

Program Specific Criteria

Worldwide

Undergraduate Programs

A.S. in Engineering Fundamentals

Admissions Criteria

In addition to meeting the Worldwide Campus admissions requirements (<https://catalog.erau.edu/admissions/undergraduate-applicants/>), applicants for admission must:

- Complete the English and Math Skills Assessments (<https://catalog.erau.edu/academic-policies-and-procedures/basic-skills/#worldwideonlinetext>) prior to admission to determine academic preparedness for entry into COMM 122 English Composition and MATH 241 Calculus and Analytical Geometry I.
- Current high school students and recent graduates under the age of 20 must meet established admissions requirements (<https://catalog.erau.edu/admissions/undergraduate-applicants/current-high-school-students/>) and demonstrate a 3.0 high school CGPA, with coursework that reflects 4 years of college preparatory mathematics and 2 years of college preparatory science, including a laboratory science.
- Transfer applicants must meet established admissions requirements (<https://catalog.erau.edu/admissions/undergraduate-applicants/transfer-students/>) and demonstrate a 2.5 cumulative grade point average (CGPA); transfer credit deemed equivalent to demonstrate academic preparedness for immediate entry into COMM 122 English Composition and MATH 241 Calculus and Analytical Geometry I, will be considered for admission into the program. Skills Assessment scores will be used for advising purposes if English and Math transfer credit demonstrates academic preparedness for admission into the program.

Students who fail to satisfy the guidelines for full admission may be considered for conditional admission under circumstances determined by the Admissions Office OR may be considered for admission into an alternate program. A written petition for admission, current resume and other supporting documentation may be requested for consideration of admission. Exceptions will be reviewed on a case by case basis.

Current Worldwide students requesting a change of program to the AS in Engineering Fundamentals must complete the English and Math Skills Assessments (<https://catalog.erau.edu/academic-policies-and-procedures/basic-skills/#worldwideonlinetext>) and demonstrate successful completion of at least 12 credit hours of Embry-Riddle coursework, achieving a minimum of a 2.5 cumulative grade point average (CGPA). Exceptions will be reviewed on a case by case basis.

B.S. in Engineering

Admissions Criteria

In addition to meeting the Worldwide Campus admissions requirements (<https://catalog.erau.edu/admissions/undergraduate-applicants/>), applicants for admission must:

- Complete the English and Math Skills Assessments (<https://catalog.erau.edu/academic-policies-and-procedures/basic-skills/#worldwideonlinetext>) prior to admission to determine academic preparedness for entry into COMM 122 English Composition and MATH 241 Calculus and Analytical Geometry I.
- Current high school students and recent graduates under the age of 20 must meet established admissions requirements (<https://catalog.erau.edu/admissions/undergraduate-applicants/current-high-school-students/>) and demonstrate a 3.0 high school CGPA, with

coursework that reflects 4 years of college preparatory mathematics and 2 years of college preparatory science, including a laboratory science.

- Transfer applicants must meet established admissions requirements (<https://catalog.erau.edu/admissions/undergraduate-applicants/transfer-students/>) and demonstrate a 2.5 cumulative grade point average (CGPA); transfer credit deemed equivalent to demonstrate academic preparedness for immediate entry into COMM 122 English Composition and MATH 241 Calculus and Analytical Geometry I, will be considered for admission into the program. Skills Assessment scores will be used for advising purposes if English and Math transfer credit demonstrates academic preparedness for admission into the program.

Students who fail to satisfy the guidelines for full admission may be considered for conditional admission under circumstances determined by the Admissions Office OR may be considered for admission into an alternate program. A written petition for admission, current resume and other supporting documentation may be requested for consideration of admission. Exceptions will be reviewed on a case by case basis.

Current Worldwide students requesting a change of program to the BS in Engineering, BS in Engineering Technology, BS in Mechanical Engineering, or BS in Software Engineering degree programs must demonstrate successful completion of the first year of the suggested plan of study (<https://catalog.erau.edu/programs/undergraduate/bachelors/engineering/#worldwideonlinetext>) in the AS in Engineering Fundamentals degree plan with a 2.5 GPA. Students may then work with their campus advisor to determine eligibility to add or change to the BS in Engineering, BS in Engineering Technology, BS in Mechanical Engineering, or BS in Software Engineering degree programs. Exceptions will be reviewed on a case by case basis.

B.S. in Engineering Technology

Admissions Criteria

In addition to meeting the Worldwide Campus admissions requirements (<https://catalog.erau.edu/admissions/undergraduate-applicants/>), applicants for admission must:

- Complete the English and Math Skills Assessments (<https://catalog.erau.edu/academic-policies-and-procedures/basic-skills/#worldwideonlinetext>) prior to admission to determine academic preparedness for entry into COMM 122 English Composition and MATH 241 Calculus and Analytical Geometry I.
- Current high school students and recent graduates under the age of 20 must meet established admissions requirements (<https://catalog.erau.edu/admissions/undergraduate-applicants/current-high-school-students/>) and demonstrate a 3.0 high school CGPA, with coursework that reflects 4 years of college preparatory mathematics and 2 years of college preparatory science, including a laboratory science.
- Transfer applicants must meet established admissions requirements (<https://catalog.erau.edu/admissions/undergraduate-applicants/transfer-students/>) and demonstrate a 2.5 cumulative grade point average (CGPA); transfer credit deemed equivalent to demonstrate academic preparedness for immediate entry into COMM 122 English Composition and MATH 241 Calculus and Analytical Geometry I, will be considered for admission into the program. Skills Assessment scores will be used for advising purposes if English and Math transfer credit demonstrates academic preparedness for admission into the program.

Students who fail to satisfy the guidelines for full admission may be considered for conditional admission under circumstances determined by the Admissions Office OR may be considered for admission into an alternate program. A written petition for admission, current resume and other supporting documentation may be requested for consideration of admission. Exceptions will be reviewed on a case by case basis.

Current Worldwide students requesting a change of program to the BS in Engineering, BS in Engineering Technology, BS in Mechanical

Engineering, or BS in Software Engineering degree programs must demonstrate successful completion of the first year of the suggested plan of study (<https://catalog.erau.edu/programs/undergraduate/bachelors/engineering-technology/#worldwideonlinetext>) in the AS in Engineering Fundamentals degree plan with a 2.5 GPA. Students may then work with their campus advisor to determine eligibility to add or change to the BS in Engineering, BS in Engineering Technology, BS in Mechanical Engineering, or BS in Software Engineering degree programs. Exceptions will be reviewed on a case by case basis.

B.S. in Mechanical Engineering

Admissions Criteria

In addition to meeting the Worldwide Campus admissions requirements (<https://catalog.erau.edu/admissions/undergraduate-applicants/>), applicants for admission must:

- Complete the English and Math Skills Assessments (<https://catalog.erau.edu/academic-policies-and-procedures/basic-skills/#worldwideonlinetext>) prior to admission to determine academic preparedness for entry into COMM 122 English Composition and MATH 241 Calculus and Analytical Geometry I.
- Current high school students and recent graduates under the age of 20 must meet established admissions requirements (<https://catalog.erau.edu/admissions/undergraduate-applicants/current-high-school-students/>) and demonstrate a 3.0 high school CGPA, with coursework that reflects 4 years of college preparatory mathematics and 2 years of college preparatory science, including a laboratory science.
- Transfer applicants must meet established admissions requirements (<https://catalog.erau.edu/admissions/undergraduate-applicants/transfer-students/>) and demonstrate a 2.5 cumulative grade point average (CGPA); transfer credit deemed equivalent to demonstrate academic preparedness for immediate entry into COMM 122 English Composition and MATH 241 Calculus and Analytical Geometry I, will be considered for admission into the program. Skills Assessment scores will be used for advising purposes if English and Math transfer credit demonstrates academic preparedness for admission into the program.

Students who fail to satisfy the guidelines for full admission may be considered for conditional admission under circumstances determined by the Admissions Office OR may be considered for admission into an alternate program. A written petition for admission, current resume and other supporting documentation may be requested for consideration of admission. Exceptions will be reviewed on a case by case basis.

Current Worldwide students requesting a change of program to the BS in Engineering, BS in Engineering Technology, BS in Mechanical Engineering, or BS in Software Engineering degree programs must demonstrate successful completion of the first year of the suggested plan of study (<https://catalog.erau.edu/programs/undergraduate/bachelors/mechanical-engineering/#worldwideonlinetext>) in the AS in Engineering Fundamentals degree plan with a 2.5 GPA. Students may then work with their campus advisor to determine eligibility to add or change to the BS in Engineering, BS in Engineering Technology, BS in Mechanical Engineering, or BS in Software Engineering degree programs. Exceptions will be reviewed on a case by case basis.

B.S. in Software Engineering

Admissions Criteria

In addition to meeting the Worldwide Campus admissions requirements (<https://catalog.erau.edu/admissions/undergraduate-applicants/>), applicants for admission must:

- Complete the English and Math Skills Assessments (<https://catalog.erau.edu/academic-policies-and-procedures/basic-skills/#worldwideonlinetext>) prior to admission to determine academic preparedness for entry into COMM 122 English Composition and MATH 241 Calculus and Analytical Geometry I.

- Current high school students and recent graduates under the age of 20 must meet established admissions requirements (<https://catalog.erau.edu/admissions/undergraduate-applicants/current-high-school-students/>) and demonstrate a 3.0 high school CGPA, with coursework that reflects 4 years of college preparatory mathematics and 2 years of college preparatory science, including a laboratory science.
- Transfer applicants must meet established admissions requirements (<https://catalog.erau.edu/admissions/undergraduate-applicants/transfer-students/>) and demonstrate a 2.5 cumulative grade point average (CGPA); transfer credit deemed equivalent to demonstrate academic preparedness for immediate entry into COMM 122 English Composition and MATH 241 Calculus and Analytical Geometry I, will be considered for admission into the program. Skills Assessment scores will be used for advising purposes if English and Math transfer credit demonstrates academic preparedness for admission into the program.

Students who fail to satisfy the guidelines for full admission may be considered for conditional admission under circumstances determined by the Admissions Office OR may be considered for admission into an alternate program. A written petition for admission, current resume and other supporting documentation may be requested for consideration of admission. Exceptions will be reviewed on a case by case basis.

Current Worldwide students requesting a change of program to the BS in Engineering, BS in Engineering Technology, BS in Mechanical Engineering, or BS in Software Engineering degree programs must demonstrate successful completion of the first year of the suggested plan of study (<https://catalog.erau.edu/programs/undergraduate/bachelors/software-engineering/#worldwideonlinetext>) in the AS in Engineering Fundamentals degree plan with a 2.5 GPA. Students may then work with their campus advisor to determine eligibility to add or change to the BS in Engineering, BS in Engineering Technology, BS in Mechanical Engineering, or BS in Software Engineering degree programs. Exceptions will be reviewed on a case by case basis.

Engineering Fundamentals Certificate

Admissions Criteria

In addition to meeting the Worldwide Campus admissions requirements (<https://catalog.erau.edu/admissions/undergraduate-applicants/>), applicants for admission must:

- Complete the Math Skills Assessments (<https://catalog.erau.edu/academic-policies-and-procedures/basic-skills/#worldwideonlinetext>) prior to admission to determine academic preparedness for entry into MATH 241 Calculus and Analytical Geometry I.
- Current high school students and recent graduates under the age of 20 must meet established admissions requirements (<https://catalog.erau.edu/admissions/undergraduate-applicants/current-high-school-students/>) and demonstrate a 3.0 high school CGPA, with coursework that reflects 4 years of college preparatory mathematics and 2 years of college preparatory science, including a laboratory science.
- Transfer applicants must meet established admissions requirements (<https://catalog.erau.edu/admissions/undergraduate-applicants/transfer-students/>) and demonstrate a 2.5 cumulative grade point average (CGPA); transfer credit deemed equivalent to demonstrate academic preparedness for immediate entry into MATH 241 Calculus and Analytical Geometry I, will be considered for admission into the program. Skills Assessment scores will be used for advising purposes if Math transfer credit demonstrates academic preparedness for admission into the program.

Students who fail to satisfy the guidelines for full admission may be considered for conditional admission under circumstances determined by the Admissions Office OR may be considered for admission into an alternate program. A written petition for admission, current resume and

other supporting documentation may be requested for consideration of admission. Exceptions will be reviewed on a case by case basis.

Current Worldwide students requesting a change of program to the Engineering Fundamentals Certificate must complete the Math Skills Assessments (<https://catalog.erau.edu/academic-policies-and-procedures/basic-skills/#worldwideonlinetext>). Exceptions will be reviewed on a case by case basis.

Graduate Programs

M.S. in Aerospace Engineering

Admissions Criteria

Applicants for admission to the MSAE Degree Program must meet the following criteria:

- Provide evidence of an undergraduate Bachelor of Science degree in Aeronautical or Aerospace Engineering, or equivalent with a cumulative grade point average (CGPA) of 3.0 or higher, on a 4.0 scale. If earned in the United States, the degree must be from an ABET-accredited program (accredited by the Engineering Accreditation Commission, EAC). Applicants with graduate coursework must meet the established graduate transfer CGPA. Students with a Bachelor of Science or equivalent degree in other engineering disciplines, who otherwise meet the requirements for full admission, may also be admitted to the MSAE program.
- The Graduate Records Examination (GRE) is required.
- Submit (2) letters of recommendation. One letter is required from a professional contact. If you graduated within the last two years, (1) letter must be from a recent instructor, which can also serve as a professional contact.
 - Applicants may utilize the following link to access the Graduate Program Recommendation Form (<https://webforms.erau.edu/private/student-services/recommendation/>).

Note: Graduates of Embry-Riddle Aeronautical University receiving an engineering (ABET EAC – accredited) degree with at least a 3.2 undergraduate GPA may be excused from the GRE and Statement of Objectives requirements.

EXCEPTIONS: Applicants who fail to satisfy the guidelines for full admission may be considered for conditional admission under circumstances determined by the Admissions Office or Program Chair. Applicants will be required to submit the following documentation in addition to official transcripts:

- Submit a current resume outlining your education, work experience, special activities and awards.
- Prepare a type-written Statement of Objectives, demonstrating strong capacity for written communication and elucidating the following topic areas:
 - A description of the applicant's reasons for wishing to do graduate work in the field chosen.
 - A description of the applicant's interests and background.
 - A description of the applicant's long-term professional goals, defining how Embry-Riddle's MSAE program supports those interests and goals.

M.S. in Airworthiness Engineering / Airworthiness Engineering Certificate

Admissions Criteria

Official transcript(s) from the accredited degree conferring institution(s) and transcripts reflecting graduate level coursework.

- Applicants must possess a Bachelor of Science degree in Physics, Math, OR an ABET accredited (EAC) Engineering degree; exceptions to this will be reviewed on a case-by-case basis.

- Applicants must demonstrate a cumulative grade point average (CGPA) of 3.0 or higher on a 4.0 scale, at the undergraduate and graduate levels.

Submit (2) letters of recommendation. One letter is required from a professional contact. If you graduated within the last two years, (1) letter must be from a recent instructor, which can also serve as a professional contact.

- Applicants may utilize the following link to access the Graduate Program Recommendation Form (<https://webforms.erau.edu/private/student-services/recommendation/>).

EXCEPTIONS: Applicants who fail to satisfy the guidelines for full admission may be considered for conditional admission under circumstances determined by the Admissions Office or Program Chair. Applicants will be required to submit the following documentation in addition to official transcripts:

- Resume outlining work experience, education, relevant activities and awards
- A type-written Statement of Objectives, demonstrating a strong capacity for written communication and addressing the following topic areas-
 - The applicant's understanding, in their own words, of what Airworthiness Engineering entails.
 - The applicant's background and exposure to engineering to-date, in both their academic and professional career.
 - A statement of the particular MSAWE electives the applicant intends to pursue (Structures, Systems, or Management) and a discussion of why this election was made.
 - An explanation of the applicant's overall academic and career objectives, including how the applicant believes that the MSAWE program will positively contribute to the achievement of stated goals.

Current students requesting to transfer into the MSAWE program will be required to meet the same program requirements stated above.

M.S. in Occupational Safety Management

Prerequisite Knowledge

Subject knowledge for a specific graduate course must be satisfied before enrollment in that course is permitted. Students may enroll in graduate level courses only if they meet prerequisite knowledge requirements.

Applicants for admission to the Master of Science in Occupational Safety Management (MSOSM) (<https://catalog.erau.edu/programs/graduate/masters/occupational-safety-management/>) program must have prerequisite knowledge in the following areas:

- College algebra (or higher) and at least one college-level course in chemistry or biology or physics.

Students should assume responsibility to see that prerequisites are satisfied. The prerequisite subject knowledge for a specific graduate course must be satisfied before enrollment in that specific course is permitted. Students may enroll in other graduate-level courses as they meet any specific prerequisite knowledge required.

The prerequisite knowledge can be validated through one of the following:

- Completed an undergraduate or graduate course in each of the specific subject areas and upon validation of the course from an official transcript; **-OR-**
- Completed a course listed in either the National or ACE Guide for which academic credit in one of the specific subject areas is recommended; **-OR-**
- Received at least the minimum recommended score on a CLEP, DSST/DANTES, PEP, etc. exam in each of the subject areas as required.

4 Program Specific Criteria

To view the graduate certificate in Occupational Safety Management program, click here (<https://catalog.erau.edu/programs/graduate/gr-cert/occ-safety-management/>).

M.S. in Space Systems

Admissions Criteria

In addition to the established admissions requirements, applicants for admission to the Master of Science in Space Systems degree program must meet the following criteria:

- Provide evidence of an undergraduate STEM degree. STEM field of study is a field of study *"included in the Department of Education's Classification of Instructional Programs (CIP) taxonomy within the 2-digit series containing engineering, biological sciences, mathematics, and physical sciences, or a related field. In general, related fields will include fields involving research, innovation, or development of new technologies using engineering, mathematics, computer science, or natural sciences (including physical, biological, and agricultural sciences)."*

EXCEPTIONS: Applicants with degrees from all other disciplines may be considered for conditional admission under circumstances determined by the Admissions Office and/or Program Coordinator. Conditions of admission will be determined on a case-by-case basis.

M.S. in Systems Engineering

Admissions Criteria

Applicants and students requesting an internal transfer to MSSYSE should meet the following criterion-

- Applicant has successfully completed an equivalent to both MATH 242 and STAT 211/STAT 222 and have a 3.0 CGPA or higher in their undergraduate program.
- Submit (2) letters of recommendation. One letter is required from a professional contact. If you graduated within the last two years, (1) letter must be from a recent instructor, which can also serve as a professional contact.
- Applicants may utilize the following link to access the Graduate Program Recommendation Form (<https://webforms.erau.edu/private/student-services/recommendation/>).
- Any applicants with graduate coursework must meet the established graduate transfer CGPA as well.

NOTE: Applicants who fail to satisfy the guidelines for full admission may be considered for conditional admission under circumstances determined by the Admissions Office or Program Chair. Applicants not meeting the MATH 242 and STAT 211/STAT 222 requirement specifically, must successfully complete SYSE 515 prior to enrolling in MSSYSE core courses if accepted under conditional terms. The candidate will be notified of academic conditions of admission, including specific information on required course prerequisites, at the time a decision is rendered. Students granted custom conditional admission must adhere to the individual terms outlined in their letter of admission and will remain on conditional status until they have satisfied the terms of their conditional admission.