

Distributed Learning Master of Science in Cost Estimating and Analysis

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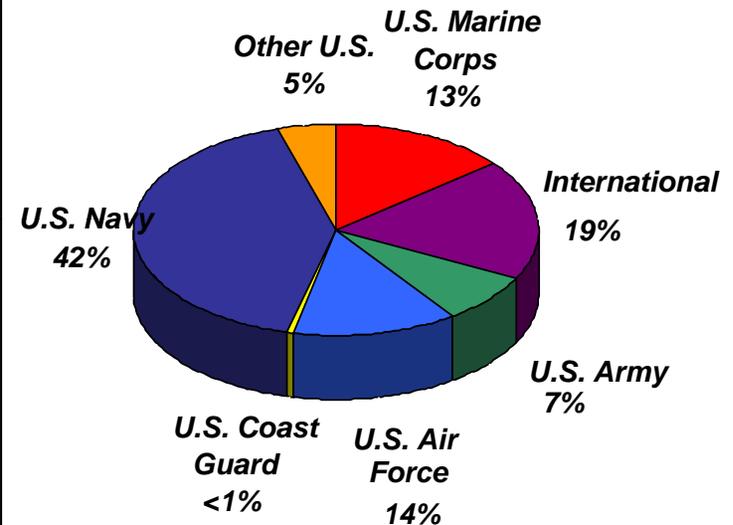
Agenda

- Who we are
- What we are doing
- How we are doing it
 - Curriculum
 - Curriculum matrix
 - Schedule
- The way forward
- Solicit your comment and criticisms

NPS--100 Years of Graduate Military Education



- **Accredited:**
 - WASC, ABET, AACSB, NASPAA
- **Operationally Relevant**
 - Unique advanced education and research programs increasing the combat effectiveness of U.S. and Allied armed forces
- **Accomplishing the Mission**
 - Program of Record focused graduate schools, institutes, and research centers.
 - Education built on operational experience
 - An innovative environment: solutions to current, near-term and long-term national security needs.
 - Opportunity to experiment with the latest operational technologies in an academic environment.



- Postgraduate Masters, Engineering and Doctorate Degrees
- Programs renewed every two years based on emerging requirements
- Clear focus on military systems and applications



NPS Alumni

- **43,000 Graduates**
 - Representing all U.S. Military Services and many U.S. Government agencies
 - 4031 international officers from 84 countries
 - 34 Astronauts
 - 25% of U.S. active-duty Flag and General Officers
- **More than 50,000 Nondegree Participants**



ADM Michael Mullen
Chairman, JCS



General Michael Hagee
Commandant
U.S. Marine Corps



King Abdullah of Jordan



What we are doing

- Developing a Distributed Learning Cost Estimating Masters Program
 - Masters (16 courses)
 - Certificates (4 courses)
 - DAWIA/DAU Level III Certification
- NPS with AFIT support
- Open to all personnel sponsored by a military command
 - Civilian
 - Military (officers and enlisted)
 - Contractor



Why is this program important?

- Cost Estimating is in the DoD spotlight
 - Weapons System Acquisition Reform Act of 2009
 - Combines OSD PAE and the Cost Analysis Improvement Group (CAIG) into **Director of Cost Assessment and Program Evaluation**, with two deputy directors:
 - Dep Dir for Cost Assessment.
 - Dep Dir for Program Evaluation
 - The Director [DCAPE] is a new position, Senate confirmable, reporting directly to SECDEF, with annual Congressional reporting requirements.
 - Large expansion underway in DoD cost estimating cadre.
 - Many of the new hires will be new to government BA/BS's, untutored in DoD /clueless about cost estimating.
 - There are also cadres of GS12-15's who are already cost estimators, but who lack formal education in the field.



Stakeholders

- Initial Request (and funding received) from NAVSEA and NAVAIR
 - Collaboration with AFIT
- Strong Stated Interest/Support
 - Deputy Assistant Secretaries: Navy, AF and Army
 - SES Flag Level: USMC, DAU, OSD/CAPE



Program Overview

- Two year program
 - 2 classes per quarter
 - 4 quarters per year
- Delivery modes
 - Asynchronous
 - Synchronous
 - Elluminate or VTE
 - Classes meet during week
- NPS supported by AFIT

Curriculum Overview



■ Foundational courses

- Probability and Statistics (2 Courses)
- Operations Research for Cost Analysts
- Fundamentals of Acquisition
- Defense Financial Management and Budgeting (2 Courses)
- Logistics Engineering
- Systems Engineering (2 Courses)

■ Cost Estimating

- Cost Estimating I, II, and III
- Risk and Uncertainty
- Cost Estimating Case Studies

■ Capstone Project

Proposed Matrix

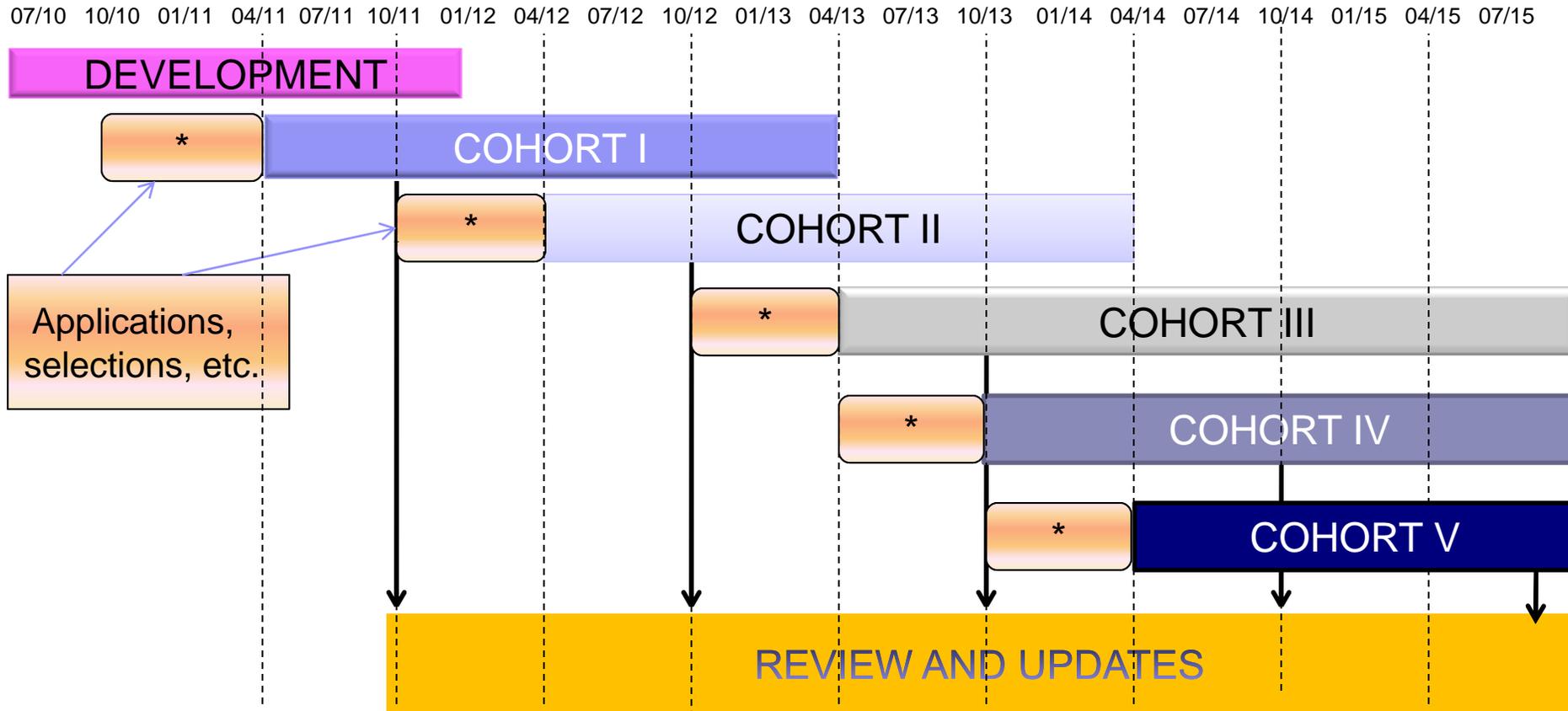


Course Name	Status	Faculty POC	Notes	Quarter	PreReqs
OS 2080 Probability and Statistics I	Async, Minor Modification	T. Hamrick, NPS		Mar 2011	Calculus
OS 3006 Operations Research For Cost Analysts	Synch, Major Modification	D. Schiffman, NPS	Certificate		None
MN 4053 Defense Budget and Financial Management Policy	Async	D. Doyle, NPS	Certificate	Jul 2011	None
OS 3080 Probability and Statistics II	Synch, Minor Modification	T. Hamrick, NPS			OS 2080
MN 3510 Defense Financial Management Practice	Async	P. Candreva, NPS		Sep 2011	MN 4053
OS 3702 Cost Estimation I	Synch, New Course	G. Mislick, NPS	Certificate		Prob & Stats
SE 3100 Fundamentals of Systems Engineering	Async	Greg Miller		Jan 2012	SE 3100
OA 4702 Cost Estimation II	Synch , New Course	G. Mislick, NPS	Certificate		OS 3702
SI 3400 Fundamentals of Engineering Project Management	Async	C. Whitcomb		Mar 2012	None
OA 4703 Cost Estimation III	Synch, New Course	G. Mislick			OS 4702
OS4012 Risk and Uncertainty Analysis	Async, New Course	T. Anderson		Jul 2012	OS4702
OS4080 Cost Estimating and Analysis Cases	Synch, New Course	D. Nussbaum, G. Mislick			OA 4703
MN 3301 Acquisition of Defense Systems	Async,	J. Dillard		Sep 2012	MN 3510
OS 4081 Cost Estimating and Analysis Capstone I	Synch, New Course	TBD NPS/AFIT Faculty			OS 4703
MN4310 Logistics Engineering	Async	K. Kang		Jan 2013	OS3080
OS 4082 Cost Estimating and Analysis Capstone II	Synch, New Course	TBD NPS/AFIT Faculty			OS4703



Schedule for Cohorts

Development Deliver (and update)





Enrollment Information

- First cohort: April 2011
- Enrollment: 15 Oct 10 – 15 Jan 11
- 30 students per cohort
- 1 Cohort/year for first two years
- 2 Cohorts/year after that

Tri-Fold and website available

http://www.nps.edu/DL/Degree_Progs/MCEA.asp



Faculty and Staffing and Space

- Current NPS full-time and intermittent faculty will teach in the program
- **Program will eventually require hiring additional faculty. There is an opportunity to create tenure faculty positions as the program grows.**
- Will Require additional program and management support
- No space requirement now. May require additional space in steady state.



NPS-AFIT Academic Support

- AFIT provides the following services:
 - Teaching Cost Estimation II
 - Capstone Project leader

- NPS will provide
 - Admissions, scheduling, technology, classrooms and equipment, library, etc.
 - E marketing help, Sakai support, admissions, graduation check, award of degree



QUESTIONS?