



Southern  
New Hampshire  
University



Safeguard organizations  
from cyber attacks.

## Master of Science in Cyber Security

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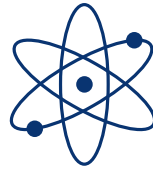
# About SNHU

Founded in 1932, Southern New Hampshire University (SNHU) is a distinguished U.S. nonprofit institution with a 25+ year online legacy of redefining higher education. Chosen by 3,000 on-campus and 170,000 online students, with an alumni network exceeding 100,000 worldwide, SNHU is one of the largest universities in the U.S.

SNHU is decorated with accolades, including the 2020 Most Innovative University in the North (U.S.) and Best Regional Universities by U.S. News & World Report and is accredited by NECHE, overseen by the U.S. Department of Education and Council for Higher Education Accreditation. SNHU strives to transform lives through quality education and our globally recognized accreditations are a testimony to the highest academic standards.



Awarded the 21st Century Distance Learning Award For Excellence in Online Technology  
By the United States Distance Learning Association (USDLA)



Named 2024's Most Innovative University in the North  
By the U.S. News & World Report



Accredited by the New England Commission for Higher Education (NECHE)  
Overseen by the U.S. Department of Education (USDOE)



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# Program Overview

Learn to defend organizations against the increasing rate of cyber crime with SNHU's online **Master of Science in Cyber Security**. No matter the industry, all companies and their customers are susceptible to criminals keen on exploiting the digitalization of business processes.

With this unique online program, you'll learn the technical skills needed to defend data and digital content in addition to the business acumen necessary to design security processes, lead teams and focus on the human element of cyber security. Our career focused curriculum arms you with the tools to be successful in the field of cyber security while you continue to work and take care of obligations at home.



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# Why Cyber Security?

As all aspects of life and business become more dependent on digital solutions, people and organizations are becoming more susceptible to criminals adept at stealing data for financial gain. Professionals with both the technical and leadership skills to protect data from getting into the wrong hands will continue to be in high demand.

In fact, the demand for professionals to defend against the growing sophisticated, organized security threats continues to exceed the supply of highly qualified candidates to fill security positions. Graduates of SNHU's MS in Cyber Security have gone on to work in roles in a variety of industries, government agencies and military sectors worldwide.

- The cyber security professional unemployment rate is currently 0% and is expected to remain so.\*
- There are expected to be 3.5 million vacancies in cyber security around the world by 2025, and companies are straining to fill these roles with highly qualified candidates.\*\*
- There is a huge gender disparity in the cyber security workforce, with only 21% of professionals being women. Companies are looking to diversify their cyber security professionals and attract more women into the field.^

\*Herjavec Group [Viewed online here.](#)

\*\*Times of India [Viewed online here.](#)

^Times of India [Viewed online here.](#)



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# Career Potential

Defend the digital realm from cyber-attacks and fortify a successful career with an online Master of Science in Cyber Security. Gain unmatched technical expertise to combat threats and equip in-depth skills to strategize digital security for organizations. Shape a career safeguarding critical data and mitigating cyber risks in high-demand roles like:

- Cyber security manager
- Information security analyst
- Developer
- Systems administrators



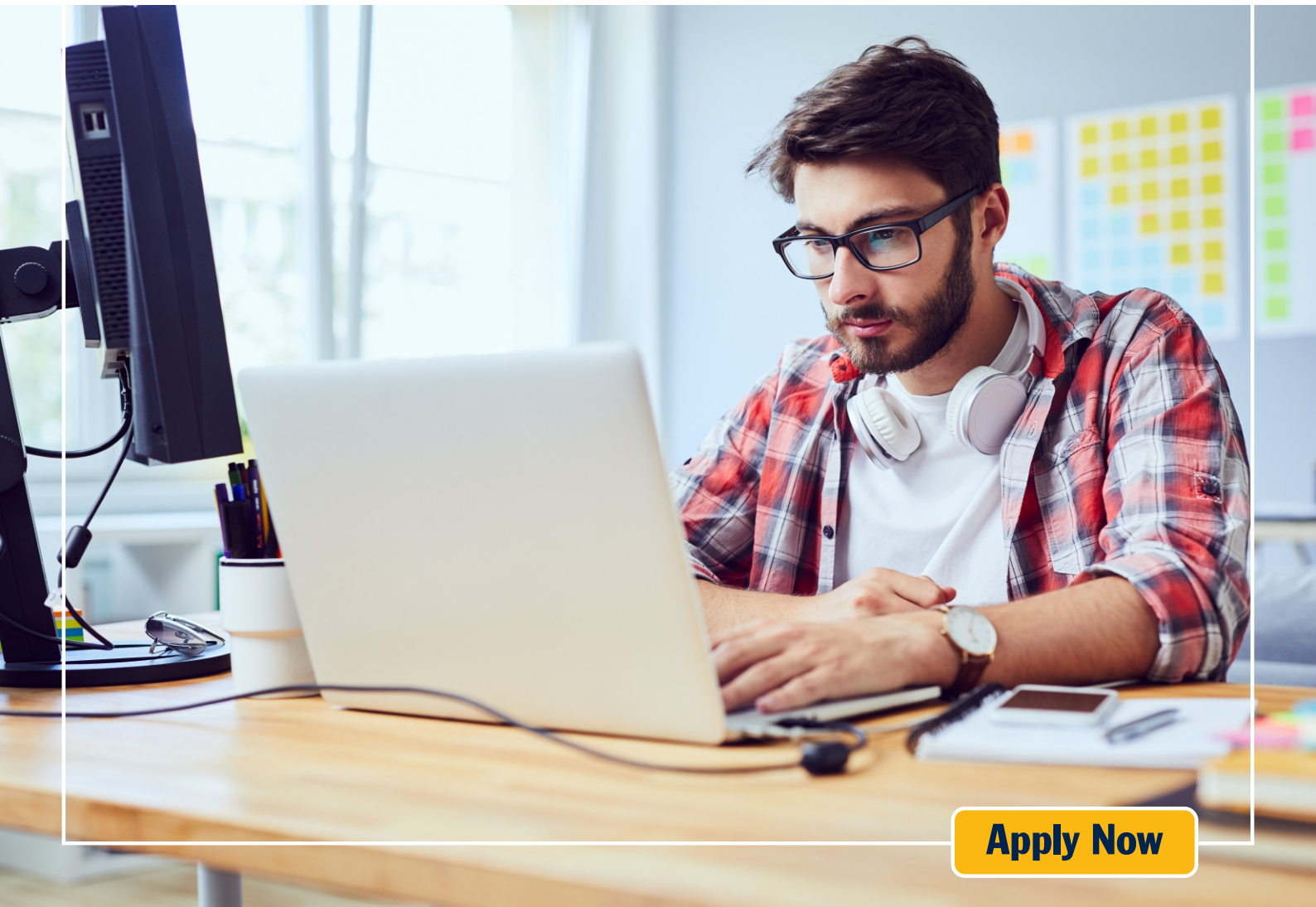
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# What Will You Learn?

SNHU's online cyber security program will ensure you gain competence in managing the design, oversight and assessment of data security with a special focus on the human aspect of cyber security. Led by experts in their field with real-world experience, you will learn to meet the challenges posed by cyber threats, to protect the confidentiality and integrity of data and to develop risk mitigation strategies for companies in any industry.

Our curriculum ensures you gain leadership strategies to lead security ethically and up to tech standards, in addition to keeping up to date with current trends. You will also become a great communicator, employing interpersonal communication skills and creating specialized security communication plans. The MS in Cyber Security will focus on five key areas of competence:

- Information security governance
- Information security risk and compliance
- Information security program creation and management
- Information security incident response and business continuity
- Leadership, collaboration and communication.



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# Why Choose SNHU Online?



## Embrace a rich academic legacy

Established in 1932, SNHU brings a rich legacy of educational excellence and leadership. As a pioneer in online education, SNHU has been offering industry-relevant top-tier online degrees since 1995.



## Global employability & opportunities

With a 160,000+ strong global community of learners and a vast network of 232,000+ alumni across 46+ countries, our global footprint showcases our international recognition and employability. SNHU propels you to global success, preparing you for evolving workplaces.



## Opportunity to attend graduation ceremony on-campus

Online students at SNHU have the unique opportunity to take part in the full graduation experience. You are welcome to join the celebration on campus and build lifelong memories in person, because your success deserves the spotlight.



## Robust suite of online learning tools

Online learners at SNHU gain exclusive access to specialized online toolkits, depending on the area of study. These include Microsoft Suite and a LinkedIn Learning subscription. Elevate your education.



## Career Catalyst Advantage

In partnership with Hiration, SNHU offers a whole suite of AI-powered career-enabling tools that help you sharpen skills through mock interviews, receive real-time feedback, create a compelling LinkedIn profile, master the art of cover letters and tailor resumes with Job Matcher for each opportunity – all with AI-powered excellence.



## Affordable pricing & merit scholarships

SNHU is committed to making learning economical and accessible. Our pricing, flexible payments, 0% financing and merit scholarships ensure a U.S.-accredited degree is financially reachable for everyone.



## Campus Immersion Program

Embark on SNHU's Campus Immersion program, a dynamic 2-week Experience English Summer Camp, where you'll delve into New England's rich culture, engage with local entrepreneurs, attend campus event with SNHU students, and enhance your English skills through hands-on educational excursions and career workshops, creating lasting memories beyond the classroom.

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# Alumni Benefits

Upon completing their studies, all SNHU graduates, whether from online programs or on-campus courses, gain access to a diverse array of exclusive alumni benefits. By joining our online alumni community, you unlock:

## Global Alumni Network and Social Platform

Stay connected with former SNHU classmates across the globe through our comprehensive alumni directory and social media platform, fostering valuable connections and opportunities for collaboration.

## SNHU LinkedIn Community Group Handshake

Join our exclusive LinkedIn community group designed for SNHU alumni, where you can explore job postings, advertise vacancies within your company, and tap into the diverse talent pool of SNHU graduates.

## Career Development Resources

Engage in a range of career development resources, including webinars, internship fairs, and personalized counseling sessions, tailored to support your professional growth and advancement.

## Professional Support Services

Benefit from tailored professional support services such as mock interviews and resume reviews, providing invaluable feedback and guidance to help you succeed in your career endeavors.

## Events Calendar: Networking and Engagement

Stay informed about upcoming events such as Homecoming celebrations, Global Days of Service initiatives, and virtual career events, offering opportunities for networking, learning, and community engagement.

## Access to SNHU Library Resources

Gain unrestricted access to a wealth of academic and research resources offered by SNHU's library, empowering you with the knowledge and information needed to excel in your personal and professional pursuits.



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# Career Catalyst AI Tools: Empowering Your Career Ascent

We have partnered with Hiration, a pioneer in AI-driven innovation, to offer you a whole suite of AI-powered tools that enable you to showcase your best self and take your career to unprecedented heights.

## Get a competitive edge with Career Catalyst:

- **Excel in mock interviews:** Refine your interview skills with real-time feedback.
- **Tailor your resume:** Customize your resume to each job listing with the Job Matcher feature.
- **Optimize LinkedIn:** Craft an alluring profile showcasing skills and experience that recruiters can't resist.
- **Perfect your cover letter:** Receive precise, actionable feedback to create a lasting impression.

Transform your growth trajectory with AI-powered tools. We're here to guide you every step of the way.



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# Format

## Online Degree Program

Our online postgraduate programs have **five convenient start dates** throughout the year and are divided into ten-week sessions - November, January, April, July, September and December. Applications are reviewed on a rolling basis.

# Eligibility

## Online Degree Program

To be eligible for admission in one of SNHU's online postgraduate programs, you must meet the following criteria:

- Must not be a resident of the U.S.
- Must be proficient in English
- Must hold an undergraduate degree:

4-year undergraduate degree holders must have their degree issued from an accredited university (NAAC, UGC or AICTE) and earned a designation of second division or higher (45% or above).

3-year undergraduate degree holders must have their degree issued from a NAAC accredited university with a letter grade of B+ or higher and earned a designation of first division (60% or above).



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# Curriculum

If you would like more information about any of the subjects, please click on the subject code to bring you to the academic catalog.

## **Foundation Subject** (3 Total Credits - does not count toward degree total)

### **IT505 - Core Technologies**

\*To best prepare you for academic success at the graduate level, an undergraduate background is required in certain subjects. Upon submitting all of your admission documents, they are reviewed to determine if this requirement is met. If this requirement is not met, students are required to take up to 2 additional Foundational Courses to meet this requirement. Students pursuing a concentration are awarded university credit hours for these foundational courses but those awarded credit hours do not go towards the 30 credit hours required by the program curriculum.

## **Major Subjects** (27 Total Credits)

**IT640 - Telecommunications and Networking:** Telecommunications is a business resource that must be well managed. This includes the technical aspects and the application of telecommunications technology to solve specific business problems and enhance the strategic position of a business enterprise. Topics include the importance of telecommunication in today's business environment, the analysis, design and implementation of telecommunications systems, the scope of the telecommunications industry and current trends; telecommunications hardware, the Open Systems Interconnection (OSI) network model, networking technologies and telecommunications software, protocols and standards.

**IT549 - Foundation in Information Assurance:** This course explores the basic concepts and prepares students with the foundation skills for the protection of networks, communication, and data, as well as the knowledge base for planning, implementing and managing enterprise level security and system integrity. Topics include approaches in an organization to prevent, detect and recover from the loss of information, cryptography and its applications, security in networks and distributed environments.

**IT552 - Human Factors in Security:** This course examines the human factors present in cyber security related to ethics, integrity, practices, policies and procedures. Students will design information technology security awareness training and optimize information technology organizational factors to foster a healthy security culture within an organization. Additionally, students will recommend mitigation strategies to protect an organization from human behaviors that could potentially cause a security threat.

**IT643 - Network Assessment and Defense:** Explore a broad range of topics from secure network fundamentals, protocols and analysis; threats and vulnerabilities; application, data and host security, access control and identity management. Examine defensive measures to secure an organization's network. Identify overall network security posture and the basic practices in vulnerability assessment.

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**IT659 - Cyberlaw and Ethics:** This course addresses ethical and legal issues related to e-commerce and e-business. Students will investigate government approaches to content control and rights, access and jurisdiction regarding personal information, digital property, U.S. and international law, antitrust law, fraud and more.

**ISE510 - Security Risk Analysis and Planning:** This course explores core areas of information security risk and planning, including risk analysis, business continuity, disaster recovery, incident response and security controls. The course will also explore risks as they relate to areas like financial regulations and privacy. Other topics include governance and internal and external partnerships, emerging threats and vulnerabilities, and emerging security capabilities.

**ISE620 - Incident Detection and Response:** This course provides students with the background and skills to manage information security incidents to minimize impact on business operations. Topics include detection, investigation and response to different types of security incidents. Students explore these topics by developing incident response plans; utilizing industry-standard processes and tools for investigating information security incidents; and recommending processes for incident response that adhere to legal, regulatory and organizational compliance. Students who have completed the course have



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**ISE640 - Investigation and Digital Forensics:** In this course, students learn the theory, practice, and principles of digital forensics through investigation of computer, network, operating system, mobile device and other areas of digital forensics. Topics include identification, collection, acquisition, authentication, preservation, examination, analysis and presentation of digital forensic evidence.

**ISE690 - Cyber Security Capstone:** This capstone course integrates previous coursework and practical experience with a focus on authentic demonstration of competencies outlined by the program. Rather than introducing new concepts, students synthesize prior learning to design, develop and execute an analytics project on their chosen subject as a culmination of their studies. The course is structured around this critical capstone assessment, so that students have the appropriate support and resources required to be successful.

## Major Electives (9 Total Credits)

**6 credits (3 courses) from subject(s):** DAT ISE, IT, or MAT within the range of course numbers 500 - 799, except: IT505

**3 credit(s) from:** DAT ISE, IT, MAT, MBA, MGT, OL, QSO, OR WCM WITHIN THE 500 - 799 RANGE EXCEPT: IT505

## Total Credit Hours: 36 credits (or 12 Subjects)

*Disclaimer: Subject availability is not guaranteed. Not all subjects are available for all terms and in the event there is an error, the university reserves the right to remediate. Subjects are not necessarily able to be taken in the order listed.*



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# Meet Our Faculty Members

SNHU is dedicated to student success, and that starts with bringing expert faculty to teach our specialized subjects for students studying online from India. In addition to real-world experience in their field and a passion for education, each faculty member undergoes training for online instruction from SNHU.

Our faculty members for online degrees in India are Indian, meaning they can help bridge the cultural gap and give you the unique perspective of an Indian professional working domestically and globally. SNHU hires our Indian faculty members at the same standard as our on campus faculty, so you'll get the unique opportunity to learn from local experts hired at U.S. university standards.

## Faculty Highlight



### **Dr. Meera Iyer, PhD**

**12+ years of experience**

**Teaches Physiological Psychology**

Dr. Iyer is a child and adolescent psychologist with a PhD in psychology, specializing in cyberpsychology.

She is a member of prominent international and national psychological associations (APA, INSPA, NAOP and BCPA) and has made contributions to government-based initiatives (NCPCR, Mission Shakti-Gov. of India) for counseling trauma and domestic abuse victims.



### **Dr. Nilakantan Narasinganallur, PhD**

**32+ years of experience in finance, 15+ years of teaching MBA programs**

**Teaches Applied Business Statistics**

Dr. Narasinganallur has earned his Ph.D. in Management from Mumbai University, where his research focused on financial derivatives and the comparison of option valuation for indexes and equities in the Indian stock market to valuations in the US stock market.

He is a published author of a book on modern risk analysis and various peer-reviewed research papers in international journals.

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## **Dr. Sivaraman Eswaran, PhD**

**Completed his PhD at Bharathiar University, Coimbatore in 2019  
Teaches Security Risk Analysis and Planning**

Dr. Sivaraman is a CompTIA Security+ certified professional and EC-Council Certified Computer Hacking Forensic Investigator in addition to a Microsoft Certified Professional and EMC Academic Associate.

He received an internal research grant funded by PES University for a research project, in addition to several research projects funded by Curtin University Malaysia in collaboration with the University of Nottingham Malaysia and the Swinburne University of Technology Malaysia.



## **Dr. Veena Tripathi, PhD**

Dr. Tripathi's experience spans various industries (automobile, banking, entertainment, NGOs and educational institutions) and regions including Europe, North America, India and Central Asia. Professor Veena is a certified coach from HarvardX and University of Michigan and her major focus is to bring purpose, positive energy and creative confidence to every teaching experience. Currently, she is the Director of Global Strategic Partnership of an NGO, a marketing professor at Jaipuria Institute of Management, Delhi in addition to being faculty member at SNHU. She brings to the table a varied set of skills and experience ranging from mental health to personal branding to marketing communications. She is also a columnist for the Indian Sleep Product Federation magazines, Loud Applause, Data quest and more.

# Accreditations



# Degree Certificate

*Southern New Hampshire University*

Be it known that the Board of Trustees, by the authority vested in it under the laws of the State of New Hampshire and upon recommendation of the faculty does hereby confer upon

Your Name Here

the degree of

Master of Science  
in Name of Program Here

in recognition of fulfillment of the requirements for that degree with all the Rights, Honors and Privileges pertaining thereto.

Given at Manchester, New Hampshire this sample day of May, for reference purposes only.

**Actual diploma will have the official SNHU seal and signatures from the president and chairman of the board of trustees**

\* SNHU degree programs are validated by the U.S. Regional Accrediting body (NECHE) and recognized in the U.S. by the U.S. Department of Education. These degree programs do not have official recognition by Ministries of Education outside the United States.

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University**

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Connect on Whatsapp 

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