



AERONAUTICS

2023-24 STUDY GUIDE

About this degree option

The Master of Science in aeronautics degree provides a flexible learning style for students who are also working professionals. Courses will be taught by professionals working in the industry and university faculty members. The graduate degree has both a thesis and a non-thesis option. The thesis option for those interested in continuing to a Ph.D. program and the non-thesis option for those who are completing their studies at the master degree level.

Why this degree options?

K-State Salina offers a variety of advantages, including:

- Focus on current industry needs and gain the knowledge required to define, research and solve emerging aerospace challenges.
- Choose between two options of study - Aerospace Certification or Leadership and Policy
- A program designed by professionals for professionals in the aerospace industry.

Careers

Career options for Master of Science in Aeronautics graduates include, but are not limited to:

- Designated Airworthiness Representative
- Product Certification Specialist/Analyst
- FAA Designee
- Chief Operating Officer
- Director of Operations and/or Safety
- Policymaker in Aviation Operations

Accreditation

We take our reputation seriously. Accreditation validates the quality of an institution as a whole, offering evaluated measurements of everything from academic offerings, governance, administration, mission, finances and resources. Kansas State University has been continuously accredited by the Higher Learning Commission (HLC) since 1916.

k-state.edu/assessment/accreditation

Master of Science

30 credit hours required

No more than 9 credits of 600 level courses can be taken. Other technical courses may be substituted upon approval (15 credits).

Required coursework

Degree Requirements:

AVT 611	Aviation Regulation & Certification	3
COT 701	Advanced Technical Communication	3
AVT 707	Research Methods	3
	Total	9

Aerospace Certification Option:

AVT 703	Project Management for Aerospace Professional	3
AVT 722	Aircraft Type Certification	3
AVT 734	Advanced Aircraft Certification	3
AVT 744	Aviation Human Factors Analysis and Design	3
AVT 841	Aerospace Safety Management Systems	3
	Total	15

Aerospace Leadership and Policy Option:

COT 704	Managerial Finances, Metrics, and Analytics	3
AVT 751	Aerospace Policy Leadership in the Aerospace Sector	3
AVT 771	Technical Elective from list below	3
	Technical Elective from list below	3
	Total	15

Electives:

AVT 703	Project Management for Aerospace Professionals	3
COT 704	Managerial Finances, Metrics, and Analytics	3
COT 720	Application of Lean Six Sigma Methods	3
AVT 722	Aircraft Type Certification	3
AVT 734	Aircraft Production Certification	3
AVT 744	Aviation Human Factors Analysis and Design	3
AVT 751	Aerospace Policy	3
AVT 790	Aerospace Topics	3
AVT 799	Advanced Topics in Aeronautics	3

Thesis/Capstone Requirement*:

Choose 3 credit hours from the following courses.		
AVT 838	MSA Thesis	3-6
AVT 836	Master of Science in Aeronautics Capstone Project (Non-thesis students)	3

*Non-thesis students will be required to enroll in an additional elective to reach the totally 30 credit hours needed for this degree.