☐ Meteorology
- ☐ Military\*
- ☐ Professional Association/Organization
- ☐ Robotics
- ☐ Sales/Customer Service
- ☐ Security/Intelligence
- ☐ Simulation/Training
- ☐ UAV
- ☐ Other (aviation):

- ☐ Other (non-aviation):

\*Includes aviation and non-aviation jobs

**What is your annual starting salary at your present position BEFORE taxes?**

\$

**Please specify your position and employer information:**

Your Title:

Employer  
/Company:

Name of Direct  
Supervisor:

Department:

Supervisor's  
Email:

Street:

City:

State:

--Click Here--

Alabama  
Alaska  
Arizona  
Arkansas  
California  
Colorado  
Connecticut  
Delaware  
District of Columbia  
Georgia  
Florida  
Hawaii  
Idaho  
Illinois  
Indiana  
Iowa  
Kansas  
Kentucky  
Louisiana  
Maine  
Maryland  
Massachusetts  
Michigan  
Minnesota  
Mississippi  
Missouri  
Montana  
Nebraska  
Nevada  
New Hampshire  
New Jersey  
New Mexico  
New York  
North Carolina  
North Dakota  
Ohio  
Oklahoma  
Oregon  
Pennsylvania  
Rhode Island  
South Carolina  
South Dakota  
Tennessee  
Texas  
Utah  
Virginia  
Washington  
West Virginia  
Wisconsin  
Wyoming

Zip Code:

## EDUCATIONAL PLANS

**Are you currently attending or have you attended school at any time after you received your degree from ERAU?**

- ☐ I have received a graduate degree
- ☐ Currently attending graduate school
- ☐ I have been accepted but not yet started
- ☐ I plan to attend in the future
- ☐ I have no plans to attend graduate or professional school

**In what school/program did you enroll in after you received your degree from ERAU? (choose one)**

- ☐ Arts and Sciences
- ☐ Aeronautical/Aviation/Aerospace (Excluding Engineering programs)
- ☐ Business
- ☐ Education
- ☐ Engineering
- ☐ Other

**What degree or certificate are you working towards at this school? (choose one)**

- ☐ Courses not leading to a degree/certificate
- ☐ Baccalaureate degree
- ☐ Master's degree
- ☐ Doctoral degree
- ☐ Other

**On what basis are you PRIMARILY enrolled?**

- ☐ Full-time
- ☐ Part-time

**How closely is your course work related to your field of study at ERAU?**

- ☐ Closely related
- ☐ Somewhat related
- ☐ Not related

**How would you rate the PREPARATION you received at ERAU for your continuing education?**



Excellent



Good



Average



Poor



Very Poor

## RESEARCH SKILLS

Usefulness to current job/goal				
	<i>Very Useful</i>	<i>Useful</i>	<i>Not Very Useful</i>	<i>Not at all Useful</i>
Define and/or articulate a research problem	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Design a course of action to solve a research problem	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Apply ethical principles in research methodologies and in the application of research results	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Conduct research independently and/or collaboratively	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Reach decisions or conclusions based on the analysis and synthesis of evidence	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Communicate research results	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Rate ERAU preparation				
	<i>Very High Preparation</i>	<i>High Preparation</i>	<i>Moderate Preparation</i>	<i>Little Preparation</i>
Define and/or articulate a research problem	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Design a course of action to solve a research problem	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Apply ethical principles in research methodologies and in the application of research results	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Conduct research independently and/or collaboratively	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Reach decisions or conclusions based on the analysis and synthesis of evidence	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Communicate research results	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



## GENERAL SKILLS

Usefulness to current job/goal	<div> <div></div> <div></div> <div></div> <div></div> </div>			
	<i>Very Useful</i>	<i>Useful</i>	<i>Not Very Useful</i>	<i>Not at all Useful</i>
Apply knowledge of college-level mathematics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Construct effective written documents for technical and non-technical audiences	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Communicate ideas in non-written forms (oral and visual)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Conduct and report research in accordance with professional standards	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Recognize the importance of ethical responsibility	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Identify some important results of scientific inquiry and use scientific information in critical thinking and decision-making	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Use technology to communicate ideas	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Apply economic principles to identify and solve problems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Demonstrate an understanding of the values communicated through the humanities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Describe some of the historical and contemporary issues that affect societies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Recognize the complexity of human experience from a variety of perspectives	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Rate ERAU preparation	<div> <div></div> <div></div> <div></div> <div></div> </div>			
	<i>Very High Preparation</i>	<i>High Preparation</i>	<i>Moderate Preparation</i>	<i>Little Preparation</i>
Apply knowledge of college-level mathematics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Construct effective written documents for technical and non-technical audiences	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Communicate ideas in non-written forms (oral and visual)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Conduct and report research in accordance with professional standards	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Recognize the importance of ethical responsibility	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Identify some important results of scientific inquiry and use scientific information in critical thinking and decision-making	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Use technology to communicate ideas	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Apply economic principles to identify and solve problems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Demonstrate an understanding of the values communicated through the humanities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Describe some of the historical and contemporary issues that affect societies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Recognize the complexity of human experience from a variety of perspectives	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**BS Aeronautical Science**  
**Usefulness to current job**

	<i>Very Useful</i>	<i>Useful</i>	<i>Not Very Useful</i>	<i>Not at all Useful</i>
An ability to apply knowledge of mathematics, science, and applied sciences	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An ability to analyze and interpret data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An ability to function on multi-disciplinary teams	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An understanding of professional and ethical responsibility	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An ability to communicate effectively, including both written and verbal communication skills	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A recognition of the need for, and an ability to engage in, life-long learning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A knowledge of contemporary issues	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An ability to use the techniques, skills, and modern technology necessary for professional practice	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An understanding of the national and international aviation environment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An ability to apply pertinent knowledge in identifying and solving problems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**BS Aeronautical Science**  
**Rate ERAU preparation**

	<i>Very High Preparation</i>	<i>High Preparation</i>	<i>Moderate Preparation</i>	<i>Little Preparation</i>
An ability to apply knowledge of mathematics, science, and applied sciences	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An ability to analyze and interpret data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An ability to function on multi-disciplinary teams	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An understanding of professional and ethical responsibility	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An ability to communicate effectively, including both written and verbal communication skills	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A recognition of the need for, and an ability to engage in, life-long learning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A knowledge of contemporary issues	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An ability to use the techniques, skills, and modern technology necessary for professional practice	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An understanding of the national and international aviation environment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An ability to apply pertinent knowledge in identifying and solving problems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**BS Aeronautics**  
**Usefulness to current job**

	<i>Very Useful</i>	<i>Useful</i>	<i>Not Very Useful</i>	<i>Not at all Useful</i>
Knowledge and understanding of aviation law and the regulatory process	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understanding and application of management theory/concepts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge and understanding of economic principles	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Use of statistical/quantitative techniques to solve problems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge and understanding of aviation, technology and operations, concepts, theory and applications	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge and understanding of the many facets of the aviation industry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Dealing with integrity issues	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Development of moral character	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Assertiveness in a leadership or subordinate role	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge and understanding of basic computer skills such as email, word processing, presentations, and spreadsheet software	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of scientific principles	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Distinguish themselves as valuable employees in the varied employment areas available	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Identify the influence and importance of the history of aviation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Illustrate their preparedness in technical writing skills	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**BS Aeronautics**  
**Rate ERAU preparation**

	<i>Very High Preparation</i>	<i>High Preparation</i>	<i>Moderate Preparation</i>	<i>Little Preparation</i>
Knowledge and understanding of aviation law and the regulatory process	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understanding and application of management theory/concepts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge and understanding of economic principles	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Use of statistical/quantitative techniques to solve problems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge and understanding of aviation, technology and operations, concepts, theory and applications	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge and understanding of the many facets of the aviation industry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Dealing with integrity issues	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Development of moral character	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Assertiveness in a leadership or subordinate role	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge and understanding of basic computer skills such as email, word processing, presentations, and spreadsheet software	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of scientific principles	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Distinguish themselves as valuable employees in the varied employment areas available	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Identify the influence and importance of the history of aviation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Illustrate their preparedness in technical writing skills	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**BS Aerospace Electronics**  
**Usefulness to current job**

	<i>Very Useful</i>	<i>Useful</i>	<i>Not Very Useful</i>	<i>Not at all Useful</i>
Knowledge of math and physical science.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to communicate effectively, including both written and verbal communication skills.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to function in teams.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Conduct experiments and interpret experimental data.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of circuits, electronics and instrumentation.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Identify and solve electrical and electronic circuit problems.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Use computer aided circuit analysis tools. Knowledge of contemporary issues.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand professional and ethical responsibility.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A recognition of, and the ability to engage in, lifelong learning.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**BS Aerospace Electronics**  
**Rate ERAU preparation**

	<i>Very High Preparation</i>	<i>High Preparation</i>	<i>Moderate Preparation</i>	<i>Little Preparation</i>
Knowledge of math and physical science.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to communicate effectively, including both written and verbal communication skills.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to function in teams.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Conduct experiments and interpret experimental data.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of circuits, electronics and instrumentation.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Identify and solve electrical and electronic circuit problems.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Use computer aided circuit analysis tools. Knowledge of contemporary issues.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand professional and ethical responsibility.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A recognition of, and the ability to engage in, lifelong learning.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**BS Air Traffic Management  
Usefulness to current job**

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

**BS Air Traffic Management  
Rate ERAU preparation**

	<i>Very High Preparation</i>	<i>High Preparation</i>	<i>Moderate Preparation</i>	<i>Little Preparation</i>
Understanding the history, mission, purpose and duty priority of air traffic control	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understanding the principles of flight and the pilot's environment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of basic communications and air traffic control phraseology	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of Instrument Approach Procedure (IAP), Departure Procedure (DP), and Standard Arrival Route (STAR) Charts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of VFR Sectional Charts, VFR Terminal Charts, IFR Enroute Low Altitude Charts, IFR Enroute High Altitude Charts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understanding of basic weather fundamentals, weather systems, and hazardous weather	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge and ability to interpret meteorological reports: METARs, Terminal Area Forecasts, AIRMETs, SIGMETs, and PIREPs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of air traffic control strip marking: enroute and terminal	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understanding of Radar separation procedures, airspace to be protected speed adjustments, vectoring techniques and traffic coordination applicable to Air traffic Control operations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of Federal Aviation Regulations as they pertain to Air Traffic Control	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understanding of Air Route Traffic Control Center operations as they pertain to radar separation of aircraft	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understanding of Air Route Traffic Control Center operations as they pertain to non-radar separation of aircraft	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**BS Applied Meteorology**  
**Usefulness to current job**

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

**BS Applied Meteorology**  
**Rate ERAU preparation**

	<i>Very High Preparation</i>	<i>High Preparation</i>	<i>Moderate Preparation</i>	<i>Little Preparation</i>
Ability to apply knowledge of meteorology, math, and the sciences in general to projects, services and assignments	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge and ability to utilize techniques, skills, and computer resources for weather data gathering, analysis, interpretation, and product generation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to function in teams	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An understanding of professional and ethical responsibilities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to express complex weather concepts in terms that others can understand using both written and verbal communication methods	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A recognition of the need for, and an ability to engage in, life-long learning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A knowledge of contemporary meteorological problems, issues, and programs for both research and user applications	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to use techniques, skills, and modern technology for meteorological professional practices	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An understanding of the national and international aviation environment which relate to weather	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to apply pertinent meteorological knowledge in identifying and solving problems for both yourself and for customers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**BS Aviation Maintenance Science**  
**Usefulness to current job**

	<i>Very Useful</i>	<i>Useful</i>	<i>Not Very Useful</i>	<i>Not at all Useful</i>
An ability to apply knowledge of mathematics, science, and applied sciences	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An ability to analyze and interpret data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An ability to function on multi-disciplinary teams	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An understanding of professional and ethical responsibility	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An ability to communicate effectively, including both written and verbal communication skills	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A recognition of the need for, and an ability to engage in, life-long learning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A knowledge of contemporary issues	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An ability to use the techniques, skills, and modern technology necessary for professional practice	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An understanding of the national and international aviation environment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An ability to apply pertinent knowledge in identifying and solving problems.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**BS Aviation Maintenance Science**  
**Rate ERAU preparation**

	<i>Very High Preparation</i>	<i>High Preparation</i>	<i>Moderate Preparation</i>	<i>Little Preparation</i>
An ability to apply knowledge of mathematics, science, and applied sciences	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An ability to analyze and interpret data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An ability to function on multi-disciplinary teams	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An understanding of professional and ethical responsibility	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An ability to communicate effectively, including both written and verbal communication skills	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A recognition of the need for, and an ability to engage in, life-long learning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A knowledge of contemporary issues	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An ability to use the techniques, skills, and modern technology necessary for professional practice	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An understanding of the national and international aviation environment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An ability to apply pertinent knowledge in identifying and solving problems.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**BS Business Administration**  
**Usefulness to current job**

	<i>Very Useful</i>	<i>Useful</i>	<i>Not Very Useful</i>	<i>Not at all Useful</i>
Applying management theory/concepts into a dynamic organizational environment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Applying accounting and financial information for decision making in a for-profit and not-for-profit entity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Integrate knowledge of macro- and micro-economics into managerial decision making	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Applying statistical and/or quantitative techniques to problem solving in organizations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Integrate marketing concepts/practices into executing global market strategies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Formulate business decisions by incorporating ethical standards and principles	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Access, analyze, and communicate information using multiple means/media	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understands the nature of business ethics and the role of social responsibility	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**BS Business Administration**  
**Rate ERAU preparation**

	<i>Very High Preparation</i>	<i>High Preparation</i>	<i>Moderate Preparation</i>	<i>Little Preparation</i>
Applying management theory/concepts into a dynamic organizational environment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Applying accounting and financial information for decision making in a for-profit and not-for-profit entity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Integrate knowledge of macro- and micro-economics into managerial decision making	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Applying statistical and/or quantitative techniques to problem solving in organizations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Integrate marketing concepts/practices into executing global market strategies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Formulate business decisions by incorporating ethical standards and principles	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Access, analyze, and communicate information using multiple means/media	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understands the nature of business ethics and the role of social responsibility	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



**BS Communication**  
**Usefulness to current job**

	<i>Very Useful</i>	<i>Useful</i>	<i>Not Very Useful</i>	<i>Not at all Useful</i>
Develop effective news and information gathering skills using interviews, print documents and Internet materials.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Develop professional writing skills directed at general and specific audiences.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Develop effective speaking skills appropriate for both small group discussions and large audience presentations.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Develop teamwork communication skills appropriate to group projects.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Develop digital skills for delivery of visual designs as well as Internet presentations.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand the development, principles and goals of mass communication media, with emphasis on twenty-first century media.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand specific legal and ethical environments unique to mass media communication.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Garner knowledge and skills from a minor that enhanced those developed in the major.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Complete an internship that enhanced knowledge and skills gained in the classroom.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**BS Communication**  
**Rate ERAU preparation**

	<i>Very High Preparation</i>	<i>High Preparation</i>	<i>Moderate Preparation</i>	<i>Little Preparation</i>
Develop effective news and information gathering skills using interviews, print documents and Internet materials.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Develop professional writing skills directed at general and specific audiences.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Develop effective speaking skills appropriate for both small group discussions and large audience presentations.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Develop teamwork communication skills appropriate to group projects.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Develop digital skills for delivery of visual designs as well as Internet presentations.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand the development, principles and goals of mass communication media, with emphasis on twenty-first century media.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand specific legal and ethical environments unique to mass media communication.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Garner knowledge and skills from a minor that enhanced those developed in the major.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Complete an internship that enhanced knowledge and skills gained in the classroom.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**BS Computational Mathematics**  
**Usefulness to current job**

*Very Useful*      *Useful*      *Not Very Useful*      *Not at all Useful*

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 Computational Mathematics**  
**Rate ERAU preparation**

*Very High Preparation*      *High Preparation*      *Moderate Preparation*      *Little Preparation*

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 Engineering Physics**  
**Usefulness to current job**

*Very Useful      Useful      Not Very Useful      Not at all Useful*

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 Engineering Physics Rate ERAU preparation

	<i>Very High Pre paration</i>	<i>High Pre paration</i>	<i>Moderate Preparati on</i>	<i>Little Pre paration</i>
Apply knowledge of mathematics, science, and engineering	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Design and conduct experiments	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Analyze and interpret data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Design a system, component, or process to meet desired needs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Function on multi-disciplinary teams	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Identify, formulate, and solve engineering problems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand professional and ethical responsibility	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Communicate effectively	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand the impact of engineering solutions in a global and societal context	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Recognize and engage in life-long learning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of contemporary issues	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Use the techniques, skills, and modern engineering tools necessary for engineering practice	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of classical mechanics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of engineering electricity and magnetism	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of space physics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of quantum physics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of space systems engineering and design	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of electro-optical engineering	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of microcomputers and electronic instrumentation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

## BS Homeland Security Usefulness to current job

	<i>Very Useful</i>	<i>Useful</i>	<i>Not Very Useful</i>	<i>Not at all Useful</i>
Capability for students to work collaboratively and effectively on teams.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Capability to deliver professional presentations and briefs.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Demonstrate the ability to recognize transnational and global homeland security or defense issues, strategies and operations.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Demonstrate the ability to design, conduct and evaluate exercises applicable to the disciplines of homeland security or defense.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Demonstrate knowledge of contemporary or emergent threats, challenges or issues including natural, manmade and technological hazards.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Demonstrate the ability to identify, describe and critically evaluate applicable homeland security or defense technologies.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Demonstrate an understanding of terrorism, its origins, ideologies and goals.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Demonstrate an understanding of infrastructures critical to the US and how best to protect them.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Provide the ability for students to understand and apply risk management tools to homeland security issues.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Demonstrate the ability to analyze environmental sources that destabilize regions and to characterize their relationship to US national security.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**BS Homeland Security  
Rate ERAU preparation**

	<i>Very High Preparation</i>	<i>High Preparation</i>	<i>Moderate Preparation</i>	<i>Little Preparation</i>
Capability for students to work collaboratively and effectively on teams.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Capability to deliver professional presentations and briefs.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Demonstrate the ability to recognize transnational and global homeland security or defense issues, strategies and operations.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Demonstrate the ability to design, conduct and evaluate exercises applicable to the disciplines of homeland security or defense.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Demonstrate knowledge of contemporary or emergent threats, challenges or issues including natural, manmade and technological hazards.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Demonstrate the ability to identify, describe and critically evaluate applicable homeland security or defense technologies.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Demonstrate an understanding of terrorism, its origins, ideologies and goals.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Demonstrate an understanding of infrastructures critical to the US and how best to protect them.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Provide the ability for students to understand and apply risk management tools to homeland security issues.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Demonstrate the ability to analyze environmental sources that destabilize regions and to characterize their relationship to US national security.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**BS Human Factors Psychology  
Usefulness to current job**

	<i>Very Useful</i>	<i>Useful</i>	<i>Not Very Useful</i>	<i>Not at all Useful</i>
Knowledge of human psycho physiological, cognitive, and perceptual functioning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of human factors involving analytic methods, models, and human capabilities and limitations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of basic statistical procedures, including analysis of variance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Research methods and design skills	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Effective oral and written communication skills	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to read, comprehend, and analyze results of published empirical studies in the human factors field	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understanding of the application of human factors and psychological knowledge in aviation and other applied domains	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**BS Human Factors Psychology  
Rate ERAU preparation**

	<i>Very High Preparation</i>	<i>High Preparation</i>	<i>Moderate Preparation</i>	<i>Little Preparation</i>
Knowledge of human psycho physiological, cognitive, and perceptual functioning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of human factors involving analytic methods, models, and human capabilities and limitations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of basic statistical procedures, including analysis of variance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Research methods and design skills	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Effective oral and written communication skills	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to read, comprehend, and analyze results of published empirical studies in the human factors field	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understanding of the application of human factors and psychological knowledge in aviation and other applied domains	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**BS Aerospace Studies/Interdisciplinary Studies**  
**Usefulness to current job**

	<i>Very Useful</i>	<i>Useful</i>	<i>Not Very Useful</i>	<i>Not at all Useful</i>
Understand basic concepts in several areas of study, such as aeronautical science, business administration, and social sciences.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand the complex history and culture of one or more world regions.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Develop vocabulary and writing skills that apply to specific communication contexts.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Appreciate and understand the complexity and magnitude of human production in literature, the visual arts, architecture, religion, and myth.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Develop skills in analytical interpretations of works in the humanities.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Appreciate and understand human moral, religious, or philosophical thinking and belief systems.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Garner skills and knowledge from intersecting minors to form a coherent body of knowledge.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**BS Aerospace Studies/Interdisciplinary Studies**  
**Rate ERAU preparation**

	<i>Very High Preparation</i>	<i>High Preparation</i>	<i>Moderate Preparation</i>	<i>Little Preparation</i>
Understand basic concepts in several areas of study, such as aeronautical science, business administration, and social sciences.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand the complex history and culture of one or more world regions.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Develop vocabulary and writing skills that apply to specific communication contexts.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Appreciate and understand the complexity and magnitude of human production in literature, the visual arts, architecture, religion, and myth.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Develop skills in analytical interpretations of works in the humanities.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Appreciate and understand human moral, religious, or philosophical thinking and belief systems.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Garner skills and knowledge from intersecting minors to form a coherent body of knowledge.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**BS Safety Science**  
**Usefulness to current job**

*Very Useful*      *Useful*      *Not Very Useful*      *Not at all Useful*

Identify, evaluate and control health and safety hazards in the workplace	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Demonstrate competency in the principles of fire prevention, suppression, and life safety	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Demonstrate competency in the fundamentals of industrial hygiene and toxicology	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Apply systems safety analysis techniques to identify, prioritize, and control hazards in human-machine systems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Demonstrate knowledge of aviation safety reporting systems and safety data sources	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Deal with the threat of violence and other international harmful acts in the workplace	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Develop, test, and maintain an airport emergency plan, including Aircraft Rescue and Fire Fighting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Develop an understanding of federal human resources statutes and legal torts and contracts as it relates to safety/risk management in aviation law	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Develop and maintain a comprehensive workplace safety program	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Demonstrate competency in applying OSHA and EPA regulations to the workplace	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Apply DOT regulations to the application of different classes of hazardous materials	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Discuss the federal regulations pertaining to aircraft operations, rulemaking and certification	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Evaluate an airport's compliance with federal regulations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Explain the application of workers' compensation practices	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Initiate, develop, conduct and manage aircraft accident investigations in accordance with all the requirements of the NTSB FAA and other relevant regulatory bodies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Apply SHELL and Reason's model to understanding accident causation and prevention	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Evaluate the role of human factors issues (fatigue, body rhythms, vision, etc.) as they relate to human performance and accident causation and prevention	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Apply principles of crash survival to the design and outfitting of aircraft	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Complete a "Crash Survival Analysis" rating for various fixed-wing rotor aircraft	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Demonstrate the ability to work in teams	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Write and formulate a technical report	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Possess professional presentation skills	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**BS Safety Science**  
**Rate ERAU preparation**

*Very High  
Preparation*      *High Preparation*      *Moderate  
Preparation*      *Little Preparation*

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 rhythms, 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 Space Physics**  
**Usefulness to current job**

	<i>Very Useful</i>	<i>Useful</i>	<i>Not Very Useful</i>	<i>Not at all Useful</i>
Apply knowledge of mathematics and science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Design and conduct experiments	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Analyze and interpret data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Identify, formulate, and solve scientific problems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand professional and ethical responsibility	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Communicate effectively	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Recognize and engage in life-long learning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of contemporary issues	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of classical mechanics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of electricity and magnetism	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of space physics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of quantum mechanics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of planetary science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of astrophysics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**BS Space Physics**  
**Rate ERAU preparation**

	<i>Very High Preparation</i>	<i>High Preparation</i>	<i>Moderate Preparation</i>	<i>Little Preparation</i>
Apply knowledge of mathematics and science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Design and conduct experiments	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Analyze and interpret data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Identify, formulate, and solve scientific problems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand professional and ethical responsibility	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Communicate effectively	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Recognize and engage in life-long learning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of contemporary issues	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of classical mechanics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of electricity and magnetism	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of space physics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of quantum mechanics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of planetary science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of astrophysics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**MS Aeronautics**  
**Usefulness to current job**

	<i>Very Useful</i>	<i>Useful</i>	<i>Not Very Useful</i>	<i>Not At All Useful</i>
Work collaboratively as a team with individual accountability and team building skills	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Demonstrate problem-solving skills using scientific research methods	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Demonstrate graduate level writing ability using APA format	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Demonstrate professional communication and oral presentation skills using appropriate media	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Demonstrate the ability to evaluate current industry issues or problems using critical thinking skills.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Demonstrate the use of technology appropriate to industry requirements.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Apply an ethical and professional framework to decision making.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**MS Aeronautics**  
**Rate ERAU preparation**

	<i>Very High Preparation</i>	<i>High Preparation</i>	<i>Moderate Preparation</i>	<i>Little Preparation</i>
Work collaboratively as a team with individual accountability and team building skills	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Demonstrate problem-solving skills using scientific research methods	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Demonstrate graduate level writing ability using APA format	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Demonstrate professional communication and oral presentation skills using appropriate media	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Demonstrate the ability to evaluate current industry issues or problems using critical thinking skills.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Demonstrate the use of technology appropriate to industry requirements.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Apply an ethical and professional framework to decision making.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**M Business Administration**  
**Usefulness to current job**

	<i>Very Useful</i>	<i>Useful</i>	<i>Not Very Useful</i>	<i>Not at all Useful</i>
Apply key organizational concepts of group dynamics, leadership, conflict resolution, ethics and motivation in implementing organizational goals	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Apply the concepts and strategies involved in planning, implementing and controlling, a marketing plan with special emphasis on aviation/aerospace organizations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Analyze financial statements and utilize corporate finance concepts and techniques in decision making within organizations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Access, analyze, and communicate information using multiple means/media	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Apply statistical and quantitative analysis to solve business problems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Integrate knowledge of macro- and micro-economic concepts to support aviation/aerospace operations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Formulate and execute strategies and policies required to achieve organizational goals in the competitive environment of airlines, airports, aerospace, manufacturing, and government	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

### M Business Administration Rate ERAU preparation

	<i>Very High Preparation</i>	<i>High Preparation</i>	<i>Moderate Preparation</i>	<i>Little Preparation</i>
Apply key organizational concepts of group dynamics, leadership, conflict resolution, ethics and motivation in implementing organizational goals	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Apply the concepts and strategies involved in planning, implementing and controlling, a marketing plan with special emphasis on aviation/aerospace organizations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Analyze financial statements and utilize corporate finance concepts and techniques in decision making within organizations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Access, analyze, and communicate information using multiple means/media	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Apply statistical and quantitative analysis to solve business problems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Integrate knowledge of macro- and micro-economic concepts to support aviation/aerospace operations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Formulate and execute strategies and policies required to achieve organizational goals in the competitive environment of airlines, airports, aerospace, manufacturing, and government	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

### MS Engineering Physics Usefulness to current job

	<i>Very Useful</i>	<i>Useful</i>	<i>Not Very Useful</i>	<i>Not at all Useful</i>
Ability to identify, formulate and solve space science and engineering problems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understanding and ability to apply advanced numerical methods	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understanding and ability to apply advanced space physics concepts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understanding and ability to apply experimental methods in space science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of advanced spacecraft dynamics and control	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of spacecraft power and thermal design	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

### MS Engineering Physics Rate ERAU preparation

	<i>Very High Preparation</i>	<i>High Preparation</i>	<i>Moderate Preparation</i>	<i>Little Preparation</i>
Ability to identify, formulate and solve space science and engineering problems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understanding and ability to apply advanced numerical methods	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understanding and ability to apply advanced space physics concepts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understanding and ability to apply experimental methods in space science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of advanced spacecraft dynamics and control	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of spacecraft power and thermal design	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**MS Human Factors and Systems (Human Factors Engr)****Usefulness to current job**

	<i>Very Useful</i>	<i>Useful</i>	<i>Not Very Useful</i>	<i>Not at all Useful</i>
Ability to identify human factors problems in operational environments	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of general systems concepts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to apply the knowledge of human perception, cognition, and memory to operational and design problems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understanding and ability to apply statistical and quantitative techniques	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understanding and ability to apply the strategies involved in planning, implementing, and controlling a research plan	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**MS Human Factors and Systems (Human Factors Engr)****Rate ERAU preparation**

	<i>Very High Preparation</i>	<i>High Preparation</i>	<i>Moderate Preparation</i>	<i>Little Preparation</i>
Ability to identify human factors problems in operational environments	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of general systems concepts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to apply the knowledge of human perception, cognition, and memory to operational and design problems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understanding and ability to apply statistical and quantitative techniques	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understanding and ability to apply the strategies involved in planning, implementing, and controlling a research plan	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**MS Human Factors and Systems (Systems Engr)****Usefulness to current job**

	<i>Very Useful</i>	<i>Useful</i>	<i>Not Very Useful</i>	<i>Not at all Useful</i>
Knowledge of general systems concepts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to apply the knowledge of reliability, maintainability, logistics, safety, and producibility to operational and design problems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to identify human factors problems in operational environments	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to balance operational, behavioral, economic, and logistical factors in operations and design	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understanding and ability to apply statistical and quantitative techniques	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understanding and ability to apply the strategies involved in planning, implementing, and controlling a research plan	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**MS Human Factors and Systems (Systems Engr)****Rate ERAU preparation**

	<i>Very High Preparation</i>	<i>High Preparation</i>	<i>Moderate Preparation</i>	<i>Little Preparation</i>
Knowledge of general systems concepts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to apply the knowledge of reliability, maintainability, logistics, safety, and producibility to operational and design problems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to identify human factors problems in operational environments	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to balance operational, behavioral, economic, and logistical factors in operations and design	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understanding and ability to apply statistical and quantitative techniques	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understanding and ability to apply the strategies involved in planning, implementing, and controlling a research plan	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**PhD Engineering Physics  
Usefulness to current job**

	<i>Very Useful</i>	<i>Useful</i>	<i>Not Very Useful</i>	<i>Not at all Useful</i>
Identify, formulate and solve space science and spacecraft engineering problems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Develop and apply expertise in advanced spacecraft engineering	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Develop a mastery of scientific and engineering research techniques	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Extend the knowledge base by producing and communicating original research	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**PhD Engineering Physics  
Rate ERAU preparation**

	<i>Very High Preparation</i>	<i>High Preparation</i>	<i>Moderate Preparation</i>	<i>Little Preparation</i>
Identify, formulate and solve space science and spacecraft engineering problems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Develop and apply expertise in advanced spacecraft engineering	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Develop a mastery of scientific and engineering research techniques	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Extend the knowledge base by producing and communicating original research	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**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 Aerospace Engineering Usefulness to current job/goal				
	Very Useful	Useful	Not Very Useful	Not at all Useful
Engineering responsibilities and methodology	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Professional activity and development	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Technical communication	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
General education	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Basic science and mathematics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Engineering mechanics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Aerodynamics and aeronautics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Thermal sciences and propulsion	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Structures and materials	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Electronics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Astronautics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Laboratories and data interpretation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Design	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Support hardware and software	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

BS Aerospace Engineering Rate ERAU preparation				
	Very High Preparation	High Preparation	Moderate Preparation	Little Preparation
Engineering responsibilities and methodology	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Professional activity and development	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Technical communication	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
General education	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Basic science and mathematics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Engineering mechanics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Aerodynamics and aeronautics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Thermal sciences and propulsion	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Structures and materials	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Electronics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Astronautics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Laboratories and data interpretation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Design	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Support hardware and software	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**BS Civil Engineering**  
**Usefulness to current job/goal**

	<i>Very Useful</i>	<i>Useful</i>	<i>Not Very Useful</i>	<i>Not at all Useful</i>
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 Civil Engineering**  
**Rate ERAU preparation**

	<i>Very High Preparation</i>	<i>High Preparation</i>	<i>Moderate Preparation</i>	<i>Little Preparation</i>
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 Computer Engineering**  
**Usefulness to current job/goal**

*Very Useful      Useful      Not Very Useful      Not at all Useful*

- 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 Engineering**  
**Rate ERAU preparation**

*Very High Preparation      High Preparation      Moderate Preparation      Little Preparation*

- 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**  
**Usefulness to current job/goal**

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

**BS Computer Science**  
**Rate ERAU preparation**

	<i>Very High Preparation</i>	<i>High Preparation</i>	<i>Moderate Preparation</i>	<i>Little Preparation</i>
An ability to apply knowledge of computing and mathematics appropriate to the discipline	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An ability to analyze a problem, and identify and define the computing requirements appropriate to its solution	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An ability to function effectively on teams to accomplish a common goal	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An understanding of professional, ethical, legal, security and social issues and responsibilities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An ability to communicate effectively with a range of audiences	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An ability to analyze the local and global impact of computing on individuals, organizations, and society	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Recognition of the need for and an ability to engage in continuing professional development	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An ability to use current techniques, skills, and tools necessary for computing practice.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An ability to apply design and development principles in the construction of software systems of varying complexity.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

## BS Electrical Engineering Usefulness to current job/goal

	<i>Very Useful</i>	<i>Useful</i>	<i>Not Very Useful</i>	<i>Not at all Useful</i>
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.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An ability to design and conduct experiments, as well as analyze and interpret data.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An ability to function on multi-disciplinary teams.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An ability to identify, formulate, and solve engineering problems.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An understanding of professional and ethical responsibility	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An ability to communicate effectively.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The broad education necessary to understand the impact of engineering solutions in a global and societal context.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A recognition of the need for, and an ability to engage in life-long learning.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of contemporary issues.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

## BS Electrical Engineering Rate ERAU preparation

	<i>Very High Preparation</i>	<i>High Preparation</i>	<i>Moderate Preparation</i>	<i>Little Preparation</i>
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.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An ability to design and conduct experiments, as well as analyze and interpret data.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An ability to function on multi-disciplinary teams.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An ability to identify, formulate, and solve engineering problems.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An understanding of professional and ethical responsibility	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An ability to communicate effectively.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The broad education necessary to understand the impact of engineering solutions in a global and societal context.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A recognition of the need for, and an ability to engage in life-long learning.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of contemporary issues.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**BS Mechanical Engineering**  
**Usefulness to current job/goal**

	<i>Very Useful</i>	<i>Useful</i>	<i>Not Very Useful</i>	<i>Not at all Useful</i>
An ability to apply knowledge of mathematics, science, and engineering	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An ability to design and conduct experiments, as well as analyze and interpret data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An ability to design and realize a thermal or mechanical system, component or process to meet desires needs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An ability to function on multi-disciplinary teams	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An ability to identify, formulate, and solve engineering problems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An understanding of professional and ethical responsibility	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An ability to communicate effectively	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An understanding of the impact of engineering solutions in a global and societal context	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A recognition of, and an ability to engage in, life-long learning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A knowledge of contemporary issues	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**BS Mechanical Engineering**  
**Rate ERAU preparation**

	<i>Very High Preparation</i>	<i>High Preparation</i>	<i>Moderate Preparation</i>	<i>Little Preparation</i>
An ability to apply knowledge of mathematics, science, and engineering	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An ability to design and conduct experiments, as well as analyze and interpret data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An ability to design and realize a thermal or mechanical system, component or process to meet desires needs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An ability to function on multi-disciplinary teams	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An ability to identify, formulate, and solve engineering problems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An understanding of professional and ethical responsibility	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An ability to communicate effectively	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An understanding of the impact of engineering solutions in a global and societal context	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A recognition of, and an ability to engage in, life-long learning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A knowledge of contemporary issues	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**BS Software Engineering**  
**Usefulness to current job/goal**

	<i>Very Useful</i>	<i>Useful</i>	<i>Not Very Useful</i>	<i>Not at all Useful</i>
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 Software Engineering**  
**Rate ERAU preparation**

	<i>Very High Preparation</i>	<i>High Preparation</i>	<i>Moderate Preparation</i>	<i>Little Preparation</i>
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				

**M Aerospace Engineering/MS Aerospace Engineering****Usefulness to current job/goal**

	<i>Very Useful</i>	<i>Useful</i>	<i>Not Very Useful</i>	<i>Not at all Useful</i>
Ability to analyze and solve engineering problems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
In one or more of the following subject areas: aerodynamics, aerospace materials, computational methods, controls, propulsion and structures	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Preparation for a career in the aerospace industry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Preparation for further study	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**M Aerospace Engineering/MS Aerospace Engineering****Rate ERAU preparation?**

	<i>Very High Pr eparati on</i>	<i>High Pr eparati on</i>	<i>Moderate Prep aration</i>	<i>Little Pr eparati on</i>
Ability to analyze and solve engineering problems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
In one or more of the following subject areas: aerodynamics, aerospace materials, computational methods, controls, propulsion and structures	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Preparation for a career in the aerospace industry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Preparation for further study	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**MS Electrical/Computer Engineering**  
**Usefulness to current job/goal**

	<i>Very Useful</i>	<i>Useful</i>	<i>Not Very Useful</i>	<i>Not at all Useful</i>
Ability to apply fundamental computer engineering and electrical engineering professional practices to analysis, design, and implementation of electrical and/or computer systems.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to apply knowledge of advanced topics in electrical engineering or computer engineering, as appropriate to chosen concentration.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to communicate effectively and to perform successfully as part of a team.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**MS Electrical/Computer Engineering**  
**Rate ERAU preparation**

	<i>Very High Preparation</i>	<i>High Preparation</i>	<i>Moderate Preparation</i>	<i>Little Preparation</i>
Ability to apply fundamental computer engineering and electrical engineering professional practices to analysis, design, and implementation of electrical and/or computer systems.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to apply knowledge of advanced topics in electrical engineering or computer engineering, as appropriate to chosen concentration.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to communicate effectively and to perform successfully as part of a team.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**M Software Engineering**  
**Usefulness to current job/goal**

	<i>Very Useful</i>	<i>Useful</i>	<i>Not Very Useful</i>	<i>Not at all Useful</i>
Ability to apply software engineering processes appropriate to the analysis or development of highly reliable software systems.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to communicate effectively and to perform successfully as part of a team.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to use software engineering methods, techniques, and tools as they relate to the management of software development	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**M Software Engineering**  
**Rate ERAU preparation**

	<i>Very High Preparation</i>	<i>High Preparation</i>	<i>Moderate Preparation</i>	<i>Little Preparation</i>
Ability to apply software engineering processes appropriate to the analysis or development of highly reliable software systems.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to communicate effectively and to perform successfully as part of a team.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to use software engineering methods, techniques, and tools as they relate to the management of software development	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



**BS Aeronautical Science**  
**Usefulness to current job**

	<i>Very Useful</i>	<i>Useful</i>	<i>Not Very Useful</i>	<i>Not at all Useful</i>
Understanding aerodynamic performance of aircraft powered by reciprocating and turbine engines	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Use of electronic navigation and flight control systems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Crew coordination (cockpit resource management)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of flight physiology, awareness of flight psychology (human factors)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understanding of safety issues, employment of accident prevention techniques, safety program practices and management, and mishap investigation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understanding the concepts and process of meteorology	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Instrument flight skill	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Multi-engine/high performance aircraft operations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of Federal Aviation Regulations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Aeronautical decision making (judgment skills)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Actions, attitudes, and knowledge of security considerations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Dealing with integrity issues	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Development of moral character	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Assertiveness in a leadership or subordinate role	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ground/Flight training aptitude	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to adapt to and understand Ground/Flight training for initial aviation position	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Foundation for understanding complex aircraft systems/navigation/operation in future aviation positions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**BS Aeronautical Science**  
**Rate ERAU preparation**

*Very High  
Preparation*      *High Preparation*      *Moderate  
Preparation*      *Little Preparation*

Understanding aerodynamic performance of aircraft powered by reciprocating and turbine engines				
Use of electronic navigation and flight control systems				
Crew coordination (cockpit resource management)				
Knowledge of flight physiology, awareness of flight psychology (human factors)				
Understanding of safety issues, employment of accident prevention techniques, safety program practices and management, and mishap investigation				
Understanding the concepts and process of meteorology				
Instrument flight skill				
Multi-engine/high performance aircraft operations				
Knowledge of Federal Aviation Regulations				
Aeronautical decision making (judgment skills)				
Actions, attitudes, and knowledge of security considerations				
Dealing with integrity issues				
Development of moral character				
Assertiveness in a leadership or subordinate role				
Ground/Flight training aptitude				
Ability to adapt to and understand Ground/Flight training for initial aviation position				
Foundation for understanding complex aircraft systems/navigation/operation in future aviation positions				

**BS Aeronautics**  
**Usefulness to current job**

	<i>Very Useful</i>	<i>Useful</i>	<i>Not Very Useful</i>	<i>Not at all Useful</i>
Knowledge and understanding of aviation law and regulations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understanding and application of management theory/concepts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge and understanding of economic principles	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Use of statistical/quantitative techniques to solve problems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge and understanding of aviation, technology and operations, concepts, theory and applications	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge and understanding of the many facets of the aviation industry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Dealing with integrity issues	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Development of moral character	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Assertiveness in a leadership or subordinate role	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge and understanding of basic computer skills such as email, word processing, presentations, and spreadsheet software	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of scientific principles	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**BS Aeronautics**  
**Rate ERAU preparation**

	<i>Very High Preparation</i>	<i>High Preparation</i>	<i>Moderate Preparation</i>	<i>Little Preparation</i>
Knowledge and understanding of aviation law and regulations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understanding and application of management theory/concepts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge and understanding of economic principles	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Use of statistical/quantitative techniques to solve problems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge and understanding of aviation, technology and operations, concepts, theory and applications	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge and understanding of the many facets of the aviation industry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Dealing with integrity issues	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Development of moral character	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Assertiveness in a leadership or subordinate role	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge and understanding of basic computer skills such as email, word processing, presentations, and spreadsheet software	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of scientific principles	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**BS Aerospace Engineering**  
**Usefulness to current job**

*Very Useful*      *Useful*      *Not Very Useful*      *Not at all Useful*

Knowledge of mathematics and physical science



Knowledge of fundamental engineering sciences



Design and conduct experiments



Analyze and interpret experimental data



Knowledge of aerodynamics



Knowledge of aircraft performance



Knowledge of flight mechanics or spacecraft dynamics



Knowledge of aerospace materials



Knowledge of aircraft or spacecraft structures



Knowledge of propulsion



Knowledge of orbital mechanics



Knowledge of control systems



Knowledge of circuits, electronics, or instrumentation



Identify, formulate, and solve engineering problems



Use computer aided engineering and programming tools



Design an aircraft or spacecraft system, component, or mission to meet desired needs



Understand the impact of engineering decisions on society and the environment



Understand professional and ethical responsibility



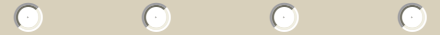
Recognize the need to continue professional development throughout one's career



**BS Aerospace Engineering**  
**Rate ERAU preparation**

*Very High  
Preparation*      *High Preparation*      *Moderate  
Preparation*      *Little Preparation*

Knowledge of mathematics and physical science



Knowledge of fundamental engineering sciences



Design and conduct experiments



Analyze and interpret experimental data



Knowledge of aerodynamics



Knowledge of aircraft performance



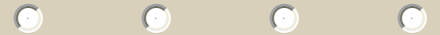
Knowledge of flight mechanics or spacecraft dynamics



Knowledge of aerospace materials



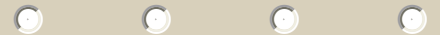
Knowledge of aircraft or spacecraft structures



Knowledge of propulsion



Knowledge of orbital mechanics



Knowledge of control systems



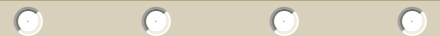
Knowledge of circuits, electronics, or instrumentation



Identify, formulate, and solve engineering problems



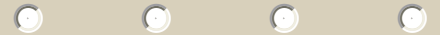
Use computer aided engineering and programming tools



Design an aircraft or spacecraft system, component, or mission to meet desired needs



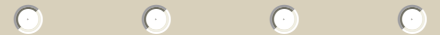
Understand the impact of engineering decisions on society and the environment



Understand professional and ethical responsibility



Recognize the need to continue professional development throughout one's career



**BS Applied Meteorology**  
**Usefulness to current job**

	<i>Very Useful</i>	<i>Useful</i>	<i>Not Very Useful</i>	<i>Not at all Useful</i>
Demonstrate knowledge of math and science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge and skills expected for the field of meteorology	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Analyze and Interpret data from modern meteorological datasets	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Skill in computer programming and applications	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Apply meteorology theory to generate a weather forecast	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Plan and implement a research project	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Communicate effectively	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand professional and ethical responsibility	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand contemporary issues in atmospheric science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**BS Applied Meteorology**  
**Rate ERAU preparation**

	<i>Very High Preparation</i>	<i>High Preparation</i>	<i>Moderate Preparation</i>	<i>Little Preparation</i>
Demonstrate knowledge of math and science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge and skills expected for the field of meteorology	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Analyze and Interpret data from modern meteorological datasets	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Skill in computer programming and applications	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Apply meteorology theory to generate a weather forecast	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Plan and implement a research project	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Communicate effectively	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand professional and ethical responsibility	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand contemporary issues in atmospheric science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**BS Aviation Business Administration**  
**Usefulness to current job**

	<i>Very Useful</i>	<i>Useful</i>	<i>Not Very Useful</i>	<i>Not at all Useful</i>
Understanding and having the ability to apply management theory and concepts within an organization	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understanding and having the ability to apply marketing concepts in business and/or in the creation of a strategic marketing plan	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understanding and having the ability to apply financial concepts in business decision making	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understanding and integrating knowledge of microeconomics into managerial decision making	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understanding and integrating knowledge of macroeconomics into national and international policy decision making	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understanding and having the ability to apply accounting concepts in business operations and/or managerial decision making	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Recognizing and considering ethical issues and social responsibility in managerial decision making	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understanding team member roles and experiencing team dynamics (challenges and opportunities), such that future team-based ventures can be confidently undertaken	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Recognizing legal issues and applying legal concepts in managerial decision making	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understanding the complexities associated with the aviation industry, from the perspective of an aviation and/or business professional	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understanding the challenges and opportunities associated with the global dimensions of business (including marketing, economics and management)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Utilizing technology, software (word processing, presentations, spreadsheets, website design, etc.) and information systems to create and communicate a message	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**BS Aviation Business Administration**  
**Rate ERAU preparation**

	<i>Very High Preparation</i>	<i>High Preparation</i>	<i>Moderate Preparation</i>	<i>Little Preparation</i>
Understanding and having the ability to apply management theory and concepts within an organization	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understanding and having the ability to apply marketing concepts in business and/or in the creation of a strategic marketing plan	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understanding and having the ability to apply financial concepts in business decision making	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understanding and integrating knowledge of microeconomics into managerial decision making	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understanding and integrating knowledge of macroeconomics into national and international policy decision making	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understanding and having the ability to apply accounting concepts in business operations and/or managerial decision making	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Recognizing and considering ethical issues and social responsibility in managerial decision making	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understanding team member roles and experiencing team dynamics (challenges and opportunities), such that future team-based ventures can be confidently undertaken	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Recognizing legal issues and applying legal concepts in managerial decision making	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understanding the complexities associated with the aviation industry, from the perspective of an aviation and/or business professional	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understanding the challenges and opportunities associated with the global dimensions of business (including marketing, economics and management)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Utilizing technology, software (word processing, presentations, spreadsheets, website design, etc.) and information systems to create and communicate a message	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

BS Computer Engineering Usefulness to current job				
	<i>Very Useful</i>	<i>Useful</i>	<i>Not Very Useful</i>	<i>Not at all Useful</i>
Apply knowledge of mathematics, science, and engineering	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Design and conduct experiments	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Analyze and interpret data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Design a computer system or component to meet desired needs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Implement computer programs and computational processes to meet desired needs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Function on multi-disciplinary teams	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Identify, formulate, and solve engineering problems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand professional and ethical responsibility	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Communicate effectively	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand the impact of engineering solutions in a global and societal context	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Engage in life-long learning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand contemporary issues in computer engineering	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Use modern engineering tools	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

BS Computer Engineering Rate ERAU preparation				
	<i>Very High Preparation</i>	<i>High Preparation</i>	<i>Moderate Preparation</i>	<i>Little Preparation</i>
Apply knowledge of mathematics, science, and engineering	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Design and conduct experiments	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Analyze and interpret data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Design a computer system or component to meet desired needs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Implement computer programs and computational processes to meet desired needs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Function on multi-disciplinary teams	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Identify, formulate, and solve engineering problems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand professional and ethical responsibility	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Communicate effectively	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand the impact of engineering solutions in a global and societal context	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Engage in life-long learning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand contemporary issues in computer engineering	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Use modern engineering tools	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



## BS Computer Science Usefulness to current job

	<i>Very Useful</i>	<i>Useful</i>	<i>Not Very Useful</i>	<i>Not at all Useful</i>
Understand and apply object-oriented programming concepts to the development of software modules	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand and apply algorithm design concepts and techniques to the design of software modules	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand and apply data structures theory to the design of software modules	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Apply theory of modularity, abstraction, and information hiding to the design of software systems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand the fundamental concepts of computer organization and architecture	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand the fundamental concepts of real-time computing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand the theory and use of operating systems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Apply software engineering concepts to specify, design, construct, and test a software product	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand the interrelationship between computer hardware and software fundamentals	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Apply scientific, mathematical, and engineering concepts, methods, and tools to the solution of software engineering problems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Use defined life-cycle engineering processes designed to produce software systems that meet functional, quality, economic, and schedule requirements	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand and appreciate an engineer's professional and ethical responsibilities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand and appreciate the importance of life-long learning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

## BS Computer Science Rate ERAU preparation

	<i>Very High Preparation</i>	<i>High Preparation</i>	<i>Moderate Preparation</i>	<i>Little Preparation</i>
Understand and apply object-oriented programming concepts to the development of software modules	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand and apply algorithm design concepts and techniques to the design of software modules	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand and apply data structures theory to the design of software modules	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Apply theory of modularity, abstraction, and information hiding to the design of software systems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand the fundamental concepts of computer organization and architecture	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand the fundamental concepts of real-time computing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand the theory and use of operating systems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Apply software engineering concepts to specify, design, construct, and test a software product	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand the interrelationship between computer hardware and software fundamentals	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Apply scientific, mathematical, and engineering concepts, methods, and tools to the solution of software engineering problems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Use defined life-cycle engineering processes designed to produce software systems that meet functional, quality, economic, and schedule requirements	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand and appreciate an engineer's professional and ethical responsibilities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand and appreciate the importance of life-long learning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

BS Electrical Engineering Usefulness to current job				
	<i>Very Useful</i>	<i>Useful</i>	<i>Not Very Useful</i>	<i>Not at all Useful</i>
Apply knowledge of mathematics, science, and engineering	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Design and conduct experiments	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Analyze and interpret data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Design a computer system or component to meet desired needs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Implement computer programs and computational processes to meet desired needs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Function on multi-disciplinary teams	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Identify, formulate, and solve engineering problems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand professional and ethical responsibility	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Communicate effectively	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand the impact of engineering solutions in a global and societal context	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Engage in life-long learning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand contemporary issues in electrical engineering	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Use techniques, skills, and modern engineering tools necessary for engineering practice	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Demonstrate depth within specific sub-areas of electrical engineering such as control, communications, systems, circuit design, etc.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

BS Electrical Engineering Rate ERAU preparation				
	<i>Very High Preparation</i>	<i>High Preparation</i>	<i>Moderate Preparation</i>	<i>Little Preparation</i>
Apply knowledge of mathematics, science, and engineering	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Design and conduct experiments	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Analyze and interpret data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Design a computer system or component to meet desired needs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Implement computer programs and computational processes to meet desired needs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Function on multi-disciplinary teams	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Identify, formulate, and solve engineering problems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand professional and ethical responsibility	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Communicate effectively	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand the impact of engineering solutions in a global and societal context	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Engage in life-long learning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand contemporary issues in electrical engineering	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Use techniques, skills, and modern engineering tools necessary for engineering practice	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Demonstrate depth within specific sub-areas of electrical engineering such as control, communications, systems, circuit design, etc.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**BS Global Security & Intelligence Studies**  
**Usefulness to current job**

	<i>Very Useful</i>	<i>Useful</i>	<i>Not Very Useful</i>	<i>Not at all Useful</i>
Capability to write in the clear and precise formats required in the Intelligence and Security Communities, both public and private.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to present oral briefings at a level comparable to those characteristic of the military, national security, intelligence, and corporate communities.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A strong capacity to think critically and imaginatively to interpret the implications of developments critical to the national and/or corporate security.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
To work effectively in teams on breaking issues, simulations and war gaming, emergency planning and management, and aviation security management.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Demonstrate basic oral competence and reading comprehension in a foreign language	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Capacity to perform criminal justice investigations and crime scene forensic examinations.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Demonstrate an understanding of the institutional and regulatory frameworks in the national security arenas, including aviation.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Demonstrate an overall knowledge of the Government of the United States, its Constitution and Laws.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Demonstrate an understanding of History, in its widest sense, as the foundational discipline for the study of international relations, U.S. Foreign Policy, and intelligence studies.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**BS Global Security & Intelligence Studies**  
**Rate ERAU preparation**

	<i>Very High Preparation</i>	<i>High Preparation</i>	<i>Moderate Preparation</i>	<i>Little Preparation</i>
Capability to write in the clear and precise formats required in the Intelligence and Security Communities, both public and private.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to present oral briefings at a level comparable to those characteristic of the military, national security, intelligence, and corporate communities.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A strong capacity to think critically and imaginatively to interpret the implications of developments critical to the national and/or corporate security.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
To work effectively in teams on breaking issues, simulations and war gaming, emergency planning and management, and aviation security management.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Demonstrate basic oral competence and reading comprehension in a foreign language	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Capacity to perform criminal justice investigations and crime scene forensic examinations.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Demonstrate an understanding of the institutional and regulatory frameworks in the national security arenas, including aviation.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Demonstrate an overall knowledge of the Government of the United States, its Constitution and Laws.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Demonstrate an understanding of History, in its widest sense, as the foundational discipline for the study of international relations, U.S. Foreign Policy, and intelligence studies.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**BS Interdisciplinary Studies****Usefulness to current job**

	<i>Very Useful</i>	<i>Useful</i>	<i>Not Very Useful</i>	<i>Not at all Useful</i>
Sufficient exposure to several areas of study, such as aeronautical science, business administration, and social sciences, to develop understanding of those disciplines beyond knowledge gleaned from General Education coursework	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand the intersection of disciplinary knowledge and develop the ability to conduct research demonstrating interdisciplinary methodologies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Develop an understanding of the complex history and culture of one or more world regions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Develop vocabulary and writing skills pertinent to particular communication contexts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Appreciate the complexity and magnitude of human production in the arts, such as graphic art, architecture, and literature, and to author analytical interpretations of those works	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Appreciate and understand human moral, religious, or philosophical thinking and belief systems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Garner skills and knowledge from a combination of minors that intersect with one another to form a coherent body of knowledge	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**BS Interdisciplinary Studies****Rate ERAU preparation**

	<i>Very High Preparation</i>	<i>High Preparation</i>	<i>Moderate Preparation</i>	<i>Little Preparation</i>
Sufficient exposure to several areas of study, such as aeronautical science, business administration, and social sciences, to develop understanding of those disciplines beyond knowledge gleaned from General Education coursework	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand the intersection of disciplinary knowledge and develop the ability to conduct research demonstrating interdisciplinary methodologies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Develop an understanding of the complex history and culture of one or more world regions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Develop vocabulary and writing skills pertinent to particular communication contexts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Appreciate the complexity and magnitude of human production in the arts, such as graphic art, architecture, and literature, and to author analytical interpretations of those works	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Appreciate and understand human moral, religious, or philosophical thinking and belief systems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Garner skills and knowledge from a combination of minors that intersect with one another to form a coherent body of knowledge	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**BS Mechanical Engineering**  
**Usefulness to current job**

	<i>Very Useful</i>	<i>Useful</i>	<i>Not Very Useful</i>	<i>Not at all Useful</i>
Knowledge of mathematics and physical science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of fundamental engineering sciences	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Design and conduct experiments	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Analyze and interpret experimental data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of machine design fundamentals	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of fluid mechanics, thermodynamics and the design of energy conversion systems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of robotic mechanisms, actuation and control	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of gas turbine engine systems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of circuits, electronics and instrumentation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Identify, formulate and solve engineering problems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Use computer aided design and programming tools	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Design a robotic or gas turbine system or component to meet desired needs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand the impact of engineering decisions on society and the environment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand professional and ethical responsibility	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Recognize the need to continue professional development through one's career	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**BS Mechanical Engineering**  
**Rate ERAU preparation**

	<i>Very High Preparation</i>	<i>High Preparation</i>	<i>Moderate Preparation</i>	<i>Little Preparation</i>
Knowledge of mathematics and physical science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of fundamental engineering sciences	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Design and conduct experiments	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Analyze and interpret experimental data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of machine design fundamentals	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of fluid mechanics, thermodynamics and the design of energy conversion systems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of robotic mechanisms, actuation and control	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of gas turbine engine systems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of circuits, electronics and instrumentation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Identify, formulate and solve engineering problems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Use computer aided design and programming tools	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Design a robotic or gas turbine system or component to meet desired needs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand the impact of engineering decisions on society and the environment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand professional and ethical responsibility	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Recognize the need to continue professional development through one's career	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

## BS Space Physics Usefulness to current job

	<i>Very Useful</i>	<i>Useful</i>	<i>Not Very Useful</i>	<i>Not at all Useful</i>
Apply knowledge of mathematics and science	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Design and conduct experiments	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Analyze and interpret data	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Identify, formulate, and solve scientific problems	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand professional and ethical responsibility	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Communicate effectively	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Recognize and engage in life-long learning	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of contemporary issues	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of classical mechanics	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of electricity and magnetism	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of space physics	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of quantum mechanics	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of planetary science	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of astrophysics	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

## BS Space Physics Rate ERAU preparation

	<i>Very High P repara tion</i>	<i>Useful</i>	<i>High P repara tion</i>	<i>Moder ate Pr eparati on</i>	<i>Little Prepara tion</i>
Apply knowledge of mathematics and science	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Design and conduct experiments	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Analyze and interpret data	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Identify, formulate, and solve scientific problems	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understand professional and ethical responsibility	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Communicate effectively	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Recognize and engage in life-long learning	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of contemporary issues	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of classical mechanics	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of electricity and magnetism	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of space physics	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of quantum mechanics	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of planetary science	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowledge of astrophysics	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>