Earn Your Master’s Degree from the University of Denver!

Data Science  
Cybersecurity  
Systems Engineering  

- Advance your career  
- Learn skills that employers value  
- Increase your earning power  
- Small classes  
- Career Services program dedicated to your success
THE BENEFITS OF BEING A DU GRADUATE STUDENT

Career Development
More than 90% of graduate students have their post-degree plans set within six months of graduation. Career Services supports that success by offering help with the job search process and connections with our network of 160,000 alumni. The Career & Professional Development team is available to support you as a graduate student and for one year after graduation.

International Student and Scholar Services
ISSS is a resource to help international students thrive at DU. Services include academic advising, travel information, assistance with Visa applications and more. ISSS is here to address your unique challenges and help you navigate life in Denver.

Fitness Center
Graduate students have free access to the Coors Fitness Center on DU’s campus. Participate in group fitness classes, personal training, open recreation basketball, lap swimming and more!

University Writing Center
The University Writing Center is available to all University of Denver graduate students.

Vibrant, New Community Commons
A central hub for connecting with other students, faculty, staff and alumni. Meet with other graduate students in the Community Commons, home to a Graduate Lounge, Student BIPOC Affinity Lounge and Pride Lounge.
you will learn

- how to construct, validate, and deploy cutting-edge machine learning models
- how to design interactive data visualizations that enable strategic decision-making
- how to build end-to-end projects for real-world situations

Job openings in data science will grow by 22% between 2020 and 2030 (U.S. Bureau of Labor Statistics).

Why did you decide to enroll in DU’s MS in Data Science program?

“I wanted to learn how to implement more specialized data science techniques in my work and really liked that DU’s curriculum covered all of the core data science competencies like machine learning and data mining but also provided a solid foundation in statistics/mathematics.”

- Emma Bright
**MS in Cybersecurity**

Degree offered: MS  
Courses: 12-15 classes, 48-60 credit hours  
Scholarships: No, tuition is heavily discounted from regular graduate DU tuition.

Program Length: 18-24 months  
Classroom: In-person  
Tuition: See back cover.

DU is recognized by the National Security Agency and the Department of Homeland Security as a Center for Academic Excellence in Cyber Defense.

Industry experts predict a 35% growth rate in cybersecurity jobs from 2021-2031.

**you will learn to**

- detect and counter cyber attacks, protect security information systems and infrastructure  
- think strategically about cybersecurity issues and to ask the right questions  
- apply your skills in the real world with practical, hands-on projects

Graduate ready to work in strategy, programming, and analysis.

From ethical hacking to networking, learn about existing tools and how to build them yourself.

**Why did you decide to enroll in DU’s MS in Cybersecurity program?**

“I wanted to learn more about the technical aspects of cybersecurity and help contribute to the field, but I didn’t have a background in computer science so DU’s program was perfect!”

- Kathryn Walsh

A previous background in computer science is not required to apply.
Previously offered *exclusively* to a private employer, this new MS degree is now open to the public. It’s built upon students earning three stackable certifications.

### Certificate #1
**Fundamentals of Systems Engineering**
Exposure to the guiding principles and best practices of Systems Engineering. Students are prepared to partner with project leaders and stakeholders on needs assessment and requirements development, test planning, trade studies, and benefit-cost analysis.

### Certificate #2
**Systems Design & Architecture**
Learn flow down of requirements to develop implementation and/or design options; conduct trade studies by developing architectural models of these options; prepare down-selection figures of merit for refining architecture and design specifications; draft concepts of operations (CONOPS) to describe use cases and work through design validation activities.

### Certificate #3
**Systems Analytics & Practice**
Learn analytical methods and practical tools of Systems Engineering, such as applying a working knowledge of probability, statistics, and data science: cleansing complex data sets, visualizing patterns in the data, and describing characteristics of data sets to extract system performance insights; applying machine learning techniques, which are paramount to the digital transformation of advanced systems integration; deriving figures of merit required to characterize and to model processes that need improvement; rapidly trace validation and verification test results to system requirements based on statistically relevant quantitative analysis.

Learn relevant and emergent engineering applications.

Graduates will be leaders in any engineering discipline, have increased influence and promotional possibilities.
talk to one of our program reps

Kevin Alt
Data Science | Cybersecurity
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Carson Koinzan
Systems Engineering
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ready to apply?

Application materials needed:

- Resume
- Unofficial transcripts
- 2 recommendations
- Personal statement
- Proof of English proficiency for international applicants

No GRE required!

important dates

May 15th priority deadline for DS & Cyber

Aug 15th final deadline

Sept 9th classes begin!

click here to apply
Here is the list of employers hiring our Data Science Graduates.

- Advanced Onion, Inc.
- Altomni Corp
- Amazon Lab126
- American Da Tang Group Co. Ltd
- Amys Accounting, Inc.
- Avanade
- C.H. Robinson Worldwide, Inc
- Capstone Partners
- Catapult Systems
- Charles Schwab Corporation
- Charter Communications - Spectrum
- Charter School Growth Fund
- Cognizant
- Colorado School of Mines
- Digible, Inc
- Electronic Arts-EA
- Fannie Mae
- Highmark Health
- ICATT
- Insight Global, LLC
- Inspur
- Invitae
- Kax Technologies
- KPMG
- Lockheed Martin
- Mayo Clinic
- MessengerHawk
- Nordstrom
- Opeeka
- Open Technology Solutions, LLC
- Oracle NetSuite
- Proinnova Information Technology
- S&P Global
- Saint.Finance
- Sanborn
- Savvy Stack, Inc.
- Symphony MediaAI
- ToolCASE LLC
- Turn to Data
- UDR, Inc.
- University of Iowa
- Vail Resorts
- Vendavo, Inc.
- VF Corporation
- Walmart
- Wiland, Inc.
- Wisely Labs Inc.
- Workday
- Zayo Group

Here is the list of employers hiring our Cybersecurity Graduates.

- Applied Trust
- Charter Communications - Spectrum
- Cigna
- DarkOwl Cybersecurity
- Denver Public Schools District
- Finalsite
- L2NL
- Lockheed Martin
- Micro Center
- OnePlus
- Pronghorn Solutions
- QualitrolTech, Inc
- Quyet Tan Nguyen
- TruKno (Truth Through Knowledge)
- TTEC
- Western Union
- Xcel Energy
- Zoom Video Communications
Does your company need to be more competitive?

Does your career need a jump-start?

DU graduates possess cutting edge skills employers want. The Ritchie School offers students a pathway to their future. Opportunity comes from studying at a private school focused on the public good. Students enjoy small classes designed by experts in their field, career support, and a strong alumni network.

What You’ll Find in a DU Master’s Degree

The Ritchie School of Engineering and Computer Science is preparing the next generation of innovators to find solutions to some of the world's most challenging problems.

**Data Science Programs** - With technology in a state of constant evolution, the ability to access, understand and analyze data is essential for any company to stay ahead of the curve. Get the tools to succeed, no matter where you work.

**Cybersecurity Program** - Technology enhances our lives while threatening the safety of personal information and confidential data. Learn how to think strategically, ask the right questions and address cybersecurity challenges in any context.

**Systems Engineering** - Previously offered exclusively to a private employer, this program is now open to the public. This new multidisciplinary degree fuses engineering knowledge, project management, and best practices in integrated engineering approaches to strengthen leadership skills.

Find out more about tuition [here](#)!