

Standing Requirements

Program Mission Statement

MSA Mission Statement

The purpose of the Master of Science in Aeronautics degree is to provide the highest quality graduate level education that meets--or exceed--the needs of the aviation industry and our graduate students.

The philosophy of the Master of Science in Aeronautics is to continually advance the curriculum to meet the needs of the rapidly changing aviation environment. This occurs through the program's utilization of professors who are experts in their specific disciplines, working to advance the field of aviation through research and scholarship.

Our goal is to maintain a leadership role in aviation-focused graduate studies through excellence, not adequacy, and we will achieve this goal by constantly improving our curriculum to meet the needs of the rapidly changing aviation environment and by utilizing only faculty who are masters in their specific disciplines. The degree provides unequaled opportunity for students to enhance their knowledge and pursue additional opportunities in the areas of unmanned aircraft systems, space studies, air traffic control, aviation education, flight crew members, flight operations specialists, and industry managers and aviation technical representatives.

Our vision is to ensure our graduates are prepared for success in their careers and that they will look back on their time with us as a positive life-changing experience. This program enables aviation/aerospace students to master the application of concepts, technology, methods, and tools used in the development, manufacture, and operation of aircraft and spacecraft, as well as the public and business infrastructure that support them. To be the best of the best, we will work constantly to improve our reputation with potential employers and to earn the respect of our students, the academic community, and the aviation industry.

The intent of the Master of Science in Aeronautics program is to accomplish its mission by:

- serving the student body, department, college, and external community in support of the university's overall mission
- recruiting and retaining highly qualified faculty
- maintaining strong working relationships within the aviation industry to ensure the relevance of curriculum and to promote job opportunities for graduates
- utilizing assessment techniques to continuously improve the curriculum to meet the dynamic needs of the aviation industry
- using quality control systems within the degree that will ensure graduates will have the knowledge, skills, and attitudes essential to success in their professional careers.

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Form: "ERAU Alignment to University Mission"

Created with : Taskstream

Participating Area: WW_MS Aeronautics

ERAU University Mission Statement

Embry-Riddle Aeronautical University is the world leader in aviation and aerospace higher education. Our mission is to teach the science, practice and business of aviation and aerospace, preparing students for productive careers and leadership roles in business, government agencies and the military. Embry-Riddle's reputation as a leader in aviation and aerospace higher education is grounded in its aviation roots dating back to 1926.

(REQUIRED) Program Alignment to University Mission

Program Alignment to University Mission

Select all that apply.

Our mission is to:

- 1. Teach the science, practice and business of aviation and aerospace
- 2. Prepare students for productive careers
- 3. Prepare students for leadership roles in business, government agencies, or military

WW_MS Aeronautics

MSA Curriculum Map July 2020

Courses and Activities Mapped to WW MS Aeronautics AABI 4.3 (New as of 01072018)

	Outcome											
	WW_MSA_AABI_4.3.a Apply mathematics, science, and applied sciences at a level appropriate to aviation-related disciplines at the master's level, including an adequate foundation in statistics. (ABBI 4.3.a)	WW_MSA_AABI_4.3.b Analyze and interpret data at the master's level. (ABBI 4.3.b)	WW_MSA_AABI_4.3.c Work effectively on multi-disciplinary and diverse teams. (ABBI 4.3.c)	WW_MSA_AABI_4.3.d Make professional and ethical decisions. (ABBI 4.3.d)	WW_MSA_AABI_4.3.e Communicate effectively, using both written and oral communication skills. (ABBI 4.3.e)	WW_MSA_AABI_4.3.f Engage in and recognize the need for life-long learning. (ABBI 4.3.f)	WW_MSA_AABI_4.3.g Assess contemporary issues. (ABBI 4.3.g)	WW_MSA_AABI_4.3.h Use the techniques, skills, and modern technology necessary for professional practice. (ABBI 4.3.h)	WW_MSA_AABI_4.3.i Assess the national and international aviation environment. (ABBI 4.3.i)	WW_MSA_AABI_4.3.j Apply pertinent knowledge in identifying and solving problems. (ABBI 4.3.j)	WW_MSA_AABI_4.3.k Apply knowledge of business sustainability to aviation issues. (ABBI 4.3.k)	WW_MSA_AABI_4.3.l Apply advanced qualitative and quantitative problem-solving skills. (ABBI 4.3.l)
Courses and Learning Activities												
RSCH 665 Statistics Exam	X	X		P	P	P	P	X	P	X	P	X
ASCI 516 CRM Project	P	P		P	X	P	X	X	X	M	P	I
ASCI 645 Airport project	P	X		P	X	P	X	X	X	X	X	I
ASCI 604 Aviation Human Factors Project	X	X		P	X	X	X	X	X	X	X	I
ASCI602 Aviation Industry project	X	P	X	P	X	P	P	P	P	M	M	I
ASCI 674 Project Management Project in Aviation	X	X		P	P	P	P	X	P	X	X	I
ASCI 693 Research Problems in the Aerospace Industry	X	X	X	X	X	X	X	X	X	X	M	X
Legend : I Introduced P Practiced M Mastered X Aligned												

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WW_MS Aeronautics

WW_MSA AABI 4.3 Assessment Schedule

Courses and Activities Mapped to WW MS Aeronautics AABI 4.3 (New as of 01072018)

	Outcome											
	WW_MSA_AABI_4.3.a Apply mathematics, science, and applied sciences at a level appropriate to aviation-related disciplines at the master's level, including an adequate foundation in statistics. (ABBI 4.3.a)	WW_MSA_AABI_4.3.b Analyze and interpret data at the master's level. (ABBI 4.3.b)	WW_MSA_AABI_4.3.c Work effectively on multi-disciplinary and diverse teams. (ABBI 4.3.c)	WW_MSA_AABI_4.3.d Make professional and ethical decisions. (ABBI 4.3.d)	WW_MSA_AABI_4.3.e Communicate effectively, using both written and oral communication skills. (ABBI 4.3.e)	WW_MSA_AABI_4.3.f Engage in and recognize the need for life-long learning. (ABBI 4.3.f)	WW_MSA_AABI_4.3.g Assess contemporary issues. (ABBI 4.3.g)	WW_MSA_AABI_4.3.h Use the techniques, skills, and modern technology necessary for professional practice. (ABBI 4.3.h)	WW_MSA_AABI_4.3.i Assess the national and international aviation environment. (ABBI 4.3.i)	WW_MSA_AABI_4.3.j Apply pertinent knowledge in identifying and solving problems. (ABBI 4.3.j)	WW_MSA_AABI_4.3.k Apply knowledge of business sustainability to aviation issues. (ABBI 4.3.k)	WW_MSA_AABI_4.3.l Apply advanced qualitative and quantitative problem-solving skills. (ABBI 4.3.l)
Cycle Years												
2018/2019 Assessment Cycle							✓	✓				✓
2019/2020 Assessment Cycle			✓	✓						✓		
2020-2021 Assessment Cycle					✓	✓			✓			
2021-2022 Assessment Cycle	✓	✓									✓	
2022-2023 Assessment Cycle							✓	✓				✓
Legend :	✓ = Aligned											

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