



NPS Fleet Concentration Areas
QUARTERLY NEWSLETTER
NAVAL POSTGRADUATE SCHOOL- JANUARY 2021

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 2021:

MASTERS DEGREE PROGRAMS:

Master of Systems Analysis Degree Program (MSA, Curriculum 363, starts March 2021):

This program is a part time 24-month program delivered with a blend of distance learning methods. Students take two courses per quarter. One course is delivered asynchronously using web-based instruction and one course is delivered synchronously using video tele-education (VTE). The second course each quarter is delivered synchronously, via a once-per-week live 3-hour session Thursdays from 0800-1100 (PST). Navy officer graduates receive a 3210P subspecialty code, Operations Research Analysis, and are eligible to be detailed to 3211-coded Operations Analysis billets, and OPNAV6511-coded requirements billets.

Point of Contact: MSADEGPROG@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, starts quarterly):

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: SENONRESDEG@NPS.EDU or GEACSTUDCOORD@NPS.EDU

CERTIFICATE PROGRAMS:

Systems Analysis Certificate Program(Curriculum 281): The SA Cert program is a 12-month, part-time program, one course per quarter for four consecutive quarters, delivered asynchronously using web-based instruction. This cert is designed to broadly expose students to systems analysis tools that they can immediately apply in current assignments requiring critical thinking and analytical skills. Navy officer grads receive a 3210L subspecialty code, Operations Research Analysis. This is a stand-alone non-degree program.

Point of Contact: MSADEGPROG@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, starts Fall) 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 GEACSTUDCOORD@NPS.EDU

Space System Fundamentals Certificate Program (Curriculum 273, starts in

Fall/Spring): The Space Systems Fundamentals Certificate is designed to broadly expose students to the role of space systems in the DoD and to give them skills and tools that they can immediately apply in current assignments requiring critical thinking and analytical skills. Navy officer graduates receive a 6206-L subspecialty code, Space Systems Operations. Significant portions of the Navy Space Cadre PQS are also covered.

Point of Contact: SHTACKET@NPS.EDU or CED3STUDCOORD@NPS.EDU

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To apply please visit:

<http://www.nps.edu>

Refer to:

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NEWSLETTER

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JANUARY 2021



Hermann Hall at NPS

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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NPS Supports FVEY Efforts to Streamline Space Technologies

NPS is a leader in graduate education and research in the field of space systems ... in fact, more NASA astronauts have graduate-level degrees from NPS than any other institution in the world. With its two Space Systems Master of Science programs and multiple certificate programs all under the Space Systems Academic Group (SSAG), the university has developed a robust capability for both education and innovative research in the field.

Dr. Jim Newman, professor and chair of the SSAG, is also a former NASA astronaut and a veteran of four Space Shuttle flights. Since 1961 when NPS graduated its first astronauts, Space Systems education programs have grown in size and intricacy, as Newman discussed in a recent episode of the university's Listen Learn, lead series with NPS President retired Vice Adm. Ann E. Rondeau.

Not Only do they involve understanding the physics behind launching and maintaining technology in he says, they also require understanding international diplomacy. To accommodate this, the Space Systems program is split into two curricula: Space Systems Engineering and Space Systems Operations.

The engineering program strictly focuses on building technical skills and knowledge surrounding military and Navy space systems, while the operations program encompasses military operations and applications in space.

Students of both Space Systems majors often work together on hands-on research projects. This is true for the international CubeSat project. For example, one of Lan's engineering students, Navy Lt. Logan West, is completing his thesis work designing one of the payloads before he graduates and returns to the fleet in December. The payload has an X-band transmitter to begin the transition from congested traditional communication frequencies to X-band, which has better bandwidth and data range. West's work will be picked up by one of Lan's operations students, Navy Lt. Allyson Claybaugh, who will focus more on the ground-based receiver to make sure it properly communicates with the payload once it's in space.

West says he will continue to monitor the project's progress after graduation.

"It'll just be cool to know that I had a direct hand in something that is going to launch," West says. "I will

definitely be following up with Dr. Lan to make sure I know the status and how it's progressing."

Looking ahead, West hopes to one day see his name on the list of NPS alumni that become NASA astronauts ... the university boasts more astronaut grads than any graduate school in the world. But beyond the pinnacle goal of space travel, most students in the Space Systems programs go on to work in a related field after graduation, and some even post payback tour. Regardless, all students are expected to bring back what they've learned to their respective services.

"The big-ticket item from my side is to bring that knowledge about space capabilities back to really smarten us [SEALS] up and figure out ways it can impact our domain," West explains.

To read more about Interdisciplinary, Cutting-Edge Space Education and Stream Lining Space Technology at NPS tune into the university's Listen Learn, lead series or go to <https://nps.edu/-/nps-supports-fvey-efforts-to-streamline-space-technologies>

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