



NPS Fleet Concentration Areas
 QUARTERLY NEWSLETTER
 NAVAL POSTGRADUATE SCHOOL- JANUARY 2020

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 2020:

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 or 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 for senior Department of Navy officers and senior Department of Navy civilians. 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: HTARABIS@NPS.EDU

Mechanical Engineering for Nuclear Trained Officers (Curriculum 572)

(Continuous Enrollment): This program provides the opportunity for nuclear trained naval officers (who have successfully completed Naval Nuclear Power School, officers course) to obtain a Master of Science in Engineering Science with a major in Mechanical Engineering MSES (ME), while on sea or shore duty. This is a non-thesis program, but a capstone research or design project is required. This Distance Learning program is offered primarily via asynchronous course packages, in which pre-recorded lectures are provided to students on DVD's and the student communicates directly with the professor. Synchronous course options are offered via VTC when available.

Point of Contact 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: CED3BURSAR@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 computed-based laboratories which offer students the opportunity to explore concepts and investigate applications in cyber warfare areas.

Point of Contact: RCRISTI@NPS.EDU

Anti- Submarine Warfare (ASW) (Curriculum 274, starts Spring): 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

Human Systems Integration (Curriculum 262) Human Systems Integration (HSI): This program 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 or CED3STUDCOORD@NPS.EDU

Space Systems Certificate Program (Curriculum 273)

(Starts in Fall/Spring): Space assets are essential to modern warfare. The Space Systems Certificate provides the foundation to understanding the integration of space capabilities across combined armed forces, involving networks, sensors, and weapons. The certificate course sequences covers MILSATCOM, remote sensing, physics of the space environment, and orbitology, providing knowledge, and insight to exploit the combat advantage provided by current and future space-based resources.

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To apply please visit:

<http://www.nps.edu>

Refer to:

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NEWSLETTER

NAVAL POSTGRADUATE SCHOOL – FLEET CONCENTRATION AREAS
JANUARY 2020



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 DAY

In Memoriam: Legendary Strategist and Fleet Tactics Author Wayne P. Hughes

BY MC2 Taylor Vencill

Hughes was a fundamental figure in naval warfare, and influenced how the U.S. Navy conducts naval operations through many of his published works, most notably, “Fleet Tactics and Naval Operations.”

“The best litmus test you can do on the impact that Wayne has had is in the fact that the past seven or eight Chiefs of Naval Operations (CNO) have known him by name,” said Hughes’ longtime friend and colleague retired Navy Capt. Jeff Kline, also an NPS Professor of Practice in operations research. “His writing has inspired both tactical and operational thought throughout the fleet.”

When former CNO Adm. John Richardson asked Hughes to write a third edition of “Fleet Tactics,” Hughes gladly obliged. Richardson specifically asked him to include several chapters codifying the importance of information warfare within naval warfare at the operational level.

“When people need a reference for the next 15 to 20 years on information and cyber warfare, they’ll pull this book off of the shelf,” said Kline.

Hughes, a 1952 graduate of the U.S. Naval Academy, commanded the minesweeper USS Hummingbird and destroyer USS Morton, and served as Chief of Naval Education and Training Support, Deputy Director of the Systems Analysis Division in the office of the CNO, and was the Executive Assistant to the Undersecretary of the Navy. Added Kline, one phrase out of Hughes’ work and career will always stand out, “Fire effectively first.”

“I think that single phrase is probably the most quoted part of Wayne’s work,” said Kline. “In fact, that is the ultimate objective of Navy tactical warfare, to ‘fire effectively first.’ I think of anything else, that simple phrase and what it means will probably have the most lasting impact.”

While Hughes’ intellect and legacy will continue on for generations, the university proudly featured the iconic strategist discussing the core principles of Fleet Tactics in the inaugural “[Seapower Conversations](#)” YouTube series, released last month. In what will be an ongoing effort, Seapower Conversations highlights the expertise of NPS faculty through informal dialogue on the trends, technologies and tactics that shape modern seapower.

While that common site of Professor Hughes and his smoldering pipe reviewing papers in the Glasgow Hall courtyard may physically not be with us, Hughes legacy as a strategist, a gentleman and a patriot will live on this campus, forever.