

721-171 Joint Executive Systems Engineering Management (SEM-PD21)

Curriculum Lineup for new September 2016-2018 Class

All students who successfully complete the program receive:

- 1) MS in Systems Engineering Management or MS in Product Development
- 2) Certificate of Recognition from MIT
- 3) DAU Equivalency for ENG (ACQ101, 201, PMT251, 257, SYS101, 202, 203, 302)
- 4) Each student picks an elective track that provides an additional certificate

Kickoff in Monterey: 12 - 23 September 2016

Separate Agenda provided for 2 week kickoff at NPS

Course introductions, meet faculty & graduating students,
Silicon Valley trip, attend thesis briefings and graduation

Faculty

Wally Owen, SE
Team of Faculty

QTR 1- Fall AY17: 26 Sep - 16 Dec 2016

Course

MN3108 (3-2)- Leadership in Product Development
MN3117 (4-0)- Organizational Processes
SE3810 (0-2)- Systems Engineering Seminar

Faculty

Owen/Giammarco, SE
Deborah Gibbons, BPP
Wally Owen, SE

QTR 2- Winter AY17: 5 Jan - 31 Mar 2017

Course

SI4021 (3-2)- Systems Engineering for Product Development
MN3145 (4-0)- Marketing Management
SE3810 (0-2)- Systems Engineering Seminar

Faculty

Gary Langford, SE
Becky Jones, BPP
Wally Owen, SE

QTR 3- Spring AY17: 3 Apr - 16 Jun 2017

Course

SI4022 (4-0)- Systems Architecture
SE4353 (3-2)- Engineering Risk Benefit Analysis
SE3810 (0-2)- Systems Engineering Seminar
One-week Industry visit at end of quarter

Faculty

Kristin Giammarco, SE
Mark Rhoades, SE
Wally Owen, SE

QTR 4- Summer AY17: 3 Jul - 22 Sep 2017

Course

MN3156 (4-0)- Finance & Managerial Accounting
MN3392 (4-0)- Systems and Project Management
SE3810 (0-2)- Systems Engineering Seminar

Faculty

Juanita Rendon, BPP
Charles Pickar, BPP
Wally Owen, SE

QTR 5- Fall AY18: 25 Sep - 15 Dec 2017

Course

OS3211 (4-0)- Systems Optimization
Elective Course- see tracks below
SE3810 (0-2)- Systems Engineering Seminar

Faculty

TBD, OR
TBD
Barbara Berlitz, SE

QTR 6- Winter AY18: 4 Jan - 30 Mar 2018

Course

MN4379 (4-0)- Operations Management
Elective Course- see tracks below
SE3810 (0-2)- Systems Engineering Seminar

Faculty

Varies, OR
TBD
Barbara Berlitz, SE

QTR 7- Spring AY18: 2 Apr - 15 Jun 2018

Course

SE0811 (0-8)- Thesis Research

Elective Course- see tracks below

SE3810 (0-2)- Systems Engineering Seminar

One-week Industry visit at end of quarter

Faculty

Giammarco/Owen/Berlitz, SE

TBD

Barbara Berlitz, SE

QTR 8- Summer AY18: 2 July - 21 Sep 2018

Course

SE0811 (0-8)- Thesis Research

Elective Course- see tracks below

SE3810 (0-2)- Systems Engineering Seminar

Graduation Week at NPS: Graduation is on Friday, 21 September 2018

Faculty

Giammarco/Owen/Berlitz, SE

TBD

Barbara Berlitz, SE

COURSE ELECTIVES (tracks and course sequences may change)

Advanced Systems Engineering Track

SE3302 (3-2)- System Suitability

SE3303 (3-2)- System Assessment

SE3250 (3-2)- Capability Engineering

SE4003 (4-0) - Systems Software Engineering

Human Systems Integration Online Certificate (262)

OA3411- Introduction to Human Systems Integration

OA3412- Human Systems Integration in the Acq Lifecycle

OA3413- Human Systems Integration Tools, Tradeoffs, and Processes

OA4414- Human Systems Integration Case Studies and Applications

Space Systems Online Certificate (273)

SS3011 (3-0)- Space Technology and Applications

SS3613 (3-1) - Military Satellite Communications

PH3502 (3-1) - Physics of Space and Airborne Sensor Systems

PH2514 (4-0)- Introduction to Space Environment

System of Systems Track

SE4950 (4-0) System of Systems Engineering

SE4980 (4-0) Enterprise Systems Engineering

SE4930 (3-2) Model-Based Systems Engineering

SE4003 (3-2) Systems Software Engineering

Systems Analysis Online Certificate (281)

OS2080 (3-0) - Probability and Statistics I

OS3380 (3-1) - Combat Systems Simulation

OS3680 (4-0) - Naval Tactical Analysis

OS4680 (4-0) - Naval Systems Analysis

Advanced Systems Architecting Track

SE4150 (3-2) Systems Architecture and Design

SE4151 (3-2) Systems Integration and Development

SE4935 (4-0) Formal Methods for Systems Architecting

SE4930 (3-2) Model Based Systems Engineering

Systems Acquisition Track (Equivalent with DAU PMT352)

All 7 courses required for equivalency. Prof. Owen coordinates scheduling based on course availability.

MN3303 (4-0)- Contracting or equivalent

MN4307 (4-0)- PM Policy & Control or equivalent

MN3155 (2-0)- Financial Mgmt for Acq Mgrs
MN4602 (2-0)- Test & Evaluation
MN3361 (2-0)- Information Technology & Software Acquisition
MN3363 (2-0)- Manufacturing and Quality Mgmt
MN3365 (2-0)- Acquisition Logistics Mgmt & Program Sustainment