CAPITOL
Technology University

Welcome!

Master's Virtual Information Session
Begins at 1:00 p.m.
Eastern Time (U.S.)

CAPITOL
Technology University

Educate. Innovate. Inspire.

Master's Degree Virtual Information Session
Welcome!

Agenda

1. 7 Reasons to Consider Capitol: What Makes the University Special

2. Master's Degrees and Certificates

3. Faculty Overview of Master's Programs

4. How Long Does It Take?
   How Does It Work?

5. Tuition and Financial Aid

6. Next Steps

7. Questions and Answers

7 Reasons to Consider Capitol

1. All Master's degrees are online, with minimal or no residency requirements
2. Student-centered. Faculty will know you by name and are committed to your success
3. Vibrant and growing alumni network
4. Courses taught by leading experts in the field
5. Our students are just like you: Working professionals who want to enhance their career options with a master's degree
6. Capitol is a nonprofit, private accredited university located in Laurel, Maryland, USA, but with a global faculty and student body
7. Award-winning degree programs

CAPITOL
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Capitol is a nonprofit, private accredited university located in Laurel, Maryland, USA

CHE
MSA

MIDDLE STATES COMMISSION ON HIGHER EDUCATION

Capitol Technology University is accredited by the Commission on Higher Education of the Middles States Association of Colleges and Schools

MHEC
MARYLAND HIGHER EDUCATION COMMISSION

The University is authorized by the State of Maryland to confer Associate's (A.A.S.), Bachelor's (B.S.), Master's (M.S., M.B.A., T.M.B.A), and Doctoral (D.Sc., Ph.D.) degrees.

Award-Winning

CAPITOL
Technology University

Winner of the prestigious 2020 SC Media Award for

"Best Cybersecurity Higher Education Program"

Ranked #1 in National List of Master's Programs

Aviation Programs Recognized by RAS

What Makes Capitol Special?

- Educational partners of the National Defense University, Institute of Electrical and Electronics Engineers (IEEE), National Cryptologic School, and the Maryland National Guard.

- Center for Cybersecurity Research and Analysis

- Post 9-11 GI Bill Yellow Ribbon Program Participating Institution

- Designated a Military Friendly School by *GI Jobs Magazine* and *Military Advanced Education Magazine*.

Experience Counts!

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Small **Satellite,**
Big **Potential**

Capitol's CACTUS-1 project is
selected for the NASA CubeSat
Launch Initiative (CSLI)

- State of the art professional programs and over 90 years of experience in technology and engineering education.

- Developed the nation's **first** graduate program in Network Security (Now Cybersecurity) and also the **first** in the nation to offer this degree online.

- National Center of Academic Excellence in Cyber Defense Education
  – Designated by the National Security Agency and Department of Homeland Security

- Available asynchronous programs to help you complete your degree on your time.

Program Structure

- Three semester two term system (Fall, Spring and Summer- Term 1 and Term 2).

- Start dates every 8 weeks.

- Asynchronous online classes allow you to take classes whenever and wherever you want to, with your professor standing by for one-on-one questions and communication.

14 Masters Programs

- Aviation (MS)

- Aviation Cybersecurity (MS)

- Business Administration (MBA)
  --Choose one of 9 focused areas of specialization

- Computer Science (MS)

- Construction Cybersecurity (MS)

- Construction Safety (MS)

- Critical Infrastructure (MS)

- Cyber Analytics (MS)

- Cybersecurity (MS)

- Engineering Technology (MS)

- Technical Master of Business Administration in Business Analytics and Data Science (TMBA)

- Technical Master of Business Administration in Cybersecurity (TMBA)

- Unmanned and Autonomous Systems Policy and Risk Management (MS)

MS Research Methods/Ph.D. Technology Combination Program

Post-Baccalaureate Certificates

Each certificate is 12 credits (4 courses)

- Digital Forensics and Incident Handling
- Health Care Systems Security
- Information Assurance Administration
- Network Protection
- Secure Cloud Computing
- Secure Mobile Technology
- Security Management

Capitol also offers undergraduate certificates.
For more information on all certificates, visit:
captechu.edu/degrees-and-programs/certificates

![CAPITOL Technology University]

Faculty Presenters

Bill Gibbs
Graduate
Admissions
Host

Dr. William Butler

Dr. Richard Baker

Dr. Linda Martin

Dr. Ron Martin

Dr. Chandra Bajracharya

Dr. Robert Steele

Center of Academic Excellence

Master of Science in Cybersecurity

Master of Science in Cyber Analytics

NSA/DHS Center of Academic Excellence in Cyber Defense Education (CAE-CDE) since 2003

Dr. William Butler

Masters in Cybersecurity

36-39* credit program

- "Top" faculty from industry and government
- Cutting-edge hands-on labs (*adversarial thinking promoted*)
- NIST RMF Core are: Identify, Protect, Detect, Respond, Recover
- Fully mapped to NSA/DHS CAE standard
- Fully mapped to eight CISSP domains and prepares one for the exam

Job Titles and Midrange Salaries:

Job Title	Salary
Cybersecurity Analyst	$95,000
Cybersecurity Consultant	$91,000
Penetration & Vulnerability Tester	$103,000
Cybersecurity Manager / Administrator	$105,000
Cybersecurity Engineer	$106,000
Cybersecurity Architect	$133,000

* 39 credits for career changers

- Evaluate the statistical data generated by their computing infrastructure to
- Determine the state of the organization's security posture on an on-going basis (Continuous Monitoring)

36 credit program:

- 8 Cyber courses
- 4 Cyber Analytics courses

Tools: Python, R programming, Splunk, Elastic, ML/AI

Job Titles and Midrange Salaries:

- Data Analyst $75,000
- Cyber Security Analyst $79,000
- SOC Analyst $76,149

Questions**?**

Dr. William Butler, DSc

Department Chair

Cyber and Information Security Programs

Email: whbutler@captechu.edu

Phone: 240-965-2458

NSA/DHS Center of Academic Excellence in
Cyber Defense Education (CAE-CDE) since 2003

Dr. Richard Baker

Master of Business Administration

Technical Master of Business Administration in Business Analytics and Data Science

Technical Master of Business Administration in Cybersecurity

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M B A

A practical broad-based management degree
36-39* credits

- Focus: developing leadership skills and enhancing use of technologies to solve business problems.
- Case studies: primary tool of learning and analysis
- Research Experience: capstone project provides real-world research experience
- Flexible: pre-defined specialization areas or tailor to professional needs

MBA-600 may be waived

Use the 3 Electives (9 credits) to create a Specialization by taking 3 courses in one of the following Master's degree areas:

- Aviation

- Aviation Cybersecurity

- Construction Safety

- Critical Infrastructure

- Cybersecurity

- Data Analytics

- Engineering Technology

- Federal Acquisitions & Contracting

- Unmanned and Autonomous Systems

T

M

B

A

Specialized degrees for industry needs

36 credits

Choose either

- **TMBA in Business Analytics** – Interpret real-world data and be prepared to make strategic business recommendations based on that data.

- **TMBA in Cybersecurity** – Analyze patterns, employ powerful technological tools and drive business decisions in the cybersecurity field.

Master of Science in Aviation (36 credits)

Master of Science in Aviation Cybersecurity (36 credits)

Dr. Richard Baker

Master of Science in Aviation

This degree will help prepare you for <u>key administrative and executive roles</u> in the field. You'll gain comprehensive knowledge about the latest technological and business trends, and apply your knowledge to real-life industry challenges.

Prepare to become a sought-after professional with the capabilities needed to make sound business decisions, maintain profitability, manage your team, and ensure customer satisfaction.

Master of Science in Aviation Cybersecurity

Aviation is no longer just the task of flying airplanes. Leaders in the aviation industry face an ever-increasing need to expand the application of new technology in order to remain competitive, efficient, and viable.

By 2036, the number of air passengers is expected to double. Technology enables the creation and capture of ever-increasing amounts of data, which creates an enormous need for efficient and secure management of the data.

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ROYAL
AERONAUTICAL
SOCIETY

Master of Science in Unmanned and Autonomous Systems Policy and Risk Management (33 credits)
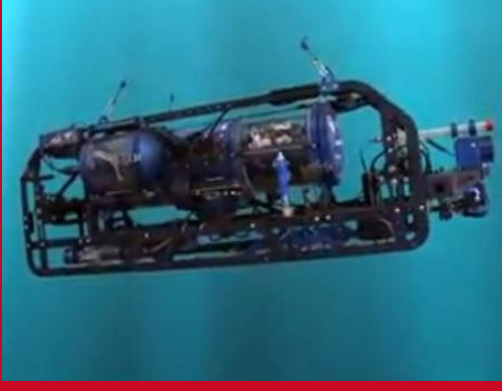
Dr. Richard Baker

Master of Science in Unmanned and Autonomous Systems Policy and Risk Management

Help navigate a changing world!

Unmanned and autonomous systems have potentially limitless applications. Along with this array of possibilities, however, comes a host of regulatory polices and risks that must be addressed. Qualified professionals who can help untangle the evolving policy environment are already in high demand -- and that demand will only increase in the years to come.

Questions?

Dr. Richard Baker

Director of Master's Programs

Email: rebaker@captechu.edu

M.S. Construction Cybersecurity

(30-36 credits)

Dr. Linda Martin

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This degree provides advanced graduate-level management education where the latest construction cybersecurity concepts are reviewed and analyzed with a laser focus. The latest technological developments, applications, and considerations in the construction industry are explored and applied to real-life industry challenges.

Position titles include:

Director, Cybersecurity

Director, Construction Cyber Operations

Chief Cybersecurity Officer

Construction Cybersecurity Consultant

M.S. Construction Safety
(36 credits)

Dr. Linda Martin

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Equips professionals in the construction field and construction related industries with skills in safety that lead to management positions in construction safety.

- 36 Credit Program

Job titles include:

Regional Safety Manager

Safety Compliance Manager

Construction Site Safety Manager
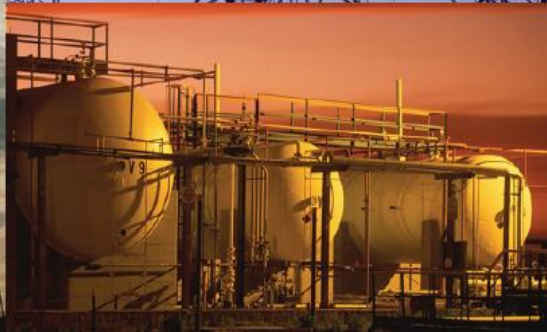
Corporate Safety Program Manager

Questions?

Contact Information

Dr. Linda Martin

Professor of Practice
Email: lfmartin@captechu.edu

M.S. in Critical Infrastructure (30-36 credits)

Ron Martin, CPP, CPOI

Critical Infrastructure Sectors

- Chemical
- Communications
- Dams
- Emergency Services
- Financial Services
- Government Facilities
- Information Technology
- Transportation Systems

- Commercial Facilities
- Critical Manufacturing
- Defense Industrial Base
- Energy
- Food and Agriculture
- Healthcare and Public Health
- Nuclear Reactors, Materials, Waste
- Water and Wastewater Systems

M.S. Critical Infrastructure

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Gain knowledge about the 16 Critical Infrastructure Sectors with a firm foundation in critical infrastructure policy, risk management, operations, and mission planning. Prepares you for high-level leadership positions.

- 30-36 Credit Program
- Capstone

Job Titles and Salaries *(all from 2020 Glassdoor data)*
Security Consultant Trusted -- $81,279
Intelligence Analyst—Critical Instructure -- $100,825
Director, Corporate Planning & Analysis -- $113,885
Resilient Systems Director -- $121,998

Questions?

Contact Information

Dr. Ron Martin, CPP, CPOI
Professor of Practice

ICAM-Critical Infrastructure

Email: rlmartin1@captechu.edu

Master of Engineering Technology

(30 credits)

Dr. Chandra Bajracharya

Engineering Technology

A practical systems development degree

30 credits

- Design-oriented program that teaches what it takes to manufacture a system that meets industry, national and international standards.

- Capstone course provides complete project management experience

- All classes are offered in an 8-week format.

Engineering Technology Careers

- Engineering Technology is a rapidly growing career field with a 13% projected growth rate through 2026. The median salary is $82,860[1]

- 2020 Glassdoor Salaries[2]
  -Engineering Technologist: $104,917
  -Engineering Specialist: $70,756
  -Lead Engineering Specialist: $97,609

[1] *Bureau of Labor Statistics, U.S. Department of Labor*
[2] *Glassdoor 2020 salary data*

Questions?

Contact Information

Dr. Chandra Bajracharya

Assistant Professor, Electrical Engineering

E-mail: cbajracharya@captechu.edu

Phone: 240-965-2506

Dr. Robert Steele

Master of Science in Computer Science
(30 credits)

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- Machine learning engineer – average base pay, **$147,300**[1], ranked **1st** in "Best Jobs in the US"[2]

- Data scientist -- median base pay**, $131,000**[2], Ranked **1st** in "Best Job in America"[3]

- Computer vision engineer – average base pay $**158,300**[2]

- Data engineer – median base pay: **$131,693**[4], ranked **8th** "Best job in America"[3]

- Software engineering manager – median pay: **$153,000**[4], ranked **43rd** "Best job in America"[3]

- Enterprise architect – Median pay: **$122,585**[4]

[1] Indeed 2020 salaries
2 Indeed 2019 Best Jobs in US
3Glassdoor's 2019 50 Best Jobs in America,
4Glassdoor 2019 salary data

M.S. Computer Science

A flexible and cutting-edge degree (30 credits)

- Covers needed foundational CS skills
- Covers introductory and advanced artificial intelligence implementation
- Provides methodological and expert guidance on apply these advanced technologies to complex real-world problems

2 Focus Areas each consisting of four 3-credit courses

- Artificial Intelligence
- Software Engineering

Questions?

Contact Information

Dr. Robert Steele

Chair of Computer Science

E-mail: rjsteele@captechu.edu

Phone: 240-965-2456

CAPITOL Technology University

- Designed for students who desire a PhD, but do not possess an appropriate master's degree in a related field, the Combination Program begins with a **MS in Research Methods** and continues with doctoral studies leading to a **PhD in Technology**. MS/PhD are awarded together at the conclusion of PhD.

FEATURES

- Enter with any Bachelor's degree
- **30-credit MS in Research Methods**

  MS courses include research techniques, methodology, ethics, qualitative and quantitative research, data collection, applied statistics, data analysis, analytics and data visualization.

- **60-credit PhD in Technology**

  PhD offers dissertation or publication options.

How Long Will it Take?

- Designed to be part-time: Most students can complete their degree in 2 to 4 years

- There are three semesters per year

- Taking 2 courses per semester will complete a 36-credit program in two years

- Factor in 10 to 12 hours of course work per week, per course

- Is it easy? Absolutely not!   Good things never are

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How Does it Work?

- Depending on the program and course, you will meet synchronously (same time each week in a live virtual environment) or asynchronously (work whenever you want and turn in the work at the end of the class week). Most courses are asynchronous.

- There are no residency requirements. You will not need to come to campus during your degree.

- Faculty will be communicating regularly with you. You will always know where you stand and they are always available to answer your questions.

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- You will appreciate the flexibility our graduate programs offer

- Courses begin every two months (6 terms per year)

- As a master's student you can apply—and be accepted—at any time

- Courses are 8-weeks or 16-weeks long

- After filing an application you can begin courses in the next term

- $630 (per credit) - plus fees *(information technology and other applicable fees)*

Active Duty Military Tuition Rates
(all master's degree programs)

- Master's Active Duty Military Tuition Rate - $350 per credit hour plus fees (rate also applies to spouses of active duty military members)

Retired Military Tuition Rate
(all master's degree programs)

- $100 discount ($530 per credit)

Hometown Heroes

Hometown Heroes Tuition Discount

We honor those who serve their local communities:

- Community College faculty and staff

- High School teachers and administrators

- Emergency Personnel (EMTs, paramedics, firefighters, and police)

These heroes receive a 20% tuition discount for graduate programs (Master's and Doctoral Degrees).
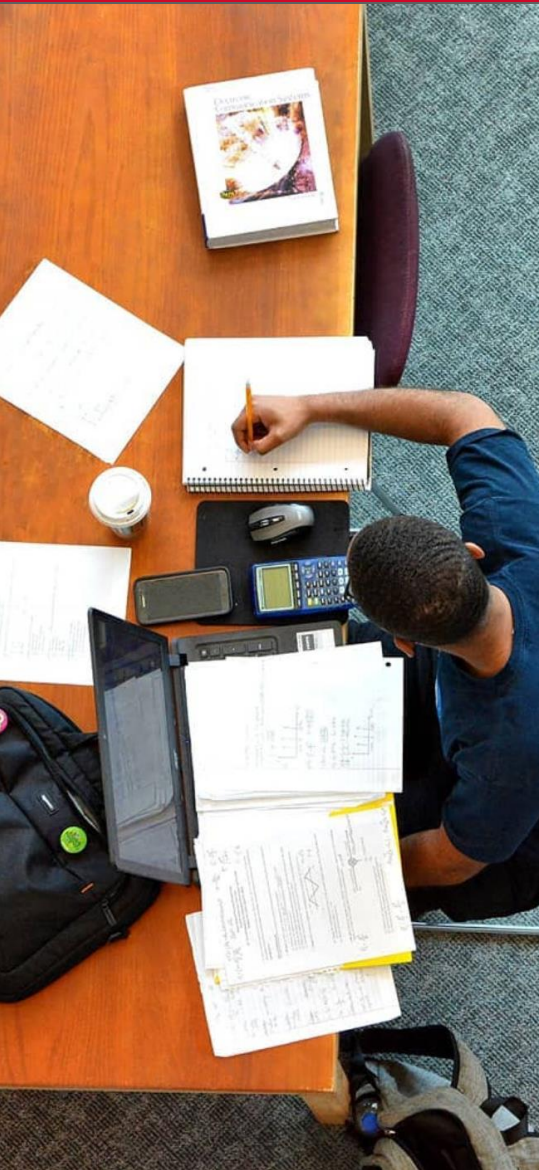
Three Blue Ribbon Benefits

1. **Cancellation Assistance.** If you start the program with benefits and your benefits are canceled after you start, we will pay 50% of the tuition. This is only for the course you are attending at the time of your benefits cancelation.

2. **Discounts.** Once you finish your first 3 courses you are eligible for a $500 per course discount for your next three classes.

3. **Referrals**. If you recommend someone to Capitol, they apply, are accepted and enroll in a course, you will receive 1 free course.
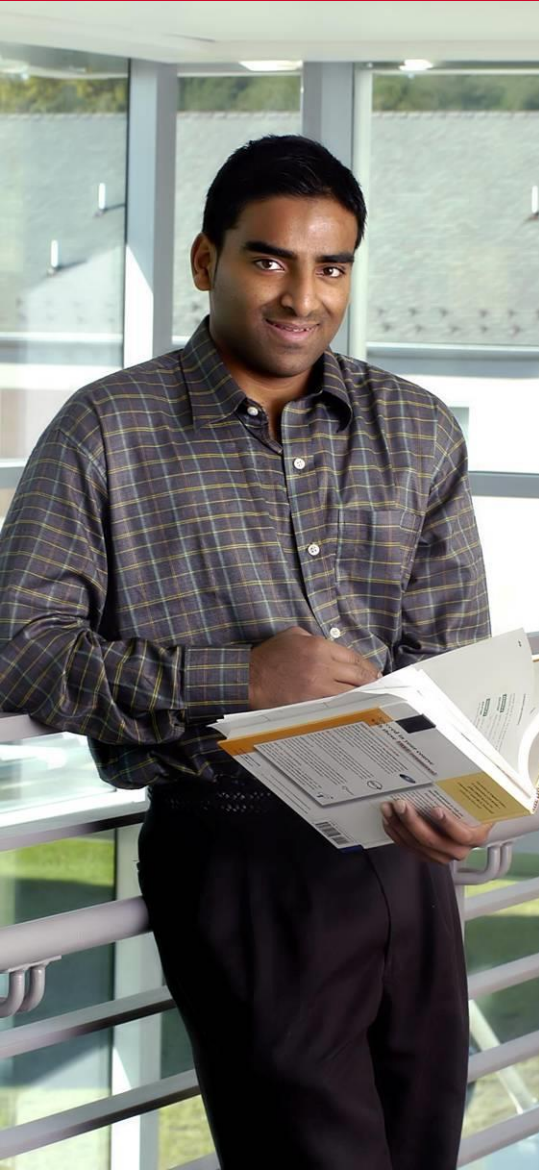
Office of Financial Aid

- Federal Financial Aid (best to submit FAFSA as early as possible) – takes at 7-10 days to process

- www.fafsa.ed.gov to apply for aid

- Capitol's Title IV Code = 001436

Financial Aid Office: 301-369-2324

Employer Sponsorship

- Corporate Sponsorship

- Government Sponsorship (T.A. 1556)

- Company promissory notes

Please email completed paperwork to the **Business Office** at businessoffice@captechu.edu

VA Programs

- Montgomery GI Bill
- Post 9-11 GI Bill
  - Students are eligible to receive a partial housing stipend for online programs.
- Capitol is authorized for both of these programs.
- Yellow Ribbon Program
  - Capitol is a Yellow Ribbon Institution
  - If you are fully eligible under Post 9-11 GI Bill you may be able to complete your degree tuition free!

U.S. Veterans: We'll work closely with you to help you obtain your V.A. Payments

Please email your Certificate of Eligibility or V.A. forms to the **Registrar's Office** at vabenefits@captechu.edu

U.S. Federal Financial Aid

- 6 credits per 16-week semester is half time (minimum required to receive federal aid)

- 9 credits per 16-week semester is full-time.

VA Benefits

- 3 credits in an 8-week period is full-time. If you take two 8-week courses in a semester you are considered full-time for the whole semester.

- Two 16-week courses are also considered full-time

- A 16 week and an 8 week together you are considered full-time for the 8 week portion only.

Submit an Application

- Go to www.CapTechU.edu and click on the apply now link and fill out the **FREE** online application.

- Bachelor's degree official transcript from a regionally accredited college or university.*

- Resume

- Goal Statement

- Request a transcript from your undergraduate degree granting institution be sent to Capitol Technology University.

- Meet the program specific requirements.

- **GRE or GMAT tests are NOT required!**

Or international university equivalent (with NACES evaluation)

We invite you to join us for the Doctoral Virtual Information Session this afternoon at 3 p.m.

https://captechu.zoom.us/j/91665286935

or

bit.ly/2GMLRVV

(No additional registration required)

Questions?

Email: gradadmit@captechu.edu

Phone: 1- 800-950-1992

Please visit us at: www.CapTechU.edu

Thank you for attending!