

Master of Science in Aerospace Business Analytics

The Master of Science in Aerospace Business Analytics combines knowledge and skills across the science, practice and business of aviation and aerospace. The degree applies the science of operations management, the study of economic models that guide business decision making and introduction to the analytical tools that more than ever drive the daily business activities and corporate strategy in the aviation and aerospace marketplace. The degree brings together a series of classes combining analytical skills with aviation and aerospace operational and quantitative knowledge that will provide a distinctive educational experience for the student not found in other industry focused degree programs. The specializations offered allow the students to add focus to their studies and as applicable earn recognized industry certificates to further support their skill set.

Admissions Criteria

Students will:

- Apply business analytics skills across the airline, aerospace, and air transportation industries.
- Analyze the business ethical environment and apply ethical reasoning.
- Use appropriate qualitative and quantitative techniques to solve and defend business problems.

Core

BA 511	Operations Research	3
BA 523	Advanced Aviation Economics	3
BA 530	Business Analytics for Managers	3
or BUAN 522	Business Analytics, Social Network and Web Analytics	
BA 603	Aerospace Production and Operations Management	3
or BA 630	Aviation/Aerospace Systems Analysis	
BA 612	Data Analytics for Aviation Business	3
FIN 620	Air Transport Econometric Modeling	3
Total Credits		18

Capstone: Project, Industry Project or Internship

BA 699	Special Topics in Business Administration	3-6
	or CEBA 696 Co-op Ed Business Administration	

Specializations

Aerospace Specialization		9-12
BA 600	Commercial Spaceport Planning and Operations	
BA 603	Aerospace Production and Operations Management	
or BA 630	Aviation/Aerospace Systems Analysis	
or BA 673	Lean Six Sigma in Aviation and Aerospace	
BA 609	Airline Operations and Management	
or BA 610	Airline Optimization and Simulation Systems	
BA/FIN Elective		
Business Intelligence and Analytics Specialization		9-12
BA 600	Commercial Spaceport Planning and Operations	
BUAN 505	Information Analytics and Visualization in Decision Making	

BUAN 523	Data Mining for Business Analytics	
BUAN 524	Applied Business Intelligence and Analytics	
Finance Specialization		9-12
FIN 518	Managerial Finance	
FIN 623	Aircraft Funding Legal and Financial Analysis	
FIN 624	Aircraft Transaction and Risk Modeling	
BA/FIN Elective		
If NOT selecting a Specialization, students may take 9-12 credit hours from the following list of courses		9-12
BA 600	Commercial Spaceport Planning and Operations	
BA 603	Aerospace Production and Operations Management	
BA 609	Airline Operations and Management	
BA 610	Airline Optimization and Simulation Systems	
BA 630	Aviation/Aerospace Systems Analysis	
BA 673	Lean Six Sigma in Aviation and Aerospace	
FIN 518	Managerial Finance	
FIN 623	Aircraft Funding Legal and Financial Analysis	
FIN 624	Aircraft Transaction and Risk Modeling	
BUAN 505	Information Analytics and Visualization in Decision Making	
BUAN 523	Data Mining for Business Analytics	
BUAN 524	Applied Business Intelligence and Analytics	
BA/FIN Elective		
Total Credits Required		33