URI Accelerated Bachelor's to Master's Degree In Computer Science/Cybersecurity

Presented by: Dr. Vic Fay-Wolfe

Co-Director, URI Cybersecurity Academic Program

https://web.uri.edu/cs/academics/accelerated-masters/
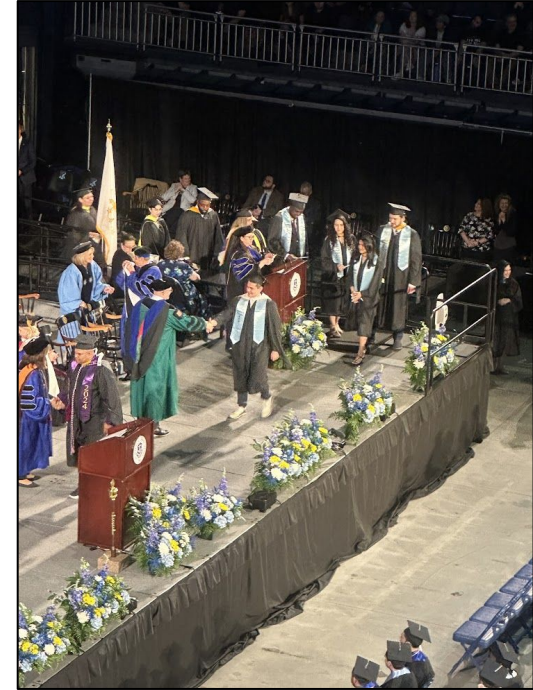
THE
UNIVERSITY
OF RHODE ISLAND

Professional Science Masters Degree in Cybersecurity

- ❑ URI PSM is a cybersecurity technical Master's degree integrated with professional cybersecurity skills

- ❑ Nine 4-credit courses including Internship for capstone experience in a professional setting doing cybersecurity

- ❑ Instructed by URI faculty and industry professionals

- ❑ All courses completely async online

- ❑ Video lectures streamed on-demand

- ❑ Cloud-based hands-on labs

- ❑ PSM in Cybersecurity typically takes 2 years to complete

- ❑ URI Is a US National Security Agency Center of Academic Excellence in Cybersecurity

What is the CS + Cybersecurity ABM?

☐ Sometimes called a 4+1 degree

☐ Accelerated Bachelor's Degree in Computer Science to Master's Degree in Cybersecurity

☐ Allows Computer Science Majors to complete a Professional Science Masters in Cyber Security (PSM) in just one extra year (4+1)

☐ Double count 3 courses (12 credits) towards both your Bachelor's and their Master's Degrees.

URI PSM In Cybersecurity Courses

- CSF 410 *Digital Forensics*

- **CSF 430 *Introduction to Information Assurance*****

- **CSF 432 *Introduction to Network and Systems Security*****

- CSF 524 *Incident Response*

- **CSF 534 *Advanced Network and Systems Security*****

- CSF 536 *Advanced Intrusion Detection and Defense*

- CSF 538 *Penetration Testing*

- CSF 540 *Malware Analysis*

- CSF 560 *Cyber Threat Intelligence*

- CSF 580 *Professional Skills for Cybersecurity*

- CSF 590 *Cybersecurity Internship*

- CSF 591 *Cybersecurity Project*

- CSC 492/592 *Secure Machine Learning*

CompTIA
Network+

CompTIA
Security+

CompTIA
CySA+
CERTIFIED·CE

ABM Eligibility

❑ Applicants must be enrolled at URI:
  – Computer Science BA major <u>or</u>
  – Computer Science BS major

❑ Prior to application:
  – Earned a minimum of 75 credits
  – Have a 3.0 GPA
  – CSF 202 – *Fundamentals for Cyber Security (Grade of B or Better)*
  – CSF 432* – *Introduction to Network and Systems Security (Grade of B or Better)*

Or equivalent courses at the discretion of the department.
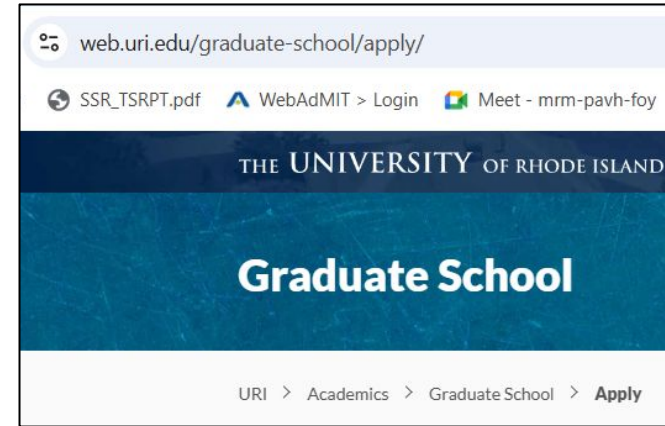
Is the Program Right For You?

Contact **dfcsc@etal.uri.edu** for:

❏ ABM Advising Questions

❏ Application Help

❏ Choosing your tentative courses to double count/complete the

Master's Degree.

Applying To The ABM Program

❏ Apply using URI's graduate application system.
  – No GRE's
  – Unofficial URI Transcript
  – Personal Statement
  – Tentative Program of Study
❏ Apply for the correct program: ABM vs PSM
❏ The 'ideal' time to apply is during your junior year.
❏ You can find out as early as Spring of your Junior year if you are accepted.

web.uri.edu/graduate-school/apply/

SSR_TSRPT.pdf WebAdMIT > Login Meet - mrm-pavh-foy

THE UNIVERSITY OF RHODE ISLAND

Graduate School

URI > Academics > Graduate School > **Apply**

THE UNIVERSITY OF RHODE ISLAND

https://web.uri.edu/cs/academics/accelerated-masters/

SAMPLE ABM Timeline for a Student

Sophomore:	Spring	CSF 202	Not Double Counted
Junior:	Fall	CSF 432* **	Double Counted; B or Better
	Dec/Jan	Apply to the ABM	
	By March	Apply to CyberCorps Scholarship (if desired)	
Senior:	Fall	CSF 430	Double Counted; B or Better
	By Jan	Apply to Graduate School Funding;CS/Cyber Funding (if desired)	
	Spring	CSF 534	Double Counted; B or Better
Graduate Year:	Fall	3 Courses	
	Spring	3 Courses	

Undergrad Courses:	Section 0001
Graduate Courses:	Section 0250

* Some students also take CSF 430 this semester

** If you are unable to get into CSF 432 in order to complete the requirements of the ABM application during your Junior year, please speak to an advisor about equivalent courses.

URI ABM Scholarship

❏ Up to $15,000 that can only be applied to cover the cost of graduate year courses in the ABM program

❏ Some scholarships may be for $5,000, which would almost fully cover one of the 6 remaining graduate courses!

❏ Selection Criteria:

– Financial need

– Academic performance/potential

– Diversity/equity/inclusion of students from demographic groups underrepresented in the Cybersecurity profession.

web.uri.edu/cs/scholarships/abm-degree-scholarships

THE UNIVERSITY OF RHODE ISLAND

THE **UNIVERSITY** OF RHODE ISLAND

Department of Computer Science and Statistics
College of Arts and Sciences

URI > Arts and Sciences > Department of Computer Science and Statistics > Scholarships > ABM Degree Scholarships

Home   About   Academics   People   Research   News and Events   Contact

Accelerated Bachelors/Masters Degree Scholarships

URI is offering Accelerated Bachelors/Masters (ABM) Degree Scholarships for URI students in the ABM Computer Science/Cybersecurity program. Selected scholars will be awarded up to $30,000 that can only be applied to cover the cost of graduate year courses in the ABM program at the University of Rhode Island during the academic year of the award.

Eligible applicants for this scholarship must:

- Be a U.S. Citizen or Permanent Resident.
- Have been admitted to URI's Accelerated Bachelor's Degree in Computer Science to Master's Degree in Cybersecurity. You may apply for this scholarship concurrently with applying to the ABM program, or apply after acceptance to the ABM program.
- At the time of application for the scholarship, have filed a Free Application For Federal Student Aid (FAFSA), with a FAFSA report sent to URI.

ABM Scholarship awards are made on a rolling basis dependent on the availability of funds.

Students interested in URI's Cybercorps Scholarship For Service may apply for both that scholarship and this ABM Scholarship; at most one of these scholarships may be awarded to a student.

URI Cybercorps Scholarship For Service

- Scholarship for Senior year and Grad year of ABM
    - All tuition and fees covered
    - $27,000 stipend undergraduate year
    - $37,000 stipend graduate year
    - $6,000/year professional development funding
    - US Government cybersecurity internship

- SFS Activities course as part of your academic program
    - Cyber competitions
    - Cyber job search support

- 2 year commitment to work for the U.S. Government in a cybersecurity position after graduation.

- URI typically takes 5 new scholars each year

- Apply along with the your ABM application

- Graduate-only SFS scholarship option available.

Frequently asked Questions

What if I want to minor in Cyber Security?

❑ You can do both the Cybersecurity minor and the ABM program

❑ CSF 202 is required by the minor and to apply to ABM

❑ ABM Courses also counted towards the minor:

   – CSF 432
   – CSF 430
   – CSF 534 (in place of CSF 434)*

** ABM students do **NOT** take CSF 534 **and** CSF 434.*

THE
UNIVERSITY
OF RHODE ISLAND

THE **UNIVERSITY** OF RHODE ISLAND

Department of Computer Science and Statistics
College of Arts and Sciences

URI > Arts and Sciences > Department of Computer Science and Statistics > Academics > Minor Programs > Cyber Securi...

Home   About   **Academics**   People   Research   News and Events

Cyber Security Minor

OVERVIEW   CURRICULUM   CAREERS

Curriculum

Depending on a student's background and interest, the minor can be tailored to meet individual needs. Completion of the Cyber Security Minor typically requires the following courses; modifications can be discussed with Dr. DiPippo.

Requirements

Programming Requirement

Computer Science majors fill this requirement by completing CSC 110 – Sur Computer Science. Students who are not Computer Science majors need to basic programming skills for the program and must take:

CSC 201 – Introduction to Computer Programming is a course in basic prog concepts, for non-Computer Science major students.

Note: The programming experience course can be taken at the same time as 202.

Core requirements

All students will be required to take the following courses that make up the the minor:

CSF 202 – Fundamentals for Cyber Security (Spring; 4 credits)
CSF 430 – Introduction to Information Assurance (Fall; 4 credits)
CSF 432 – Introduction to Network and Systems Security (Fall; 4 credits)
CSF 434 – Network and Systems Security (Spring; 4 credits)

Frequently asked Questions

If I am in one of the required 2 'pre-application' courses (for example CSF 432), can I still apply?

❑ If you have taken CSF 202 and are currently taking CSF 432 this semester, <u>and</u> you will have completed 75 credits by the end of the semester, you can complete your application, but ***do not submit it until the end of the semester*** (after grades have posted).

Frequently asked Questions

What if I am not a Computer Science Major or not sure if I am ready to apply until after I graduate?

❑ Non-CS Majors or students who have graduated are not eligible to apply for the ABM program and double count credits.

❑ However, you are still able to apply for the Professional Science Master's Degree in Cyber Security.

Frequently asked Questions

What happens if I decide to not do the ABM program now. Can I double count later?

❏   No. This is a 4+1 program. You must be admitted to the program prior to your Bachelor's Degree graduation and must complete your Master's Degree in Cybersecurity one year after graduating with your Bachelor's Degree in Computer Science.

❏   If you are accepted to the ABM program and then are not able to participate due to work/life balance, contact your ABM advisor ASAP. We may still be able to find a schedule that works for you.

Questions?

Dr. Lisa DiPippo   ldipippo@uri.edu
Dr. Vic Fay-Wolfe   vfaywolfe@uri.edu
Advising: dfcsc@etal.uri.edu

https://web.uri.edu/cs/academics/accelerated-masters