

M.S. in Aerospace Business Analytics

At the **Daytona Beach Campus**, the Master of Science in Aerospace Business Analytics is designed to help students become leaders in the aerospace industry by leveraging the power of data. This program combines business, science and math to tackle real-world challenges faced by airlines, airports, aircraft manufacturers and aerospace firms. This degree equips students with skills to make informed decisions using tools like Python, R and @RISK. Students will explore optimization, decision-making and machine learning techniques while learning about aerospace applications such as RASM, CASM, load factor and yield.

Program-Level Student Learning Outcomes

Students will:

- Apply business analytics skills across the airline, aerospace, and air transportation industries.
- Apply quantitative skills across the airline, aerospace, and air transportation industries.
- Integrate business models with analytical tools to demonstrate proficiency in data analysis methods and procedures.
- Construct and interpret econometric models for application in the air transport and aerospace industries.

Daytona Beach Program Requirements

Core Requirements	18
Capstone	3-6
Specializations	9-12
Total Credits	33

Core Requirements

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

Capstone

Project, Industry Project or Internship

BUAN 699	Special Topics in Business Analytics	1-6
BUSA 699	Special Topics in Business Administration	1-6
COIN 696	Graduate Internship	1-3
Total Credits		3-6

Specializations

Aerospace

AVMG 600	Commercial Spaceport Planning and Operations	3
SCLM 603	Aerospace Production and Operations Management	3
or AVMG 630	Aviation/Aerospace Systems Analysis	
or SCLM 673	Lean Six Sigma in Aviation and Aerospace	
AVMG 610	Airline Operations and Management	3

or BUAN 610	Airline Optimization and Simulation Systems	
BUAN/BUSA/FINE Elective		3
Total Credits		9-12

Business Intelligence and Analytics

AVMG 600	Commercial Spaceport Planning and Operations	3
BUAN 505	Information Analytics and Visualization in Decision Making	3
BUAN 523	Data Mining for Business Analytics	3
BUAN 524	Applied Business Intelligence and Analytics	3
Total Credits		9-12

Finance

FINE 520	Managerial Finance	3
FINE 623	Aircraft Funding Legal and Financial Analysis	3
FINE 624	Aircraft Transaction and Risk Modeling	3
FINE 625	Business Aircraft Transactions, Financing, and Risk Modeling	3
BUAN/BUSA/FINE Elective		
Total Credits		9-12

Elective

If NOT selecting a Specialization, students may take 9-12 credit hours from the following list of courses:

AVMG 600	Commercial Spaceport Planning and Operations	3
SCLM 603	Aerospace Production and Operations Management	3
AVMG 610	Airline Operations and Management	3
BUAN 610	Airline Optimization and Simulation Systems	3
AVMG 630	Aviation/Aerospace Systems Analysis	3
SCLM 673	Lean Six Sigma in Aviation and Aerospace	3
FINE 520	Managerial Finance	3
FINE 623	Aircraft Funding Legal and Financial Analysis	3
FINE 624	Aircraft Transaction and Risk Modeling	3
FINE 625	Business Aircraft Transactions, Financing, and Risk Modeling	3
BUAN 505	Information Analytics and Visualization in Decision Making	3
BUAN 523	Data Mining for Business Analytics	3
BUAN 524	Applied Business Intelligence and Analytics	3
BUAN/BUSA/FINE Elective		3
Total Credits		9-12

Suggested Plan of Study

Year One

Requirements	Credits
SCLM 511 - Operations Research	3
BUAN 530 - Business Analytics for Managers or 522 - Business Analytics, Social Network and Web Analytics	3
Elective or No Class	0-3
Semester Hours	6-9

Requirements	Credits
ECON 523 - Advanced Aviation Economics	3
BUAN 612 - Data Analytics for Aviation Business	3

SCLM 603 - Aerospace Production and Operations Management or AVMG 630 - Aviation/Aerospace Systems Analysis	3
Semester Hours	9

Requirements	Credits
Summer Internship or No Class	0-3
Semester Hours	0-3

Total Credits

Total Hours for All Requirements: 15-21

Year Two

Requirements	Credits
ECON 620 - Air Transport Econometric Modeling	3
Elective	3
Semester Hours	6

Requirements	Credits
Elective	3
Elective	3
Capstone or Special Topic	3
Semester Hours	9

Total Credits

Total Hours for All Requirements: 15