# The Academic Program @ USNA

Andrew T. Phillips, Academic Dean & Provost

# U.S. Naval Academy Mission

To develop midshipmen morally, mentally, and physically and to imbue them with the highest ideals of duty, honor and loyalty in order to graduate leaders who are dedicated to a career of naval service and have potential for future development of mind and character to assume the highest responsibilities of command, citizenship, and government.

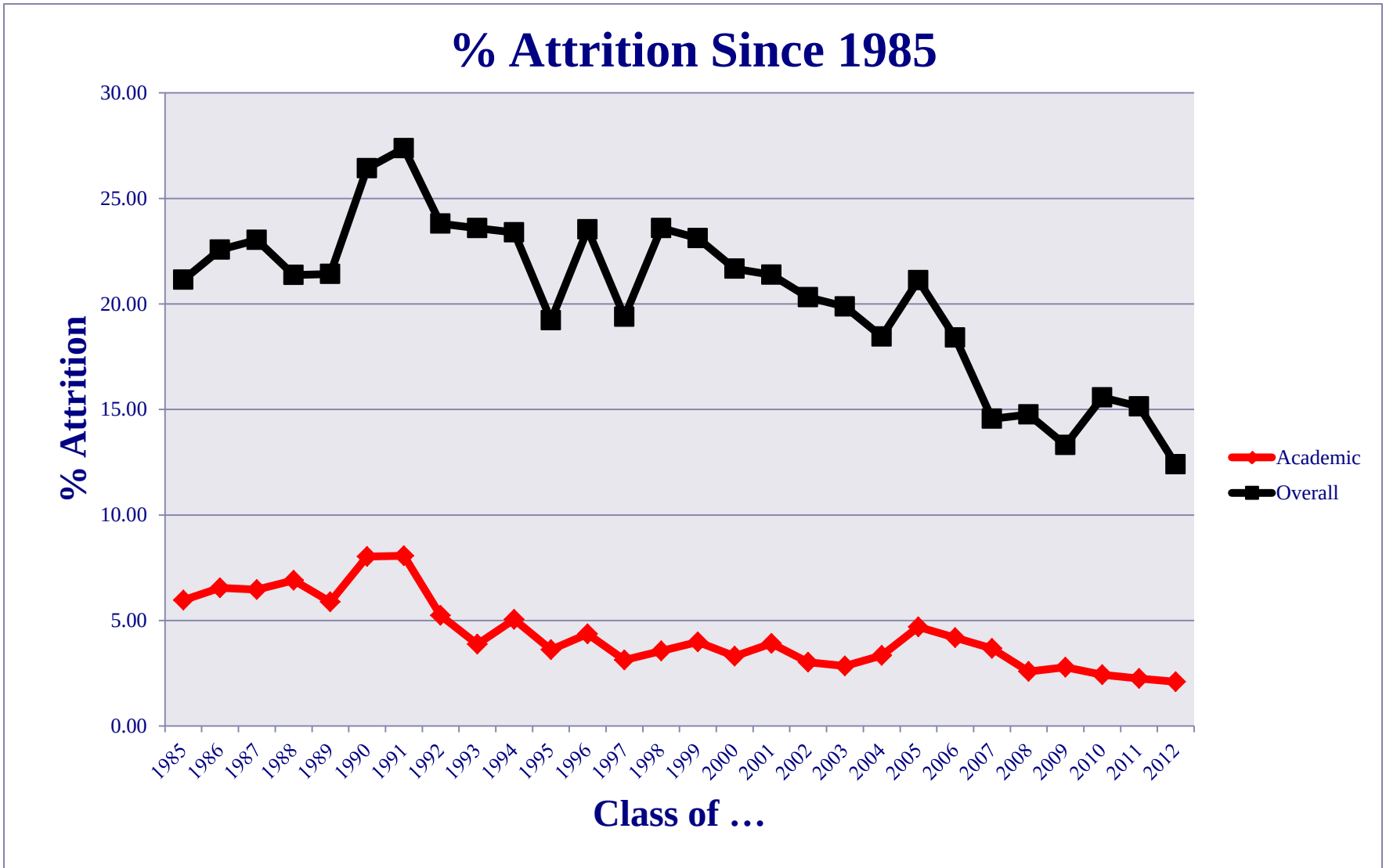
# U. S. Naval Academy Graduate Attributes

**Selfless • Inspirational • Proficient • Innovative**
**Articulate • Adaptable • Professional**

**Graduating Midshipmen Who Are Warriors**

**Ready To Meet The Demands Of A Country At War Or At Peace**

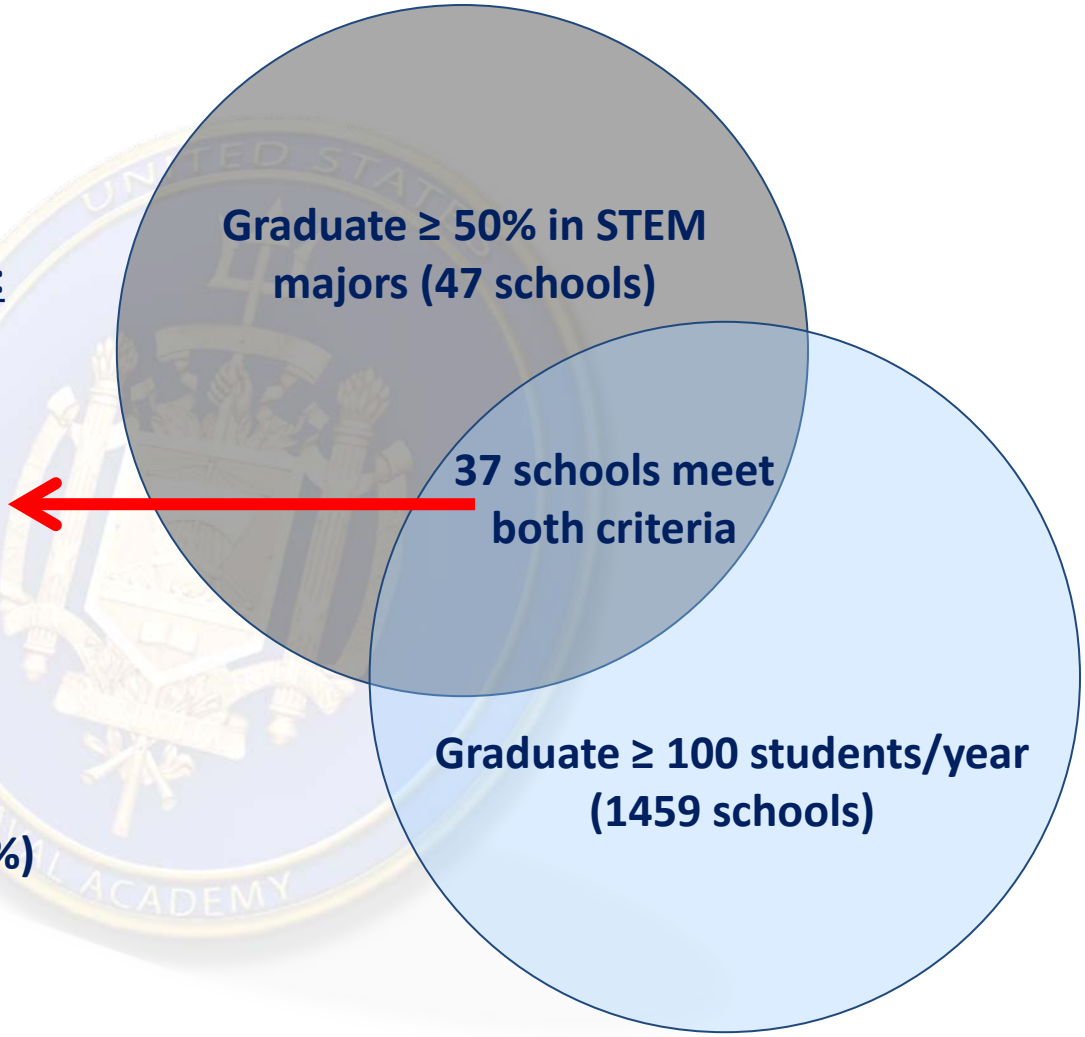
# The Developmental Model



# Graduation Rates

**Top 12 (by 4 yr graduation rate):**

1. **USNA (88.1%)**
2. MIT (84.5%)
3. Cal Tech (80.7%)
4. Harvey-Mudd (80.2%)
5. USCGA (75.8%)
6. Worcester Polytech (71.7%)
7. Carnegie Mellon (69.2%)
8. Cooper Union (66.8%)
9. Rose-Hulman (66.7%)
10. Case Western Reserve (65.0%)
11. Rensselaer Polytech (64.5%)
12. Clarkson (55.3%)




Data Source: The Education Trust (2010 data)

# U.S. News & World Report Ranking

#14 **National Liberal Arts Colleges**

#4 **Best Undergraduate Engineering Programs**
At schools where doctorate not offered

- #3 **Aerospace / Aeronautical / Astronautical**
  At schools where doctorate not offered
- #6 **Electrical / Electronic / Communications**
  At schools where doctorate not offered
- #3 **Mechanical**
  At schools where doctorate not offered

#1 **Top Public Schools**

#1 **High School Counselor Rankings**

# Faculty

## Since 1845 about 1/2 officer, 1/2 civilian


**Officer faculty:**

- Masters or doctoral degree
- Military role model
- Recent operational experience

**Civilian faculty:**

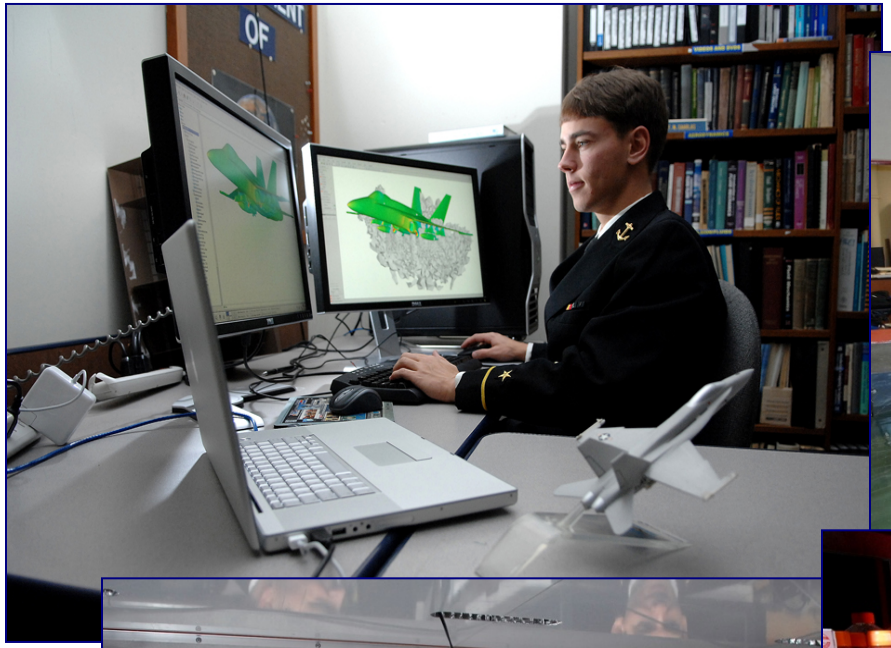
- Doctoral degree
- Academic expertise
- Program continuity
- Mentors

# National Survey of Student Engagement

***Success in college depends largely on …***
***five key clusters of activities***

- **Challenging intellectual and creative work**
- **Frequent student-faculty interaction**
- **Active and collaborative learning**
- **Complementary learning opportunities outside the classroom**
- **Supportive campus environment**

# Challenge!

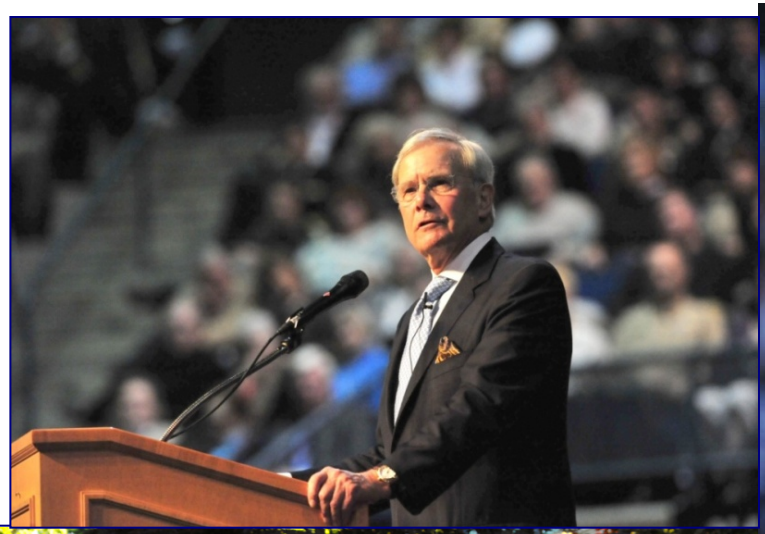


# Frequent Interaction with Faculty

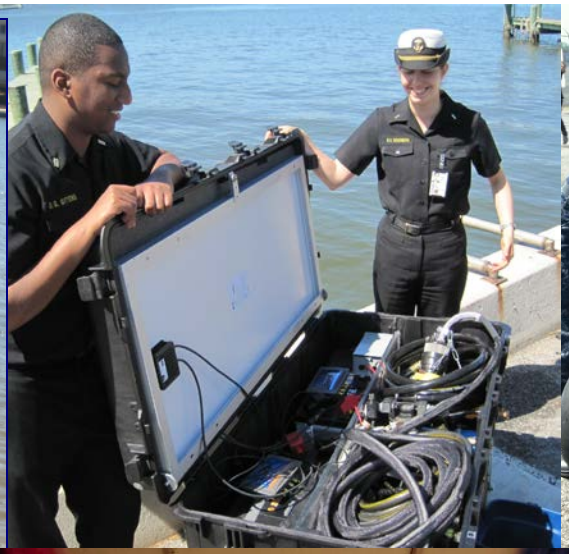
# Active/Collaborative Learning


# Learning Inside the Classroom

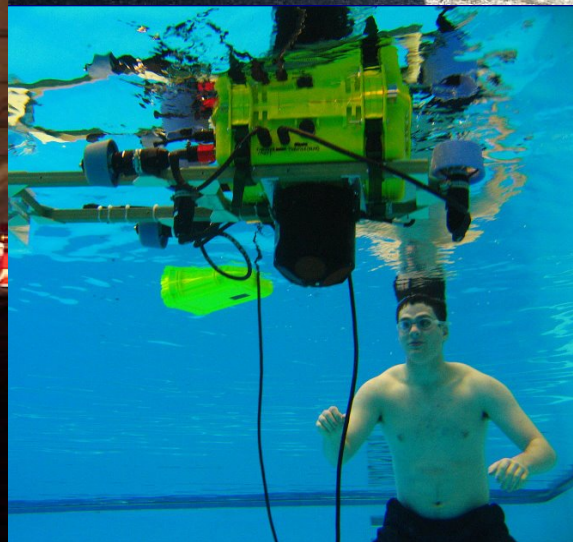

# Learning Outside the Classroom



# Learning Outside the Classroom



# Campus Support

# Graduates Earn a Commission and a Diploma

- Academic GPA ≥ 2.0 (“C”)
- Physical Education
- Summer Training
- Honor
- Conduct
- Aptitude for Commissioning

# The “Core” Curriculum

| TECHNICAL | NON-TECHNICAL | PROFESSIONAL |
|---|---|---|
| Mathematics (4) | English (2) | Leadership (2) |
| Chemistry (2) | History (3) | Ethics (1) |
| Physics (2) | Government (1) | Law (1) |
| Engineering (4) | Electives (2) | Seamanship/Navigation (3) |
| Cyber (2) | | Junior Officer Practicum (1) |
| | | Physical Ed (8) |
| | Foreign Language (4) | |

# 24 Academic Majors Offered

**Division of Engineering & Weapons:**

- Aerospace Engineering
- Computer Engineering
- Electrical Engineering
- General Engineering
- Mechanical Engineering
- Naval Architecture
- Ocean Engineering
- Systems Engineering

**Division of Mathematics & Science:**

- Chemistry
- Computer Science
- Cyber Operations
- General Science
- Information Technology
- Mathematics
- Oceanography
- Operations Research
- Physics
- Quantitative Economics

**Division of Humanities & Social Sciences:**

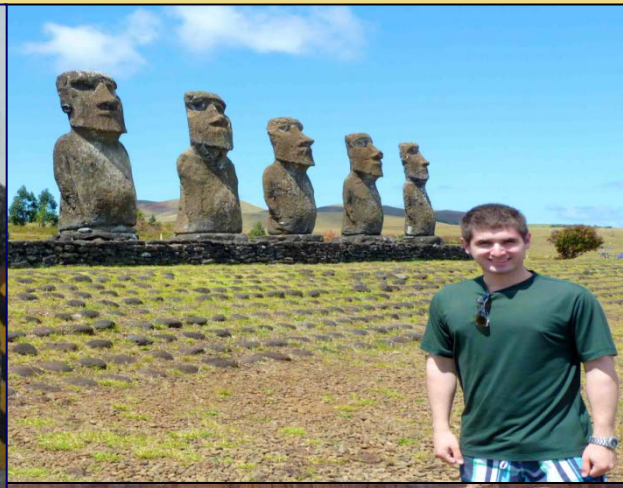
- Arabic
- Chinese
- Economics
- English
- History
- Political Science

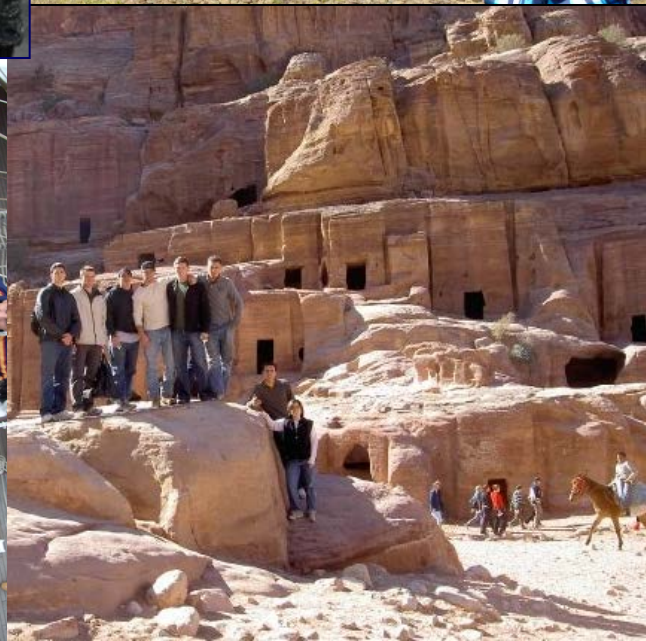
**Approximately 2/3 are expected to complete a "STEM" Major**

# New Cyber Operations Focus

# New Cyber Building

# International Engagement Opportunities



# Notable Graduates

1 President of the United States
2 Cabinet Members
16 Ambassadors
24 Members of Congress
5 State Governors
5 Secretaries of the Navy
1 Secretary of the Air Force
5 Chairmen of the Joint Chiefs of Staff
4 Vice Chairmen of the Joint Chiefs of Staff
28 Chiefs of Naval Operations
9 Commandants of the Marine Corps
2 Nobel Prize Awardees
73 Medal of Honor Recipients
52 Astronauts
48 Rhodes Scholars
26 Marshall Scholars

# Questions?


UNITED STATES
NAVAL ACADEMY
EX SCIENTIA TRIDENS
NAVAL ACADEMY