CYBERSECURITY BOOTCAMP COURSE
JUNE 4 – JUNE 7, 2024

LECTURER-IN-CHARGE: Mr. Alfonso Guzmán-Vázquez, Head, Cybersecurity Test & Evaluation Branch, Naval Undersea Warfare Center (NUWC)

TUITION: $2310

DAILY CLASS ROUTINE:

Tuesday: Classroom facility opens at 0730 and will be secured at 1700. Class begins at 0930 and ends at 1700. Optional ice breaker after class – Za Pizza, 350 Third Street, Cambridge.

Wednesday: Classroom facility opens at 0730 and will be secured at 1700. Class begins at 0800 and ends at 1700.

Thursday: Classroom facility opens at 0730 and will be secured at 1700. Class begins at 0800 and ends at 1700.

Friday: Field trip to Naval Undersea Warfare Center, Newport RI. Bus departs from front of Draper Laboratory (555 Technology Square) at 0700 and returns around 1800. Lunch will be provided during the tour.

COURSE DESCRIPTION AND OBJECTIVE:

The objective of this course is to provide the student with a broad foundation in CYBER – from the policy level to the tools used by today’s hackers. Real world threats will be examined to provide a firm grounding of the importance of cyber to the warfighter. Threats, threat vectors, attack surfaces, cyber protection practices, and defense of infrastructure will be discussed. Security tools and techniques will be covered as they apply to Naval systems and infrastructure. The Risk Management Framework (RMF) used to achieve accreditation will be introduced. Exposure to real world experimentation as well as Navy shipboard systems will be provided.

Upon completion of the course, the student will:

• Understand the changing cyber environment and its effects on Naval systems and infrastructure.
• Identify the challenges in maintaining a cyber-secure environment in today's worldwide environment.
• Identify the considerations and interactions between system, ship and cyber design.
• Understand the importance of incorporating cybersecurity early and continuously throughout the acquisition life cycle development.
• Value the use of experimentation in the cyber process.
• Understand the changing threat landscape.
• Be familiar with some of the tools used in cyber protection and exploitation.
The following topics will be covered:

- Introduction and overview of Cybersecurity concepts and fundamentals
- Cyber Engineering and Assessments
- The Risk Management Framework
- Protection Methods and Security Architectures
- U.S. Navy Cybersecurity Policy
- Cyber Kill Chain and Defense-In-Depth
- Cybersecurity Test & Evaluation
- Penetration Testing
- Cyber Real-World Examples
- Cyber Risk Threats Vulnerabilities Countermeasures
- Attack Methodologies
- In addition, a Cyber Table Top Exercise will be held

SPECIAL NOTE: This course contains material governed by Distribution Statement D. Distribution authorized to the Department of Defense and U.S. DoD contractors only. Other requests shall be referred to Naval Undersea Warfare Center, 1176 Howell St., Newport, RI 02841-1708 via the Lecturer-in-Charge, Mr. Alfonso Guzmán-Vázquez.

LOCATION: Classes will be held in the Hill Building, Building NE-80, Room 1409 at 1 Hampshire Street, Cambridge, MA. The classroom is adjacent to MIT’s main campus at The Charles Stark Draper Laboratory. Click here for a map of relevant locations for the course.

COURSE ELIGIBILITY AND CLASSIFICATION: Applicants are expected to have mature technical backgrounds which, either through experience or education, is at least equivalent to graduate education. This course is classified SECRET/NORFORN. It is open to active-duty U.S. military, U.S. government employees, and U.S. civilian contractor personnel with U.S. government sponsorship. It is NOT open to foreign nationals. A SECRET security clearance is required. A current U.S. Government ID or current Passport will be required each day to obtain a badge for classroom access. The course is limited to 40 students. Students with appropriate clearances that are outside of DoD must apply by 30 April 2024 to allow time for ‘need to know’ to be established and approval received through appropriate channels.

APPLICATION AND TUITION PAYMENT: Course enrollment is limited. Seats are reserved in order of receipt of complete applications with ‘confirmation of enrollment’ upon receipt of payment or obligation of funding through your training coordinator (SF-182).

Note: If course demand is high, we reserve the right to release any unconfirmed enrollments in order to provide a wait-listed student an opportunity to attend. Nominally will do so three weeks before course start date. However, we will make every effort to notify you beforehand and request your intentions.

Flexible payment options, including:
1) Wire transfer
2) Credit card (VISA, MasterCard, Discover Card, American Express)
3) Check
Please see detailed directions on our website for application and payment. Link on upper right of the 2N course webpage http://2n.mit.edu/ or direct to link of http://naval-pro-summer.mit.edu/

It is critical that you provide the name of your training coordinator and/or the person who will be making the tuition payment on your application as we must receive payment in order to hold your place in the course – without payment (or obligated funds via approved SF-182) we may need to release your seat to someone else on the wait list.

In advance of payment, a training officer approval (block 3b of SF182) obligating funds is accepted to confirm enrollment. Full payment is due MIT at least one week before course.

CANCELLATION: Cancellations within ONE (1) week of the first day of the course will be subject to a $100.00 charge. Substitution by another applicant will be allowed provided an application is received and their security clearance is processed by Draper Laboratory.

ACCOMMODATIONS: Course tuition DOES NOT include accommodations. Each student must arrange his or her own transportation and hotel accommodations. Hotel space in Cambridge is very limited during the summer, so early advance reservations are strongly recommended. We have reserved a small block of rooms at the government rate at a local hotel which is located a short walking distance from the classroom and provides convenient access to the MBTA Red Line at the Kendall/MIT station. We will send you information about our hotel block when we confirm enrollment and payment (or obligated funds via approved SF-182) in the course. The hotel will release the hold on any unclaimed rooms FOUR (4) weeks prior to the first day of the course. Car rental is neither necessary nor recommended.

STUDENT ATTIRE: Business casual. Students are advised to bring a sweatshirt, sweater or jacket in the event that the classroom is cold.

REFRESHMENTS: Continental breakfast will be provided in the morning and a light snack each afternoon. Lunch will be provided on those days when working lunches/guest speakers are scheduled.

POINT OF CONTACT: If you have any questions, please contact the Naval Professional Summer Coordinator at 617-324-2237 or by e-mail to profsum@mit.edu.

EMERGENCY CONTACT INFORMATION: During class, students may be contacted by leaving a message at 617-258-2285 or by e-mail at dsegall@draper.com.

PORTABLE ELECTRONIC DEVICES: This course is CLASSIFIED. The classroom will be managed as a CLOSED AREA at all times during the period of instruction. Among other restrictions, this means that no recording devices or other electronic devices will be allowed into the room unless prior arrangements have been made. Such arrangements must be made at least three weeks prior to the first day of class. Personal electronic equipment must be left outside the classroom. The area will be guarded, but will NOT be locked. Please keep this in mind when deciding what to bring with you and what to leave in your hotel room. Examples of personal electronic equipment that are NOT allowed in the classroom: laptops, PDAs, iPods, calculators, wireless fitness trackers (such as Fitbit, Basis Peak, or Jawbone Up), cell phones, i watches, cameras, and flash drive memory sticks. NOTE that this is not an all-inclusive list. If you have a Portable Electronic Device not listed here, do not hesitate to ask Draper Security prior to bringing the device inside the classroom.
If you require a medical assist electronic device, arrangements can be made to allow these in the classroom. Please contact Draper at (617) 258-2285 or dsegall@draper.com at least three weeks prior to the first day of class.

VISIT REQUESTS:
Visit requests can be sent via two methods and should be sent no later than three weeks prior to your class in order to ensure adequate processing time.

1. **Preferred Method:** Visit requests can be sent via DISS SMO Code 519934. Please ensure that the following is included in DISS visit requests:
   a. POC: John Mich/MIT ProSummer
   b. Valid dates (length of the course/visit only)
   c. POC phone number: 617-258-1459
   d. In the Visit Notes section, specify whether you are an instructor or student and enter name of the course you are teaching or attending

2. If you cannot use DISS, visit requests can be faxed to (617) 258-2000. Faxed visit requests must contain the following information.
   a. Employer’s Name
   b. Employer’s address, Phone Number and CAGE Code.
   c. Visitor(s) Full Name
   d. Social Security Number
   e. Citizenship
   f. Date and Place of Birth
   g. POC: John Mich/MIT ProSummer
   h. Valid dates (length of the course/visit only)
   i. Purpose: (Specify whether you are an instructor or student and enter the name of the course you are teaching or attending.)
   j. Clearance Information

If you need to confirm that your visit request has been received and is in order, please contact Draper’s Personal Security Office at persec@draper.com or (617)-258-3105.

In addition, this course includes a day trip to Naval Undersea Warfare Center located in Newport RI.

**NUWC VISIT REQUESTS:**
- A visit request is **MANDATORY** for all visitors to NUWC Division Newport; government and civilian, regardless of the duration or classification of the visit. Access to NUWC Division Newport will not be granted under any circumstances without a valid visit authorization request (VAR) on file.
- If you can submit your VAR via DISS, you do not need to send a VAR on company letterhead.
- Due to the number of visit requests received, please allow 3-5 business days for processing time, whether received by DISS or on Company Letterhead via FAX or EMAIL.
- Visitors who arrive prior to the 3-5 working day processing window may not be guaranteed access.
- Please note, all individuals not in possession of a common access card (CAC) or Teslin Card (Retired Military/Dependent ID), will require a DBIDS card for access.
- No unescorted access will be granted without a valid DBIDS card or ID mentioned above.
  - DISS is the preferred method for submitting visit requests
  - The Security Management Office (SMO) for visits is 666045
  - Technical POC: Alfonso Guzman-Vazquez
Include ‘Cybersecurity Bootcamp Course’ in POC Phone Number

Date of visit (only list single date): 23 June 2023

Questions may be addressed to NUWCDIVNPT Security Division at 401-832-2551. Additional POCs Robin Spradling at 401-832-7786 and Deanna Monell at 401-832-7408.

For those that are unable to use DISS, a visit request must be FAXED to the NUWC Division Newport Security Division at 401-832-4396 on company letterhead containing the following information:

- Visitor’s full name (Last, First, Middle Initial)
- Company or Organization Name – complete address, phone number, fax number & CAGE code
- Visitor’s Social Security Number – This information is protected by the Privacy Act of 1974
- Visitor’s Date of Birth and Place of Birth (city/state)
- Citizenship
- Individual’s Level of Clearance Access – This information is verified using DISS
- Specific Date(s) of Visit (include the year): 23 June 2023
- Technical Point of Contact (POC) at NUWC Division Newport (include name & phone number)
- Specific Purpose of Visit (include classification of visit): Cybersecurity Bootcamp Course
- Name, Title and Signature of authorizing company official (may NOT be one of the listed visitors)

Note: In addition, either a CAC, DBIDS, or Military ID will be required to gain entrance into the NUWC Facility.