Systems Engineering Distance Learning Education Summit
30 November 2021
by
Dr. Wally Owen
Associate Chair for Distributed Programs & Outreach
Dr. Warren Vaneman
Dep Associate Chair for Marketing, Outreach & Engagement
Welcome to our Education Summit

• Spring 2022 Program Offerings.
• Looking ahead to the Summer 2022.
For organizations with a strategic vision to provide world-class systems engineering, systems integration and systems engineering management services

Recognized as a leader in field of distance learning (DL)

Each DL course offer as one continuous (3) hour web-conferencing session one day per week (times/days vary)

All web-conferencing sessions are recorded

Typical certificate program offered as one course per quarter (4 total) consecutively over four quarters

Typical degree program offered as two courses per quarter (16 total) over eight consecutive quarters or as four stackable certificates

All SE and SEM programs accredited by WASC and MSSE degree also accredited by ABET
Distance Learning Implementation

- Collaborative Learning Environment
  - Sakai web-based courseware

- Multiple Teaching Types for DL Education
  - Synchronous/Asynchronous Web Browser Based
    - Zoom for Gov and/or MS Teams used for teaching synchronously
      - Video, Voice, Chat, Desktop Sharing
    - Sakai used for teaching asynchronously

- SE Computer Lab Available Worldwide

- NPS Library Resources Available Worldwide
  - Books, Journals, Databases all on-line

- On-Site Face-to-Face Classrooms
  - Classroom facilities located in Washington, DC (Pax River, MD) and San Diego, CA
Stackable Certificate Overview

• The SE Department has partitioned its DL program offerings into stackable certificates

• Stackable certificates enhances the value proposition:
  – Sponsors can fund only those academic certificates for which they have an immediate need
  – Students will be able to earn a MS degree by stacking together academic certificates

• Supports Navy advanced education strategic plan and the new Engineering & Technical Management (ETM) functional area competency framework
  – Offers a customization approach to provide systems engineering and systems engineering management advanced education options for workforce development
  – Provides a graduate degree path for students that have earned certificates from other departments or schools
• SE offers DL graduate certificates and degree programs that are tailorable to sponsors and their students
• Stackable certificates can meet master’s degree curricula requirements leading to MSSE, MSES or MSSEM degrees
• Certificates are identified by tiers and are typically taken in sequence but may vary by certificate
• Each tier certificate can be tailored dependent on the ultimate curricula (311 or 711) and degree desired
SE Stackable Certificates

- 282 Systems Engineering (Fundamentals)
- 232 Lead Systems Integration (Domain Specialty)
- 242 Reliability & Maintainability Engineering (Domain Specialty)
- 130 SE Capstone (SE Advanced)
- 131 Systems Capability & Design (SE Core)
- 132 System of Systems Engineering (Domain Specialty)
- 133 Model-based Systems Engineering (Domain Specialty)
- 134 Aviation Systems (Domain Specialty)
- 135 Systems Test & Evaluation (Domain Specialty)
- 136 Directed Energy Systems (Domain Specialty)
- 137 System Safety Engineering (Domain Specialty)
- 138 Digital Engineering (Domain Specialty)
- 170 SEM Capstone (SEM Advanced)
- 171 Systems Integrated Development (SEM Core)
- 172 Systems Technology & Advancement (Domain Specialty)
- 173 Systems Program Management (Domain Focus - in Cert Review)
Tier 1 SE / SEM Fundamentals Certificate
- 282 Systems Engineering

Tier 2 SE/SEM Core Certificates
(Choose one)
- 131 Systems Capability & Design
- 171 Systems Integrated Development

Tier 3 SE/SEM Domain Specialty Certificates
(Choose one)
- 132 System of Systems Engineering
- 133 Model-based Systems Engineering
- 134 Aviation Systems
- 135 Systems Test & Evaluation
- 136 Directed Energy Systems
- 137 System Safety Engineering
- 138 Digital Engineering
- 172 Systems Technology & Advancement
- 173 Systems Program Management
- 232 Lead Systems Integration
- 242 Reliability & Maintainability Engineering
- Certificates from other departments such as Data Science, Robotics, Defense Energy, and others in development

Tier 4 SE / SEM Advanced Capstone Certificates
(Choose one)
- 130 Systems Engineering Capstone
- 170 Systems Engineering Management Capstone

Master’s Degree Options
- MS in Systems Engineering
- MS in Engineering Systems
- MS in Systems Engineering Management
<table>
<thead>
<tr>
<th>Qtr</th>
<th>Yr/Qtr</th>
<th>Course Title</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>Fundamentals of Systems Engineering</td>
<td>Probability and Statistics for SE</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>Fundamentals of Engineering Project Management</td>
<td>Capability Engineering</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>System Suitability</td>
<td>Engineering Economics and Cost Estimation</td>
</tr>
<tr>
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<td>SE CERT Focus Course and/or</td>
<td>Systems Architecture and Design</td>
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<tr>
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<td></td>
<td>Systems Architecting and Design</td>
<td></td>
</tr>
<tr>
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<td>SE Domain Specialty Track</td>
<td>System Integration and Development</td>
</tr>
<tr>
<td>6</td>
<td></td>
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<td>SE Capstone Project- I</td>
</tr>
<tr>
<td>7</td>
<td></td>
<td>SE Domain Specialty Track</td>
<td>SE Capstone Project- II</td>
</tr>
<tr>
<td>8</td>
<td></td>
<td>SE Domain Specialty Track</td>
<td>SE Capstone Project- III</td>
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</table>

**Tier I**
- SE Certificate

**Tier II**
- SE Core Certificate

**Tier III**
- SE Domain Certificate

**Tier IV**
- SE Capstone
## Stackable Certificate 711 Design

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<thead>
<tr>
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<th>Course Title</th>
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<tr>
<td>1</td>
<td></td>
<td>Fundamentals of Systems Engineering</td>
<td>Intro to Digital Engineering with Model-Based Systems Engineering</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>Fundamentals of Engineering Project Management</td>
<td>Probability and Statistics for HSI</td>
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<tr>
<td>3</td>
<td></td>
<td>System Suitability</td>
<td>Engineering Economics and Cost Estimation</td>
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<tr>
<td>4</td>
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<td>SE CERT Focus Course and/or</td>
<td>Human Factors in Systems Design</td>
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<td>5</td>
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<td>SEM Domain Specialty Track</td>
<td>Risk Analysis &amp; Management of Engineering Systems</td>
</tr>
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<td>6</td>
<td></td>
<td>SEM Domain Specialty Track</td>
<td>Modeling &amp; Simulation in Acquisition</td>
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<tr>
<td>7</td>
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<td>SEM Domain Specialty Track</td>
<td>SEM Capstone Project - I</td>
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<tr>
<td>8</td>
<td></td>
<td>SEM Domain Specialty Track</td>
<td>SEM Capstone Project - II</td>
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</tbody>
</table>

### Tier I
- SE Certificate

### Tier II
- SEM Core Certificate

### Tier III
- SEM Domain Certificate

### Tier IV
- SEM Capstone
# 311 Degree Curriculum – Spring 2022

## Systems Engineering with Model-Based Systems Engineering or Systems Technology and Advancement Focus

**Commencing Tuesday, 29 March 2022**

*Program Delivered via Distance Learning*

**Sponsor Code: Open Enrollment (311-223O)**

### Course Lineup*

<table>
<thead>
<tr>
<th>Qtr</th>
<th>Year/Qtr</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>AY22/Spring</td>
<td>SE3100 Fundamentals of Systems Engineering</td>
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<tr>
<td></td>
<td></td>
<td>OS3180 Probability &amp; Statistics for SE</td>
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<td>2</td>
<td>AY22/Summer</td>
<td>SI3400 Engineering Project Management</td>
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<td></td>
<td></td>
<td>SE3250 Capability Engineering</td>
</tr>
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<td>3</td>
<td>AY23/Fall</td>
<td>SE3302 Systems Suitability</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SE3011 Eng Economics &amp; Cost Estimation</td>
</tr>
<tr>
<td>4</td>
<td>AY23/Winter</td>
<td>SE4012 Management of Advanced SE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SE4150 Systems Architecting &amp; Design</td>
</tr>
<tr>
<td>5</td>
<td>AY23/Spring</td>
<td>133-MBSE, 172-STA</td>
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<tr>
<td></td>
<td></td>
<td>SE4151 System Integration &amp; Development</td>
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<td>6</td>
<td>AY23/Summer</td>
<td>133-MBSE, 172-STA</td>
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<tr>
<td></td>
<td></td>
<td>SE3201 Engineering Systems Conceptualization</td>
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<tr>
<td>7</td>
<td>AY24/Fall</td>
<td>133-MBSE, 172-STA</td>
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<td></td>
<td></td>
<td>SE3202 Engineering Systems Design</td>
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<tr>
<td>8</td>
<td>AY24/Winter</td>
<td>133-MBSE, 172-STA</td>
</tr>
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<td></td>
<td></td>
<td>SE3203 Eng Systems Implementation &amp; Operation</td>
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## Application Deadline: 3 January 2022
Application Deadline: 3 January 2022
Systems Engineering Management with Systems Technology and Advancement Focus
Commencing Wednesday, 30 March 2022
Program Delivered via Distance Learning
Sponsor Code: Open Enrollment (711-223P)

Application Deadline: 3 January 2022

<table>
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<th>Course Title</th>
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<td>1</td>
<td>AY22/Spring</td>
<td>SE3100 Fundamentals of Systems Engineering</td>
<td>SE3050 Intro to Digital Engineering &amp; MBSE</td>
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<tr>
<td>2</td>
<td>AY22/Summer</td>
<td>SI3400 Fundamentals of Eng Project Mgmt</td>
<td>OS3111 P&amp;S for Human Systems Integration</td>
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<tr>
<td>3</td>
<td>AY23/Fall</td>
<td>SE3302 Systems Suitability</td>
<td>SE3011 Engineering Economics &amp; Cost Estimation</td>
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<tr>
<td>4</td>
<td>AY23/Winter</td>
<td>SE4012 Management of Advanced SE</td>
<td>OS3401 Human Factors in Systems Design</td>
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<tr>
<td>5</td>
<td>AY23/Spring</td>
<td>SE3910 System Evolution &amp; Tech Assessment</td>
<td>SE4353 Risk Analysis &amp; Mgmt of Eng Systems</td>
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<td>6</td>
<td>AY23/Summer</td>
<td>SE4420 M&amp;S in Acquisition</td>
<td>SEM Focused Course</td>
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<td>7</td>
<td>AY24/Fall</td>
<td>SE4980 Enterprise Systems</td>
<td>SE3211 SEM Capstone I</td>
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<td>8</td>
<td>AY24/Winter</td>
<td>SE4503 Technology Planning and Replacement</td>
<td>SE3212 SEM Capstone II</td>
</tr>
</tbody>
</table>

SE Certificate- Tier I  SEM Core- Tier II  SEM Domain- Tier III  SEM Capstone- Tier IV
# Systems Engineering Certificate with Advanced Systems Engineering Focus

Commencing on Tuesday, 30 March 2022

*Program Delivered via Distance Learning*

Sponsor Code: Open Enrollment (282-223O/P)

<table>
<thead>
<tr>
<th>Qtr</th>
<th>Year/Quarter</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>1</td>
<td>AY22/Spring</td>
<td>SE3100 Fundamentals of Systems Engineering (3-2)</td>
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<td>AY22/Summer</td>
<td>SI3400 Fundamentals of Engineering Project Management (3-2)</td>
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<tr>
<td>3</td>
<td>AY23/Fall</td>
<td>SE3302 Systems Suitability (3-2)</td>
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<tr>
<td>4</td>
<td>AY23/Winter</td>
<td>SE4012 Management of Advanced Systems Engineering (3-0)</td>
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Application Deadline: 3 January 2022
Systems Capability and Design Certificate
Commencing Thursday, 31 March 2022
Program Delivered via Distance Learning
Sponsor Code: OPEN Enrollment (131-23O)

Course Lineup

<table>
<thead>
<tr>
<th>Qtr</th>
<th>Year/Quarter</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>1</td>
<td>AY22/Spring</td>
<td>OS3180 Probability and Statistics for Systems Engineering (4-1)</td>
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<td>2</td>
<td>AY22/Summer</td>
<td>SE3250 Capability Engineering (3-2)</td>
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<tr>
<td>3</td>
<td>AY23/Fall</td>
<td>SE3011 Engineering Economics and Cost Estimation (3-0)</td>
</tr>
<tr>
<td>4</td>
<td>AY23/Winter</td>
<td>SE4150 System Architecture and Design (3-2)</td>
</tr>
</tbody>
</table>

Application Deadline: 3 January 2022
Systems Integrated Development Certificate
Commencing Friday, 1 April 2022
Program Delivered via Distance Learning
Sponsor Code: OPEN Enrollment (171-223P)

Course Lineup

<table>
<thead>
<tr>
<th>Qtr</th>
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<th>Course Title</th>
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<tbody>
<tr>
<td>1</td>
<td>AY22/Spring</td>
<td>SE3050 Introduction to Digital Engineering with Model-Based Systems Engineering (3-2)</td>
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<td>2</td>
<td>AY22/Summer</td>
<td>OS3111 Probability and Statistics for Human Systems Integration (4-0)</td>
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<tr>
<td>3</td>
<td>AY23/Fall</td>
<td>SE3011 Engineering Economics and Cost Estimation (3-0)</td>
</tr>
<tr>
<td>4</td>
<td>AY23/Winter</td>
<td>OS3401 Human Factors in Systems Design (3-1)</td>
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Application Deadline: 3 January 2022
**Lead Systems Integrator (LSI) Certificate Program**

Commencing Tuesday, 29 March 2022

*Program Delivered via Distance Learning*

Sponsor Code: OPEN Enrollment (232-223O)

### Course Lineup

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<tr>
<th>Qtr</th>
<th>Year/Quarter</th>
<th>Course Title</th>
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<tr>
<td>1</td>
<td>AY22/Spring</td>
<td>SE3411 - SoS Program Definition &amp; Concept Development (3-2)</td>
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<td>2</td>
<td>AY22/Summer</td>
<td>SE3412 - SoS Design &amp; Development (3-2)</td>
</tr>
<tr>
<td>3</td>
<td>AY23/Fall</td>
<td>SE3413 - SoS Integration, Qualification &amp; Lifecycle (3-2)</td>
</tr>
<tr>
<td>4</td>
<td>AY23/Winter</td>
<td>SE4414 - SoS Leadership in Systems Integration (3-2)</td>
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</table>

Application Deadline: 3 January 2021
Certificate in Systems Test & Evaluation
Commencing Tuesday, 29 March 2022
* Program Delivered via Distance Learning
* Sponsor Code: OPEN Enrollment (135-223O)

**Prerequisite:** Tier I- SE certificate (282) or equivalent
* **Note:** SE3900 is not required if prerequisite is met

**Application Deadline:** 3 January 2022

<table>
<thead>
<tr>
<th>Quarter</th>
<th>Year/Quarter</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>AY22/Spring</td>
<td>SE3900 Topics in Systems Engineering Analysis (3-0) *</td>
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<td>2</td>
<td>AY22/Summer</td>
<td>OS3401 Human Factors in System Design (3-1)</td>
</tr>
<tr>
<td>3</td>
<td>AY23/Fall</td>
<td>SE4003 Systems Software Engineering (3-2)</td>
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<tr>
<td>4</td>
<td>AY23/Winter</td>
<td>SE4353 Risk Analysis and Management for Engineering Systems (3-2)</td>
</tr>
<tr>
<td>5</td>
<td>AY23/Spring</td>
<td>SE4354 Systems Verification and Validation (4-0)</td>
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</table>
Systems Engineering Capstone Certificate
Commencing Thursday, 31 March 2021
Program Delivered via Distance Learning
Sponsor Code: OPEN Enrollment (130-223O)

<table>
<thead>
<tr>
<th>Qtr</th>
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<th>Course Title</th>
<th>Credits</th>
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<td>AY22/Spring</td>
<td>SE4151 Systems Development &amp; Integration (3-2)</td>
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<td>2</td>
<td>AY22/Summer</td>
<td>SE3201 Engineering Systems Conceptualization (2-4)</td>
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<td>3</td>
<td>AY23/Fall</td>
<td>SE3202 Engineering Systems Design (2-4)</td>
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</tr>
<tr>
<td>4</td>
<td>AY23/Winter</td>
<td>SE3203 Engineering Systems Implementation &amp; Operations (2-4)</td>
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Application Deadline: 3 January 2022
DEGREE PROGRAMS

• 311-224O – SE Master’s Degree with R&ME Focus
• 711-224P – SEM Master’s Degree with SPM Focus

Note: 582 - PhD in SE candidates can start any quarter

STACKABLE CERTIFICATE PROGRAMS

• Tier I (282-224O/P) – Certificate in SE with Enterprise Systems Focus
• Tier II (131-224O) – Certificate in Systems Capability and Design
• Tier II (171-224P) – Certificate in Systems Integrated Development
• Tier III (134-224O) – Certificate in Aviation Systems
• Tier III (135-224O) – Certificate in Systems Test & Evaluation
• Tier III (173-224P) – Certificate in Systems Program Management
• Tier IV (130-224O) – Certificate in Systems Engineering Capstone

The Call for Applications will be released in January 2022. Applications will be due on 28 March 2022.
Open enrollment rate: AY22 open enrollment tuition rate is $2500 per student per course w/o books. If NPS is expected to provide books then add $200 fixed fee per course for the duration of program. Tuition rate applies to all SE certificate, master’s degree and PhD programs. Tuition is required for any student enrolled in a course as of the first day of class.

Full sponsorship tiered fixed-price rate: Two tiered fixed-price options are offered to sponsors who make significant enrollment commitments. These options are offered as a result of reduced direct and variable costs associated with the commitments.

Cohort Pricing: The rate is $2000 per course w/o books. Organization commits to sponsor and fund an entire cohort of a minimum of 25 seats (not to exceed 30 per cohort) in a DL program and agrees to assume student attrition below the fixed-price floor of $50K. It is recommended that commands start with more than 25 students to minimize impacts of student attrition. If student enrollment drops to 24 or below, the price remains fixed at $50K per course for the cohort for duration of the program.

Partner Pricing: The rate is $2000 per course w/o books. Organization commits to sponsor and fund 50 or more seats across all DL programs. It is recommended that commands closely monitor the overall quarterly enrollment numbers to keep them at or above 50 seats. Should the student enrollment drop to 49 or below in any particular quarter, tuition will be fixed at the 50 seat rate. The command can then opt to revert back to open enrollment pricing or sponsor additional DL students in upcoming programs.

Short Courses: Various 1-3 day SE short courses are available not for graduate credit. The fixed price with book or handouts for 1-day is $15K, 2-day is $25K and 3-day is $30K for up to 25 seats. Special arrangements: NPS prides itself on being responsive to the needs of the Department of Defense. Any organization requesting additional program features or other special arrangements should contact the Associate Chair DPO to negotiate pricing.
People to Know

• Chair, SE Department: Oleg Yakimenko – oayakime@nps.edu
  – 831-656-2826
• Associate Chair DPO: Wally Owen - wowen@nps.edu
  – Distance Learning, Director of Programs and Business
  – 831-402-6086
• Dep Assoc Chair MOE: Warren Vaneman - wvaneman@nps.edu
  – Distance Learning, Program Manager
  – 571-364-5126
• Education Technician: Heather Hahn - hlhahn@nps.edu
  – Academic administrative support for students and sponsors
  – 831-915-9581
• GEAC Student Support: - GEACStudCoord@nps.edu
  – Program support for students
  – 831-656-3579

What to Expect from Us: Availability, Help, Advice, Action
# Systems Engineering DL Programs

## A New Stackable Approach to Customization

<table>
<thead>
<tr>
<th>SE Fundamentals</th>
<th>SE/SEM Core certs</th>
<th>SE/SEM Domain certs</th>
<th>Other Domain certs</th>
</tr>
</thead>
<tbody>
<tr>
<td>282 Certificate</td>
<td>103-SCD/107-SID</td>
<td>232/242/130s/170s</td>
<td>Data Science/Others</td>
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<tr>
<td>DL</td>
<td>DL</td>
<td>DL</td>
<td>DL</td>
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<tr>
<td>4 quarters</td>
<td>4 quarters</td>
<td>4 quarters</td>
<td>4 quarters</td>
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<tr>
<td>3 + 1 focus course</td>
<td>4 courses</td>
<td>4 courses</td>
<td>4 courses</td>
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<tr>
<td>Project-based</td>
<td>Project-based</td>
<td>Project-based</td>
<td>Project-based</td>
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<tr>
<td>Stackable</td>
<td>Stackable</td>
<td>Stackable</td>
<td>Stackable</td>
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<tr>
<td>25-30 per cohort</td>
<td>25-30 per cohort</td>
<td>25-30 per cohort</td>
<td>25-30 per cohort</td>
</tr>
<tr>
<td>Tier I Fundamentals</td>
<td>Tier II Core</td>
<td>Tier III Domain</td>
<td>Tier III- Other Depts</td>
</tr>
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### Stackable Certificates

- **Tier I- SE Fundamentals**
  - SE/SEM Capstone
  - 130-SEC/170-SEMC
  - DL
  - 4 quarters
  - 4 courses
- **Tier II- SE/SEM Core**
  - Capstone Project
  - Stackable
  - 25-30 per cohort
  - Tier IV Advanced
  - ~200 students
- **Tier III- Domain Specialty**
  - SEM Masters
  - 711/721/722
  - DL
  - 8 quarters
  - 16 courses
- **Tier IV- Advanced Capstone**
  - SE Masters
  - 311/312
  - DL
  - 8 quarters
  - 16 courses
  - PhD in SE
  - 582
  - Resident/DL
  - 12 quarters
  - 6 courses min
  - Dissertation
  - Tailored to each
  - 3 per quarter
  - ~15 students

All curricula leading to a master’s degree are designed for stackable certificate completion or can be taken as a full up DL degree program.

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WWW.NPS.EDU 24
Education
BS Naval Engineering (Management & Technology), USNA 1979
MS Management (Financial Management), NPS 1992
DPA Public Administration, Golden Gate University, 2003

NPS Experience
Faculty member since 1992
GSDM, Meyer Institute, GSEAS Department of Systems Engineering

Teaching and Academic Service Experience
NPS- Acquisition, Financial, Performance and Program Management, Public Policy, Leadership
USNA- LEAD program for Company Officers
DAU- ACQ201, SYS201 and SYS301 (DAU early days road warrior)
AA- 312 program and PO- 282, 242 and 721 programs

Associate Chair for DPO
Serve as PM for all DL programs oversee all DL functions
Manage the business of distance learning
Work closely with all NPS stakeholders and external sponsors

Active Duty Experience
Retired F4/F14 Naval Flight Officer
WESTPAC Cruise, CV64 USS Constellation (F14)
Around-the-World Cruise, CV43 USS Coral Sea (F4)
Officer Programs Officer, NRD St. Louis
Air Operations Officer, CVN65 USS Enterprise
Dr. Warren Vaneman Bio

▼ Education
- B.S., SUNY Maritime College (1986) Meteorology & Oceanography
- JPME Certificate, Naval War College (2009)

▼ NPS Experience
- Professor of Practice since 2012
- Research and teaching focus on System of Systems Engineering and Model-Based System Engineering

▼ U.S. Government Civilian Experience
- Director, International R&D
- Chief Architect
- Lead Systems Engineer
- Modeling & Simulation Lead

▼ Military Experience
- Retired U.S. Navy Reserve Captain
- Qualified Surface Warfare, Information Dominance Warfare & Space Cadre Officer