



ONLINE AEROSPACE AND DEFENSE ANALYTICS GRADUATE CERTIFICATE

LEAD THE STRATEGIC DIRECTION OF AEROSPACE
& DEFENSE BUSINESS

DELIVERY FORMAT

100% Online

TIME TO COMPLETE

6 months

CREDIT HOURS

12

TIME COMMITMENT

10 to 20 Hours Weekly

START DATES

Fall, Spring

COST

The online Aerospace and Defense Analytics graduate certificate offers a high return on investment. You'll gain knowledge and skills that prepare you to successfully use data and analysis to drive decision-making in aerospace and defense, as well as the potential for increased pay in the field. Tuition and fees for the program are \$26,580 (\$2,215 per credit hour). Books and materials are included. There is no application fee or deposit for this certificate.

AT A GLANCE

The online Aerospace and Defense Analytics graduate certificate prepares professionals in business, aerospace, and defense with the skills to manage the quality and security of sensitive data and leverage that data to guide the strategic direction of new ventures or established organizations.

Offered through the AACSB–accredited OU Price College of Business, the Aerospace and Defense Analytics certificate is built for ambitious professionals who are ready to lead, innovate, and accelerate their careers.

To learn more about this certificate, connect with Michelle Brown, Associate Director, Executive Program in Aerospace & Defense at [https://calendly.com/michelleoumba](#).

ABOUT THIS DEGREE

The aerospace and defense landscape is transforming quickly as emerging technologies, shifting global dynamics, and the push for innovative leadership redefines the industry.

The University of Oklahoma’s online Aerospace and Defense Analytics Graduate Certificate is a 12–credit–hour program designed to equip professionals for careers at the interface of managerial and leadership positions that require an understanding of how data, analytics, and effective management impacts the execution of aerospace and defense business and projects.

Delivered through OU’s AACSB–accredited Price College of Business, the curriculum consists of six business courses specific to the aerospace and defense industry that empower students to deepen their analytical expertise, support mission–critical initiatives, and apply integrative thinking across aerospace, defense, and business functions.

Students explore topics such as data analytics for aerospace and defense, cybersecurity, and data management, gaining practical tools to strategically lead and innovate in management positions within the aerospace and defense industry. Whether you work in business, aerospace, or defense, this flexible, 100% online certificate prepares you to accelerate your career.

In addition, the 12 credit hours you earn through the Aerospace and Defense Analytics certificate are fully transferable to OU’s EMBA in Aerospace & Defense degree program, allowing you to build momentum now and potentially shorten the time required to complete your master’s degree if you choose to continue.

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PROGRAM OUTCOMES

TO APPLY: [HTTPS://ONLINE.OU.EDU/PROGRAM/CERTIFICATE-IN-AEROSPACE-AND-DEFENSE-ANALYTICS-GRADUATE/](https://online.ou.edu/program/certificate-in-aerospace-and-defense-analytics-graduate/)

FOR MORE INFO: [HTTPS://ONLINE.OU.EDU/PROGRAM/CERTIFICATE-IN-AEROSPACE-AND-DEFENSE-ANALYTICS-GRADUATE/](https://online.ou.edu/program/certificate-in-aerospace-and-defense-analytics-graduate/)

COURSE DETAILS

The Aerospace and Defense Analytics graduate certificate features a focused curriculum that explores a wide range of topics including data analytics, cybersecurity, project management, and using data to guide decision-making. Whether you're engaged in hands-on data analysis or developing data-driven strategies for an organization, this curriculum provides insight and practical tools that help you navigate and lead in the dynamic aerospace and defense industry.

Core Courses

- Quantitative Methods & Models for Aerospace & Defense (2 credit hours)
- Data Analytics for Aerospace & Defense (2)

Elective Courses (Choose 4)

- Information Technology and Cyber Security in Aerospace & Defense (2)
- Project Management for Aerospace and Defense (2)
- Field Project in Aerospace & Defense (Analysis) (2)
- Lean Six Sigma Tools for Aerospace & Defense (2)
- Data Management and Security in Aerospace & Defense (2)

Expand each course below to view more about the topics covered and how they prepare you for leadership in aerospace and defense analytics.

COURSE STRUCTURE

You'll earn 12 credit hours across six courses. All courses are 2 credit hours and last for 8 weeks. You can expect a time commitment of 10–20 hours on average per week for the two courses. All courses are synchronous and require live attendance. Live sessions are taught on Tuesdays and Thursdays from 7 to 9 p.m. CT and may include guest speakers. The class gathers online at the same time to hold discussions. Sessions prepare participants to communicate with each other and faculty between classes regarding assignments. These sessions are recorded, so participants may watch the lectures and discussions at their convenience and as often as needed to master the content.

CORE COURSES (4 HOURS)

Quantitative Methods & Models for Aerospace & Defense

Credit Hours: 2

This course focuses on understanding and applying quantitative methods and models in the context of Aerospace & Defense (A&D). The course content is organized around three modules: summarizing quantitative data, relating and comparing data, and predicting outcomes based on sample data. The topics covered in these modules include descriptive statistics, associative statistics, regression, multiple regression, and inferential statistics.

Data Analytics for Aerospace & Defense

Credit Hours: 2

Data analytics is becoming increasingly important for every industry, and it is especially important in the aerospace and defense (A&D) industry. The objective of this course is to provide a basic understanding of data analytics in A&D.

CHOOSE 8 HOURS FROM THE FOLLOWING:

Information Technology and Cyber Security in Aerospace and Defense

Credit Hours: 2

Information technology and cyber security are crucial in managing a business in the aerospace and defense (A&D) industry. This course will provide a basic understanding of the technical and management aspects of data communications, networking infrastructure, and cyber security concepts for A&D.

Project Management for Aerospace and Defense

Credit Hours: 2

This course develops the knowledge, skills, tools, and techniques to initiate, plan, execute, monitor, and control activities related to meeting A&D project requirements. It focuses on the theoretical foundations and practical applications of project management along with the IT tools to support project planning, budgeting, scheduling, cost analysis, resource leveling/control, and human resource management in A&D organizations.

Field Project in Aerospace & Defense (Analysis)

Credit Hours: 2

This course provides experiential learning in the aerospace and defense industry by having students apply knowledge from the classroom and work experience to analyzing problems facing A&D organizations. Field projects will deal with scoping the problem under study, structured analysis of the problem including data collection from internal and external sources, and development of recommendations, solutions, and timeline for implementation.

Lean Six Sigma Tools for Aerospace & Defense

Credit Hours: 2

The course introduces the fundamental Lean Six Sigma concepts within a business organization. It covers the basic concepts within Six Sigma and Lean techniques and introduces tools for measurement and process improvement metrics in organizations through the DMAIC process. The course has a strategic foundation in which we review the strategic use of techniques, ensuring a positive result upon implementation.

Data Management and Security in Aerospace & Defense

Credit Hours: 2

Every organization is concerned with data management. Data must be stored effectively and securely, so it can be retrieved to support decision making. These issues are particularly relevant for the A&D industry, an environment where extra measures must be taken in all aspects of security. The objective is to provide a basic understanding of data management and security.

WHY CHOOSE OU ONLINE FOR AEROSPACE AND DEFENSE ANALYTICS

OU Online delivers high-quality, affordable undergraduate and graduate programs designed for working professionals. With flexible, fully online formats and instruction from a top-tier public university, students gain the skills and credentials to advance their careers without putting them on hold.

Explore what it takes to succeed in the fast-paced world of aerospace and defense, where financial management, critical thinking, and strategy development are vital in this innovation-driven sector.

FACULTY EXPERTISE

Learn from Price College faculty and seasoned practitioners who combine academic rigor with real-world experience and cutting-edge insight in managing and leveraging analytics to guide decision-making in the aerospace and defense industry.

ROBUST STUDENT SUPPORT

OU Online offers robust student support services, including academic support, online tutoring, mental health counseling, and an online career development center. The program accommodates the needs of working professionals, allowing you to expand your skills while maintaining full-time employment.

GLOBAL ALUMNI NETWORK

With more than 250,000 alumni across the world, becoming a Sooner means you'll have access to a strong network of aerospace and defense professionals to accelerate your career. As a Sooner, you'll be part of a powerful network of leaders working in organizations across the world, helping you expand your career in the aerospace and defense industry.

COST AND FINANCIAL AID

Earning your Aerospace and Defense Analytics graduate certificate is an investment in your future—and OU Online is committed to making that investment as accessible and transparent as possible.

Tuition and fees for the program are \$26,580 (\$2,215 per credit hour). Books and materials are included. There is no application fee for this degree.

Financial aid and employer tuition assistance may be available to help offset the cost. Our dedicated financial services team is here to guide you through every step of the funding process—so you can focus on your education and career growth.

If you have questions regarding financial aid for your online program, please contact the Online Aid office by emailing onlineaid@ou.edu or calling 405-325-2929.

**Please be aware that tuition and fees may change, as determined by the Oklahoma State Regents for Higher Education.*

LEARN MORE ABOUT FINANCIAL AID:

[HTTPS://ONLINE.OU.EDU/PROGRAM/CERTIFICATE-IN-AEROSPACE-AND-DEFENSE-ANALYTICS-GRADUATE/](https://online.ou.edu/program/certificate-in-aerospace-and-defense-analytics-graduate/)

TAKE THE NEXT STEP

To apply to the online Aerospace and Defense Analytics graduate certificate program, you must hold a bachelor's degree in any field from a regionally accredited college or university—or the international equivalent—with a minimum 3.0 cumulative GPA. We recommend that students have at least two to five years of full-time, industry-specific work experience to maximize their success in the program.

ADMISSION REQUIREMENTS

To apply for the online Aerospace and Defense Analytics graduate certificate program, students must:

- Submit a current resume or CV
- Submit a personal statement
- Submit a transcript from the college or university where the most recent degree was earned, along with transcripts from all schools where any graduate-level credit was completed.
- Demonstrate work experience – recommend 2 to 5 years of full-time, industry-specific work experience

APPLICATION TIMELINE

The admissions committee reviews applications on a rolling basis, with decisions typically issued within two weeks of receiving a completed application. Admission to this program closes earlier than many other online programs.

APPLICATION DEADLINES:

- Fall starts – May 1
- Spring starts – November 1

STEP 1

STEP 2

STEP 3

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