

GRADUATE PROFESSIONAL PROGRAMS



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.



MS in Data Science

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

Program Length: 21 months Classroom: In-person or online Tuition: See back cover. Earn credits for internships.

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

you will learn

optimization anomaly detection ranking algorithms

ensemble models object detection web-scraping

- 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



Forge connections, build competency, and carve your path in data science.



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 backing to

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.

MS in Systems Engineering

Degree offered: MS
Courses: 14-15 classes, 48 credit hours
Scholarships: No, tuition is heavily
discounted from regular graduate DU tuition.

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

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.

INTERESTED IN LEARNING MORE?

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



important dates

May 15th priority deadline for DS & Cyber Aug 15th final deadline

No GRE

required!

Sept 9th classes begin!

WHO HIRES DU GRADUATES?

DU's reputation of excellence precedes you. Help build the legacy with your MS!

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 MediaAl

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 L2NL Quyet Tan Nguyen

Charter Communications - Spectrum Lockhead Martin TruKno (Truth Through Knowledge)

Cigna Micro Center TTEC

DarkOwl Cybersecurity OnePlus Western Union

Denver Public Schools District Pronghorn Solutions Xcel Energy

Finalsite QualitrolTech, Inc 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!