



**NPS Fleet Concentration Areas**  
 QUARTERLY NEWSLETTER  
 NAVAL POSTGRADUATE SCHOOL— SPRING 2019

# Distance Learning

## OFFERING OVER 40 DISTANCE LEARNING CERTIFICATE & MASTERS DEGREE PROGRAMS

Online applications are currently being accepted for the following programs. Deadlines for Applications vary, but are rapidly approaching! **Tuition is free for Naval Officers.**

### PROGRAMS STARTING IN 2019:

#### MASTERS DEGREE PROGRAMS:

**Master of Systems Analysis Degree Program (MSA, Curriculum 363, starts Fall/Spring):** The MSA program is designed to meet the needs of the Navy and other services in the Department of Defense (DoD) for technical graduate education in systems analysis as a basis for aiding key decisions on force requirements, weapons systems, and other defense matters. Students acquire foundation skills and hands-on experience in all aspects of analytical studies. MSA grads earn the Navy 3210P subspecialty code, Operations Research Analysis. NAVADMIN 123/17  
 Point of Contact: [MSADEGPROG@NPS.EDU](mailto:MSADEGPROG@NPS.EDU) or [CED3STUDCOORD@NPS.EDU](mailto:CED3STUDCOORD@NPS.EDU)

**Executive Masters of Business Administration (EMBA, Curriculum 805 mil, 807 civ, starts Fall/Spring):** This program is a defense-focused general management program. The program design and course work capitalizes on the current managerial and leadership experience of program participants. The EMBA is a 24-month, part-time, distance learning degree program. Classes meet once a week, approximately 6-7 hours per day, depending on course units. NAVADMIN 057/17  
 Point of Contact: [CCHART@NPS.EDU](mailto:CCHART@NPS.EDU)

**Master of Science Engineering Science (Mechanical Engineer) (MSES-ME) Degree Program (Curriculum 572):** This masters provides students with scientific and technical knowledge of mechanical engineering. Students will gain an understanding of the role that engineering and technology have in military operations environment. Emphasis is on naval engineering and its applications to surface vessels, submarines, and spacecraft.  
 Point of Contact: [MSESMEDL@NPS.EDU](mailto:MSESMEDL@NPS.EDU)

**Systems Engineering Non-Resident Master's Degree Program (SENonResDeg, Curriculum 311, starts quarterly):** The SE Non-Resident Degree Program is designed for DoD organizations faced with a wide range of systems engineering and integration challenges. These commands can now partner with NPS to educate and train engineers with tools and technologies relevant to their work, resulting in employees with greater knowledge and expertise to enable them to better meet the needs of their customers. This is a 24-month, part-time, distance learning degree program  
 Point of Contact: [CED3STUDCOORD@NPS.EDU](mailto:CED3STUDCOORD@NPS.EDU)

#### CERTIFICATE PROGRAMS:

**Cyber Warfare Graduate Certificate Program (Curriculum 288, Starts Quarterly):** This program provides students with a technical foundation that prepares them for assignments related to research and management of wired and wireless cyber warfare systems, and for leadership roles in the area of cyber warfare. This coherent program provides a mixture of instruction and computer-based laboratories which offer students the opportunity to explore concepts and investigate applications in cyber warfare areas.  
 Point of Contact: [RCRISTI@NPS.EDU](mailto:RCRISTI@NPS.EDU)

**Network Operations and Technology—Operations (NWOT) Curriculum 271):** The NWOT-OPS Academic Certificate Program at NPS provides advanced education in the operational arts designed to defend our global C2. In support of The Navy's Cooperative Strategy for 21st Seapower. It accomplishes this through its four courses: Command and Control (CC3000), Space Operations (SS3011), Network Operations I (IS3502), and Information Operations (IO3100). For more information on the NWOT-OPS program please visit [https://my.nps.edu/web/dl/cert\\_NWOT-OPS](https://my.nps.edu/web/dl/cert_NWOT-OPS)  
 Point of Contact: [NWOTCERT@NPS.EDU](mailto:NWOTCERT@NPS.EDU)

**Space Systems Certificate Program (SS):** Space assets are essential to modern warfare. The SS certificate provides the foundation to understanding the integration of space capabilities across combined armed forces, involving networks, sensors, and weapons. Students who complete the certificate will be awarded the 6206-L Space Systems Operations subspecialty code. Point of Contact: [CED3STUDCOORD@NPS.EDU](mailto:CED3STUDCOORD@NPS.EDU)

**Anti-Submarine Warfare (ASW) (Curriculum 274):** This certificate provides a science and engineering foundation which covers fundamental concepts in our areas: Physical Oceanography, Signal Processing, operations Research, and Engineering Acoustics. These subjects are the educational cornerstone for this highly interdisciplinary certificate program.  
 Point of Contact: [RCRISTI@NPS.EDU](mailto:RCRISTI@NPS.EDU)

**Human Systems Integration (Curriculum 262)** Human Systems Integration (HIS) acknowledges that the human is a critical component in any complex system. It is an interdisciplinary approach that makes explicit the underlying tradeoffs across the HIS domains (and, in particular, manpower, personnel, training, and human factors engineering) to optimize total system performance with the constraints of cost, schedule, and risk.  
 Point of Contact: [HSICERTPROG@NPS.EDU](mailto:HSICERTPROG@NPS.EDU) or [CED3STUDCOORD@NPS.EDU](mailto:CED3STUDCOORD@NPS.EDU)

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# NEWSLETTER

NAVAL POSTGRADUATE SCHOOL – FLEET CONCENTRATION AREAS  
SPRING 2019



Prof. Todd Weatherford (right) and Lt. Cmdr. Rich Butler inspect a prototype pulse detonation engine.

## RESIDENT PROGRAM IN THE SPOTLIGHT:

### Electrical and Computer Engineering (ECE):

The Electrical and Computer Engineering (ECE) department was designed to keep up with the uncertainties and challenges of a rapidly changing technical world. As a student in ECE, you will tailor your curriculum to a variety of disciplines to include cyber systems, electrical warfare, electrical ships power systems, and communications. You will conduct state of the art research that will have a direct application to your military career and beyond. VADM Jan Tighe, former Deputy CNO for Information Warfare, Director of Naval Intelligence is an ECE graduate. She states, “the demand signal from the leadership across the Navy has never been as strong as the demand we’re getting for the skills that you are developing here.”

The ECE department offers multiple certificate and degree programs, including the Masters of Science in Electrical Engineering (MSEE) which is accredited by the Engineering Accreditation Commission of ABET. For more information about the programs offered visit: <https://my.nps.edu/web/ece/nps-ece-distance-learning-program>

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## DISCOVER NPS

### *Distance SECNAV Kicks Off Latest Board of Advisors Meeting By MC2 Michael Ehrlich edited by Elizabeth Kamosa and Ashley Burrow*

During his travels through the West Coast, Secretary of the Navy Richard V. Spencer made a brief stop at the Naval Postgraduate School (NPS), to welcome the university’s Board of Advisors, and provide a first-hand perspective on the board’s critical role with NPS, especially with the recently-announced changes to Navy education through the Education for Seapower (E4S) study. “Where I see the tremendous value of all these minds around the table right now is supporting the NPS president as she unfolds her plans for this organization,” said Spencer. “And we have some pretty bold plans,” he continued.

“We all have an interest in ensuring that NPS endures as the preeminent, postgraduate research and education institution and the first choice for the Navy and Marine Corps and our partners,” said Spencer. “but going even further, I want this institution to be the primary education and research enterprise for a partnership with the private sector, government sector and academia coming together at the research level.” The E4S study, and its subsequent findings, he said, are an opportunity for the Navy and Marine Corps to link these together. “I truly believe that we defy math by making one plus one equal three when we put our efforts together,” he said. Over the next two days, the Board will review details from the E4S study and other key issues and opportunities for the university.

With board members from all branches of service, both active duty and retired, along with civilian, academic and defense industry leaders, the Board of Advisors is a federal advisory board directed to provide guidance, advice and advocacy to the university as it executes its mission of graduate education and research.

