

Welcome!
to
The U. S. Naval Academy



William C. Miller
Academic Dean & Provost







U.S. Naval Academy Mission

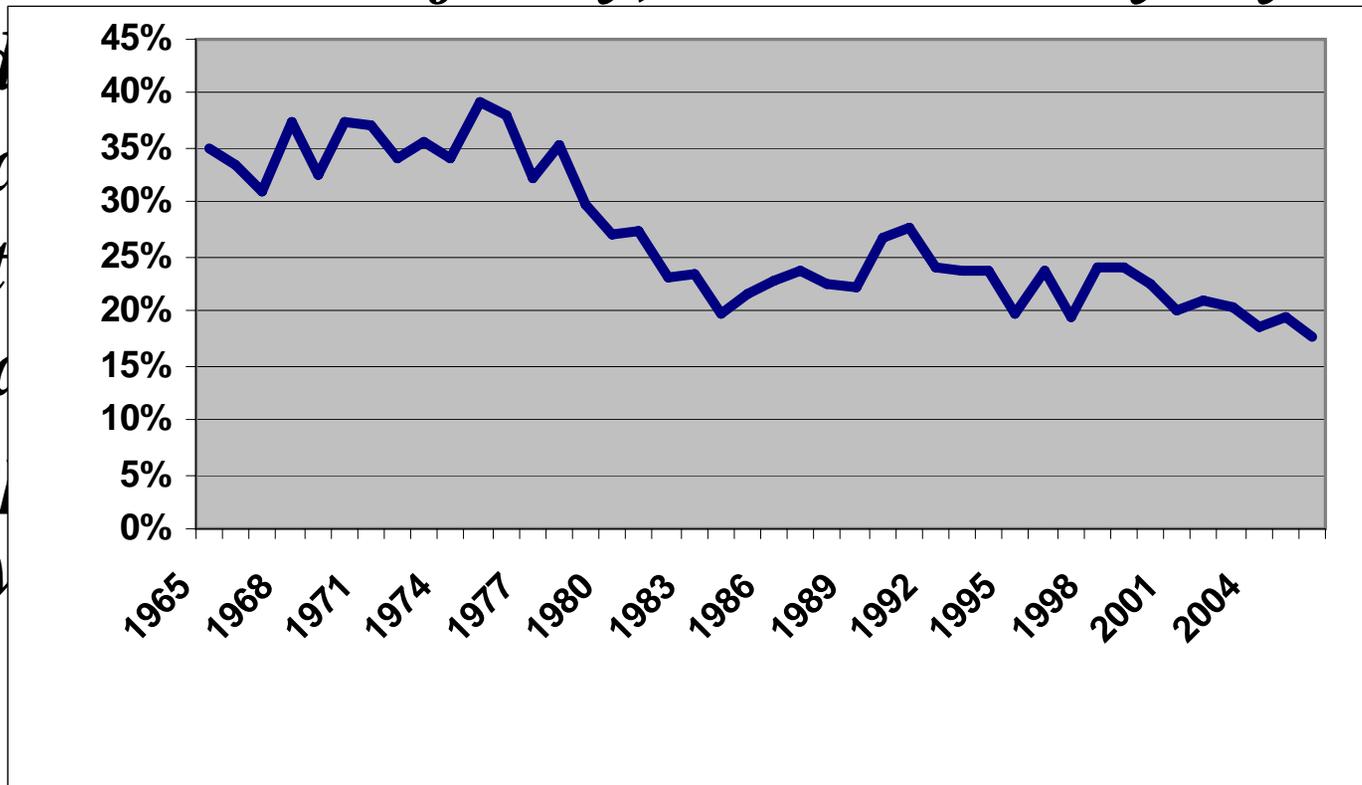
*To develop midshipmen morally, mentally,
and physically and to imbue them with the
highest ideals of duty, honor and loyalty in
order to provide graduates who are dedicated
to a career of naval service and have
potential for future development of mind
and character to assume the highest
responsibilities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



U.S. Naval Academy Mission

To develop midshipmen morally, mentally, and physically and to imbue them with the highest ideals of duty, honor and loyalty in

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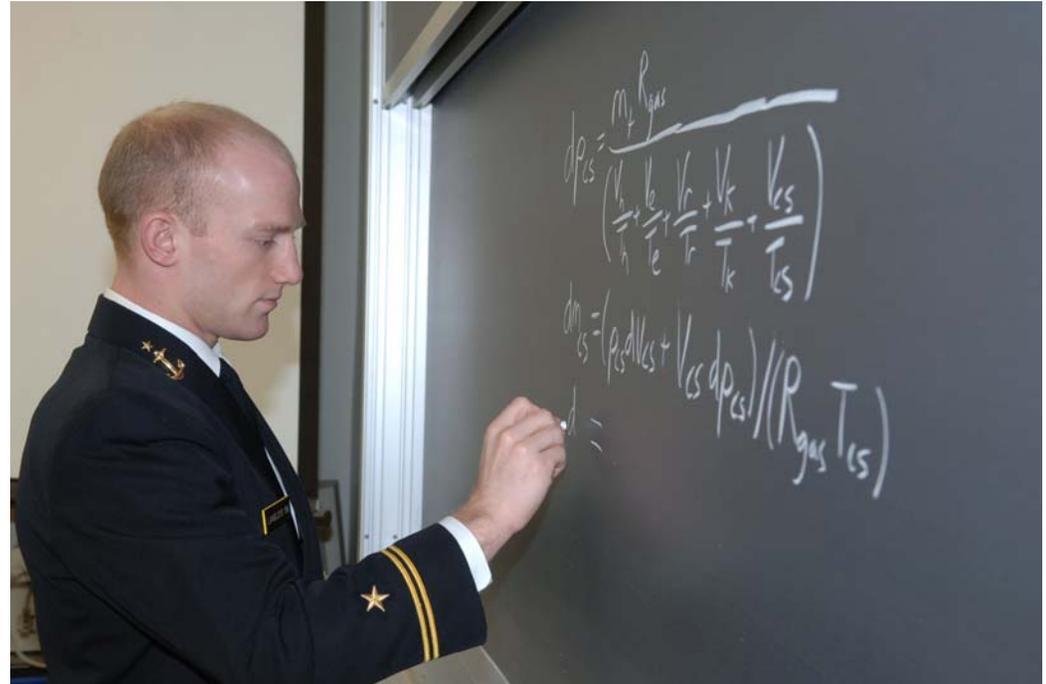
*U. S. Naval Academy Mission:
“To develop midshipmen morally, mentally, and physically....”*





Prepared To Serve

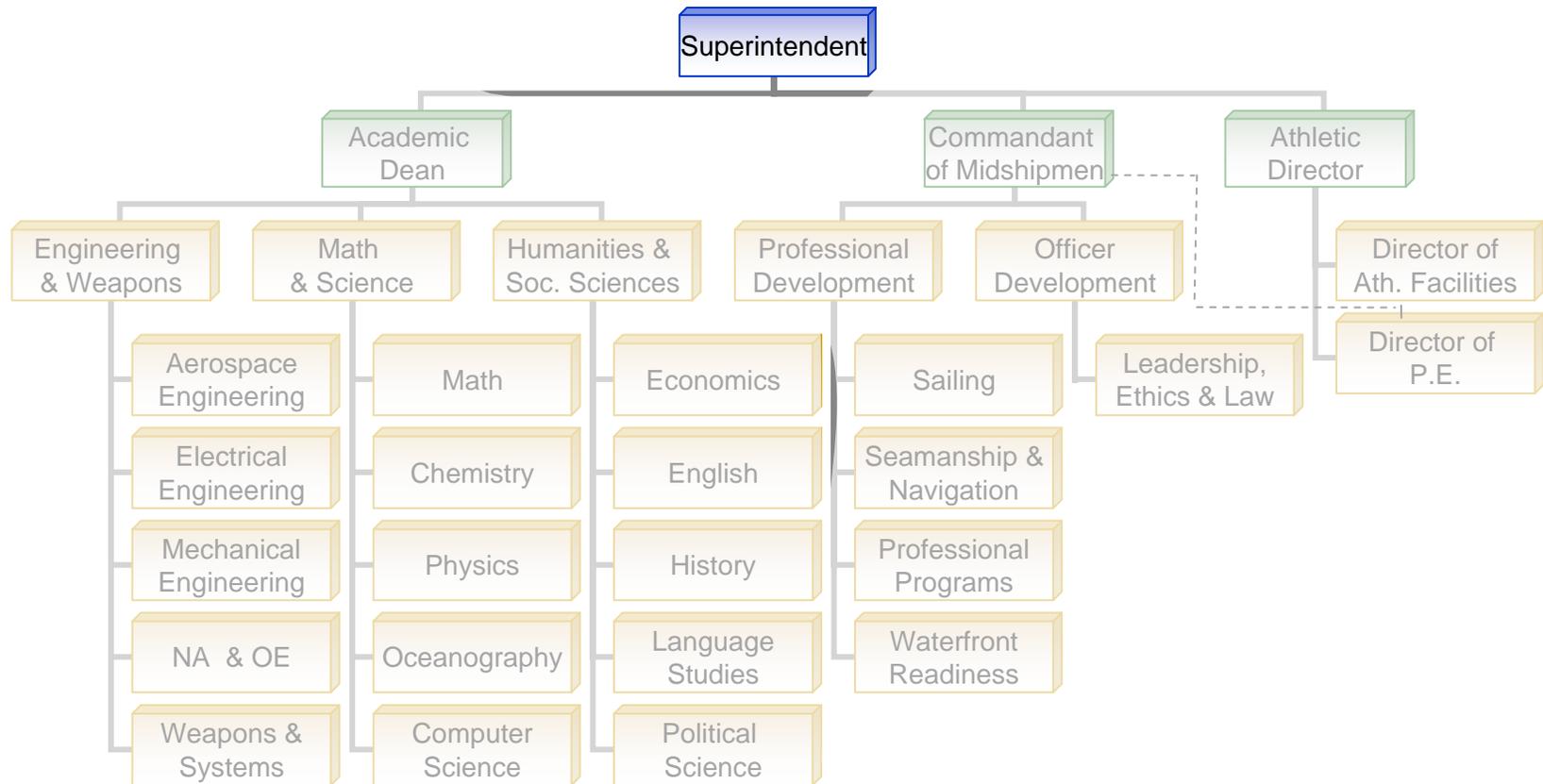
- **Solid Fundamentals**
- **Intellectual Curiosity**
- **Life-Long Learning**



**Intellectually Sharp...
...Combat Leaders**



U.S. Naval Academy Education and Training Organization





ENGINEERING & WEAPONS DIVISION

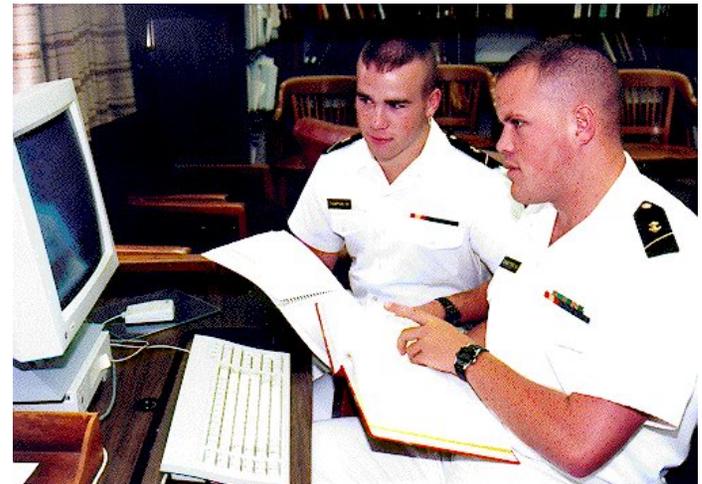
Departments	Academic Majors
Aerospace Engineering	Aerospace Engineering
Electrical Engineering	Electrical Engineering
Mechanical Engineering	General Engineering
	Mechanical Engineering
Naval Architecture and Ocean Engineering	Naval Architecture
	Ocean Engineering
Weapons and Systems Engineering	Systems Engineering





MATHEMATICS & SCIENCE DIVISION

Departments	Academic Majors
Chemistry	Chemistry
Computer Science	Computer Science
	Information Technology
Mathematics	General Science
	Mathematics
	Quantitative Economics
Oceanography	Oceanography
Physics	Physics





HUMANITIES & SOCIAL SCIENCES DIVISION

Department	Academic Majors
Economics	Economics
English	English
History	History
Political Science	Political Science
Language Studies	Arabic
	Chinese
	<i>Minors also offered in: Arabic, Chinese, French, German, Japanese, Russian, Spanish</i>



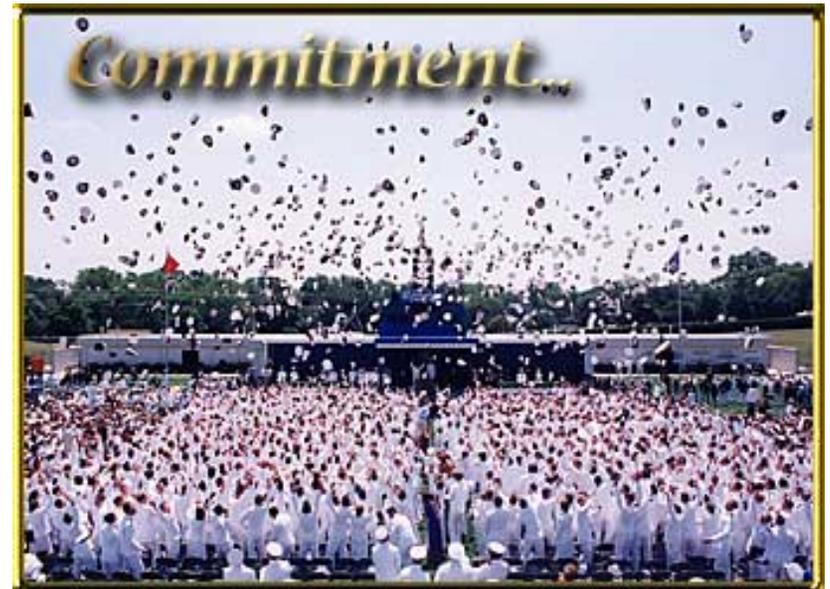
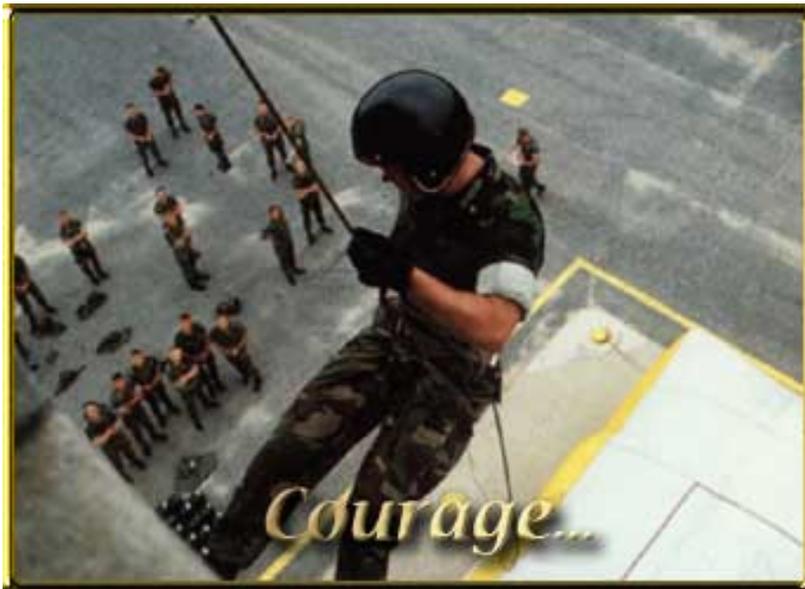


PROFESSIONAL DEVELOPMENT DIVISION





OFFICER DEVELOPMENT DIVISION





Faculty

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



Officer faculty:

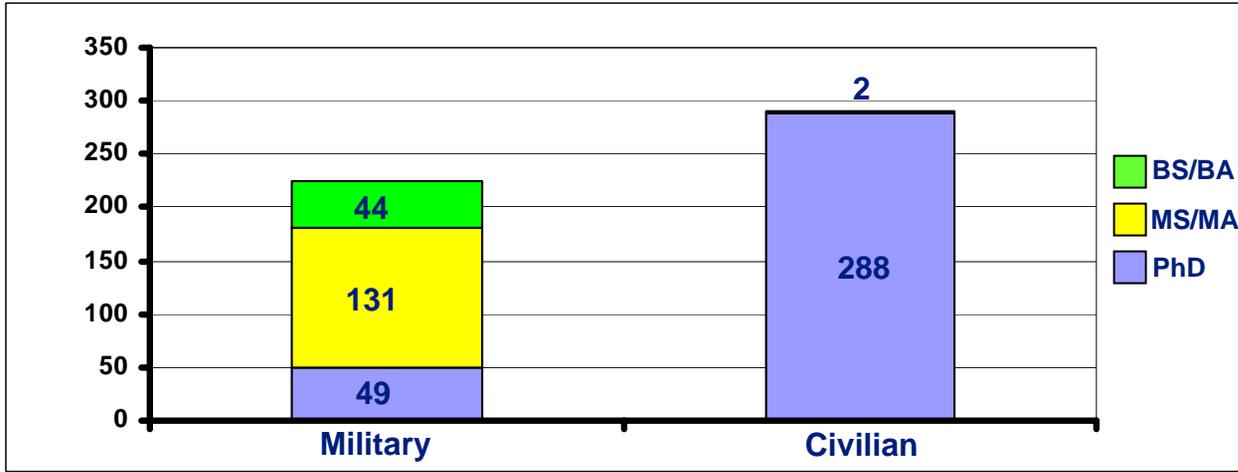
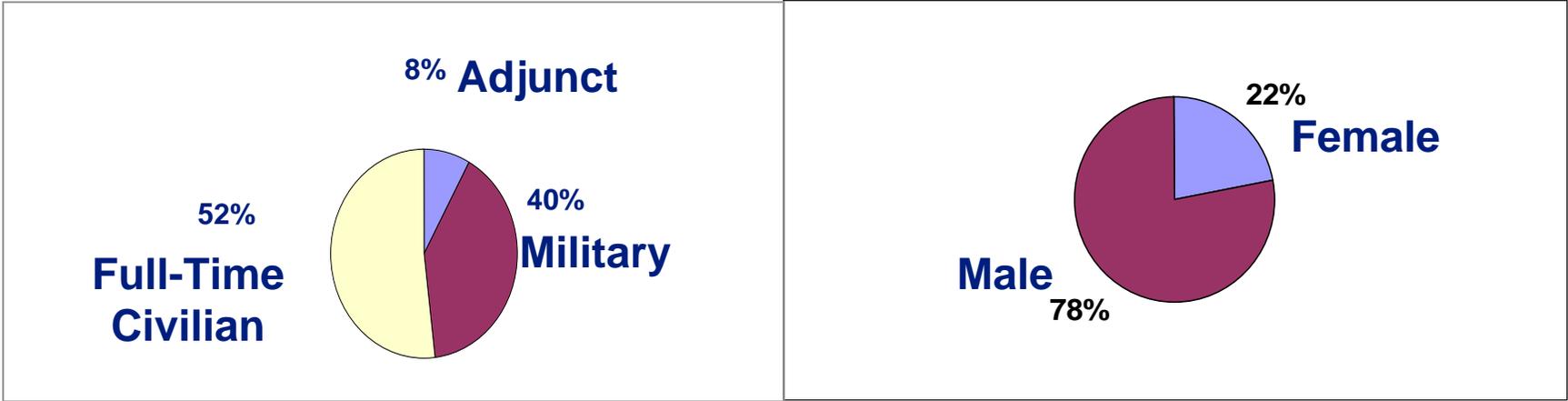
- Military role model
- Recent operational experience
- Masters or doctoral degree

Civilian faculty:

- Academic expertise
- Program continuity
- Doctoral degree



Faculty Demographics





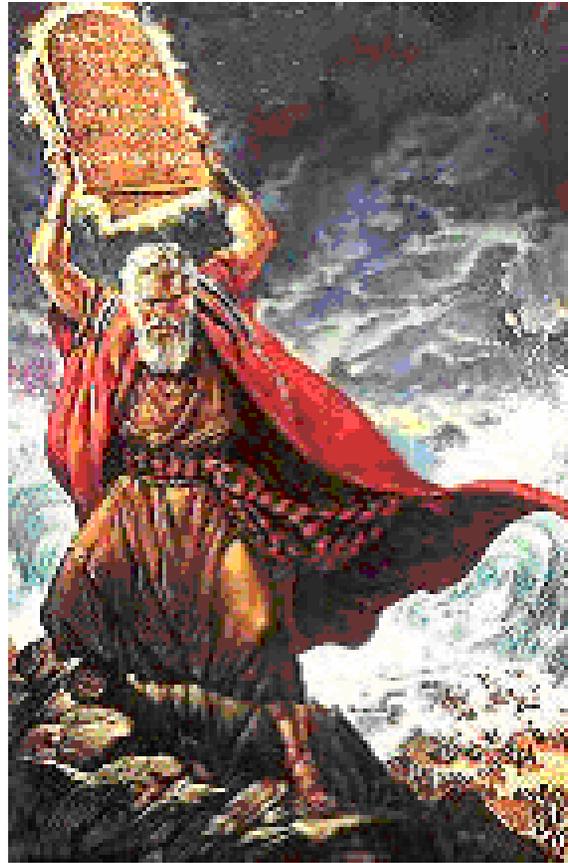
Academic Assistance

- *Extra Instruction (EI)*
- *Departmental Assistance*
 - Math Lab
 - Chemistry Resource Room
 - Writing Center
- *Midshipman Group Study Program (MGSP)*
 - Study groups led by upperclassmen
- *Academic Center*
 - Study skills mini-course
 - Time management mini-course
 - Tutoring





GRADUATION REQUIREMENTS





Graduates Earn A Commission and a Diploma

- *Academic*
 - Required and Major courses
 - Grade average at least 2.0 (“C”)
- *Physical Education*
- *Summer Training*
- *Honor*
- *Conduct*
- *Aptitude for Commissioning*
- *Accept Commission if Offered*



Required Courses

4/C Fall	4/C Spring	3/C Fall	3/C Spring	2/C Fall	2/C Spring	1/C Fall	1/C Spring
Leadership I			Ethics		Leadership II	Law for the Junior Officer	
Seamanship	Navigation I	Navigation II		Naval Warfare			Junior Officer Practicum
Calculus I	Calculus II	Calculus III	Mathematics IV	Electrical Engineering I	Information Technology		
Chemistry I	Chemistry II	Physics I	Physics II		Weapons Engineering	Naval Engineering I	Naval Engineering II
English I	English II	Civilization I	Civilization II		Humanities & Social Sciences Elective	Humanities & Social Sciences Elective	
Naval History	US Government & Constitution						Free Elective



Academic Majors

~~19~~ 21 Options for Focused Study

Engineering:

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

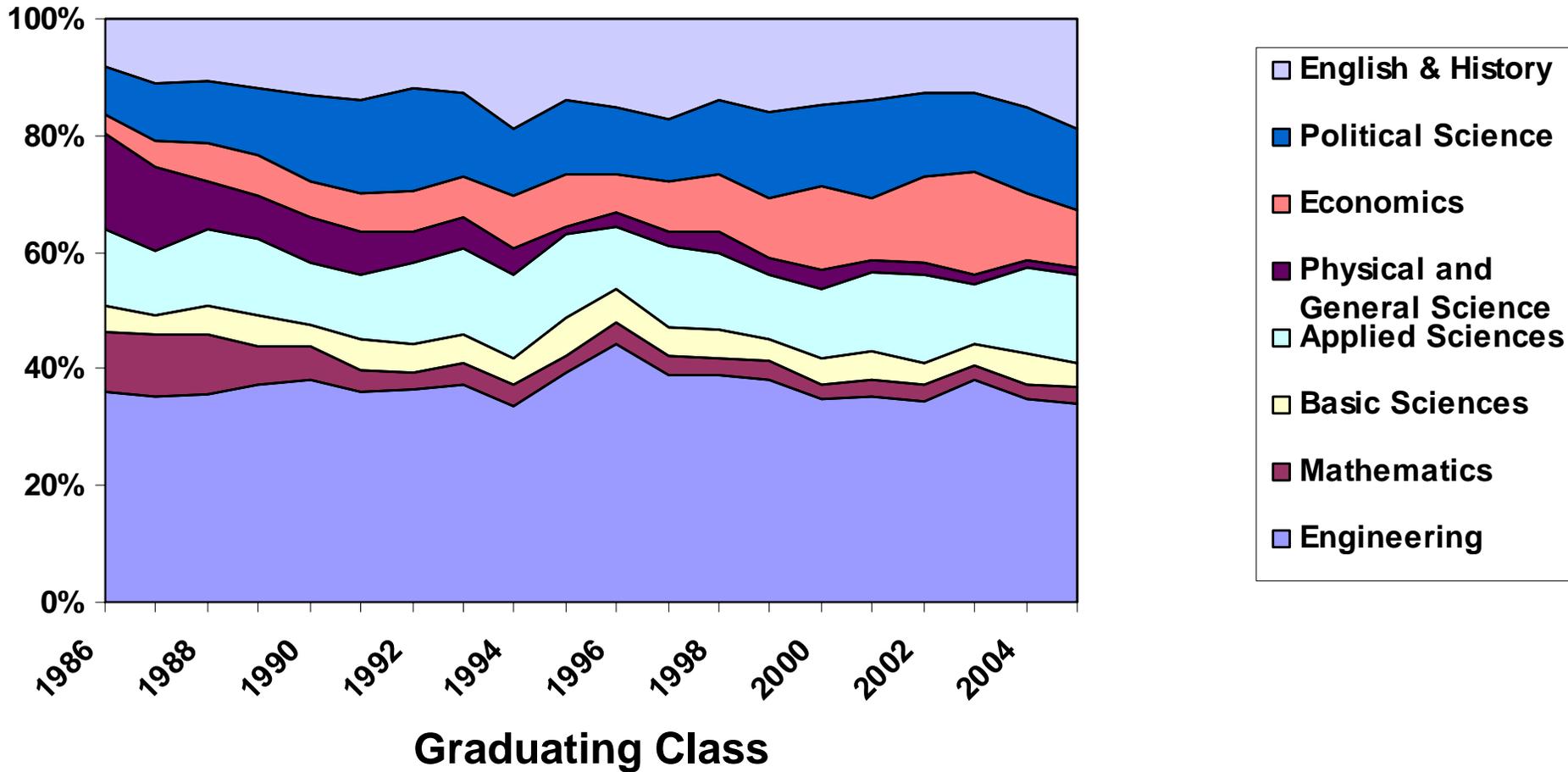
Mathematics & Science:

Chemistry
Computer Science
General Science
Information Technology
Mathematics
Oceanography
Physics
Quantitative Economics

Humanities & Social Sciences:

Arabic
Chinese
Economics
English
History
Political Science

Graduates by Academic Major Category





Academic Program Review

Preliminary Results

- **Reduced total number of academic and professional hours required for graduation**
- **Expanded midshipman choice of courses**
- **Increased international content in curriculum**
- **Added academic majors in Arabic and Chinese**





Academic Program Review

Continuing Activity

- **Course development for recent curricular decisions**
- **Increased focus on critical thinking**
 - **Broaden focus beyond content mastery to include development of higher-level problem solving skills**
 - **Emphasize multi-faceted problems and dealing with ambiguity**
- **Wider employment of alternative learning models**
 - **Team projects**
 - **Open-ended, real-world problems**
 - **Interdisciplinary approaches**
- **Helping students learn how to learn**
- **Developing better connectivity with the Fleet**
 - **Increasing fleet relevance of subject matter**
 - **Developing fleet relationships that support continuing assessment of student learning and highlighting naval applications of acquired knowledge**



Student Engagement

National Study of Student Engagement

Five key clusters of activities

- **Challenging intellectual and creative work; setting high expectations; importance of student effort**
- **Frequent student-faculty interaction as mentors and to model how experts think about and solve problems**
- **Active and collaborative learning; students learn more when intensely involved in their own education and engaged in answering messy, unscripted questions**
- **Complementary learning opportunities outside the classroom augment academic programs**
- **Supportive campus environment providing assistance when needed**



Enhance Language and Cultural Education

USNA moving aggressively to enhance Mid'n foreign language abilities and global cultural awareness

- **Four year students**
 - 51 midn: 25 countries
- **Semester exchange**
 - 10 midn: 5 countries
- **Language immersion**
 - 110 midn: 13 countries
- **Professional training:**
 - 41 midn: 14 countries
- **Center for Middle East and Islamic Studies**





Four Year Program

Academic Year 2006-2007 (51 total)

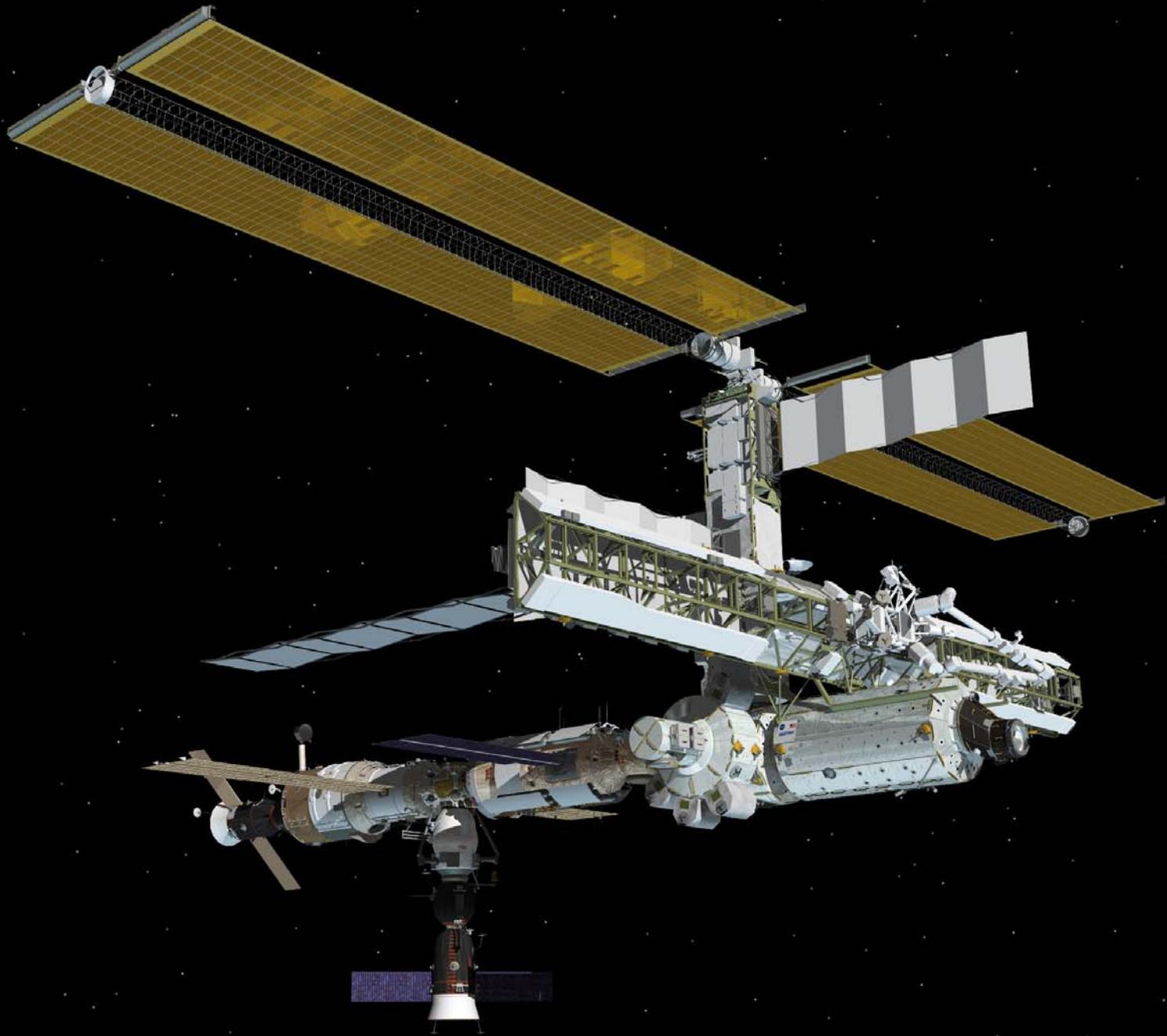
	Algeria-1		Ireland-1		Micronesia-1		St. Lucia-2
	Belize-2		Jamaica-2		Pakistan-4		Taiwan-3
	Cameroon-1		Kyrgyzstan-1		Peru-2		Thailand-3
	Ecuador-2		Lithuania-3		Philippines-3		Tunisia-3
	El Salvador-1		Malaysia-1		Romania-3		
	Guyana-2		Maldives-1		Singapore-3		
	Honduras-2		Mauritius-1		S. Korea-2		



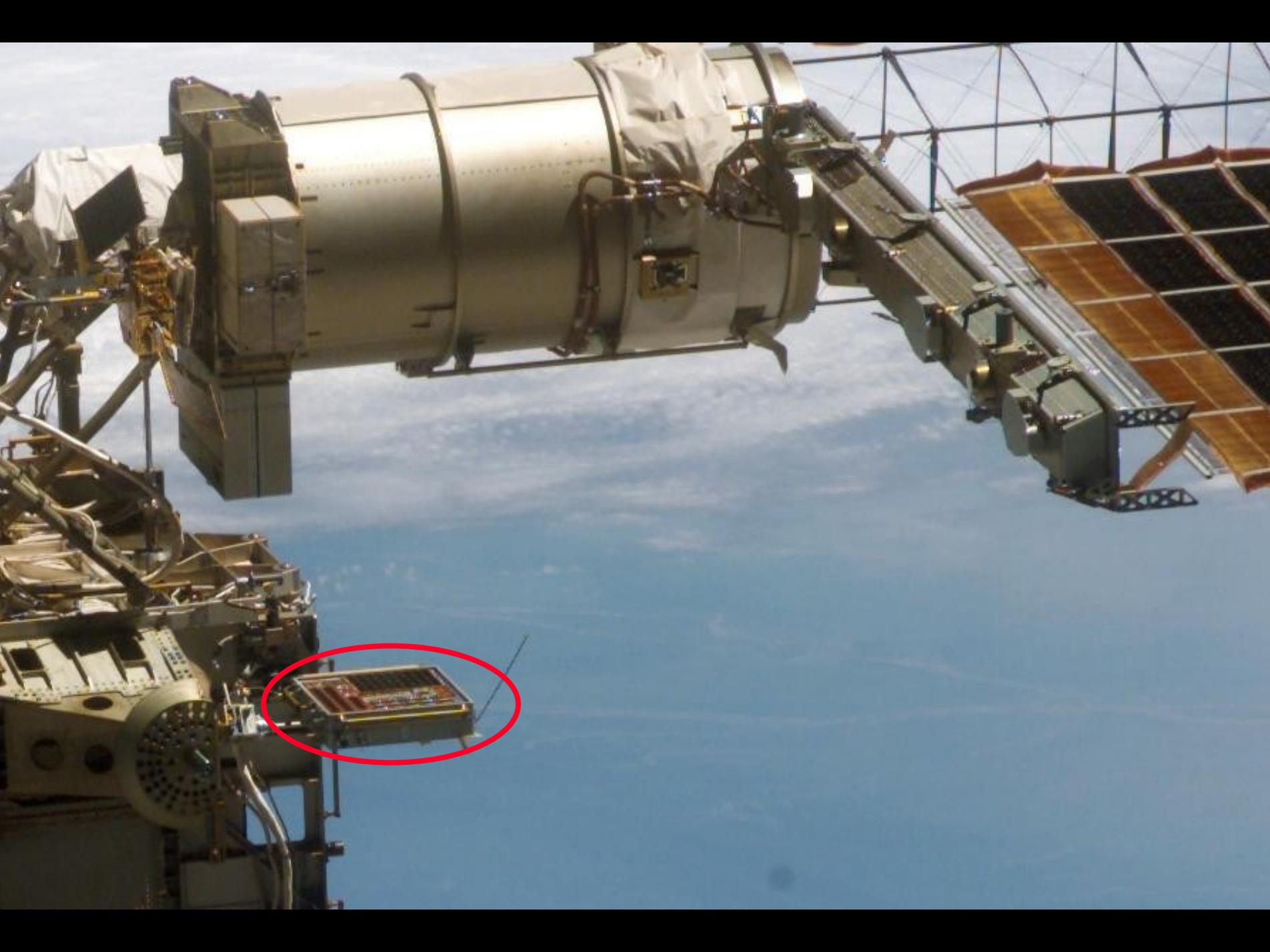
Emphasis on Hands-On Learning













Women & People of Color In Science & Engineering



- **Recent TRIDENT article highlighted Navy and National need**
- **Past trends reflect cultural hurdles, not a lack of talent**
- **Need mentors to guide & encourage**
... one at a time, not an omnibus program





Ongoing Library Modernization



Near Term: Refurbish selected spaces in Nimitz Library to best meet USNA near-term needs.

Long Term: Commission a study group to define USNA library requirements in a networked world.



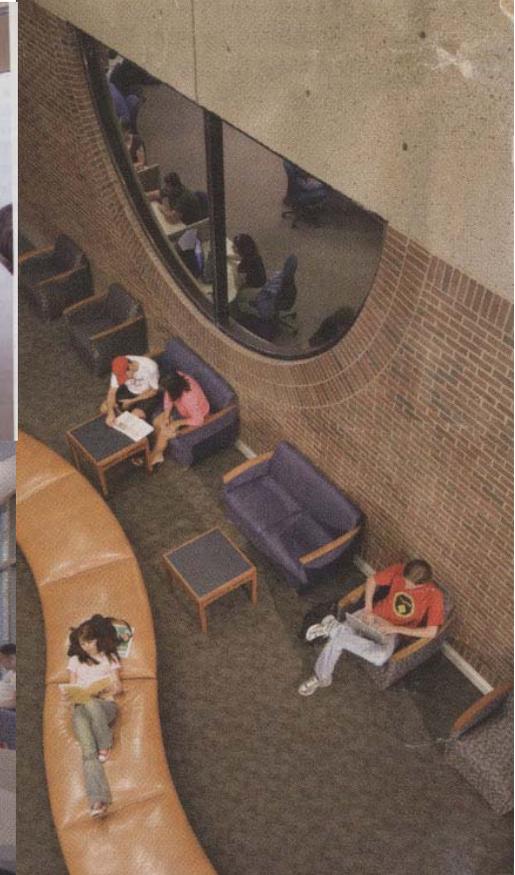
Longer Term: Commission Study Group to Investigate Requirements and Options

- **Key Questions:**
- **What functions will a library perform in 2020 or 2041?**
- **How can we anticipate changes?**
- **What are industry best practices?**
- **What are others doing?**



Louisville University (top)

Lafayette College (bottom)





Duke University (top)

Furman University (bottom)





United States Military Academy

OUR NEW HOME
OPENS 2008





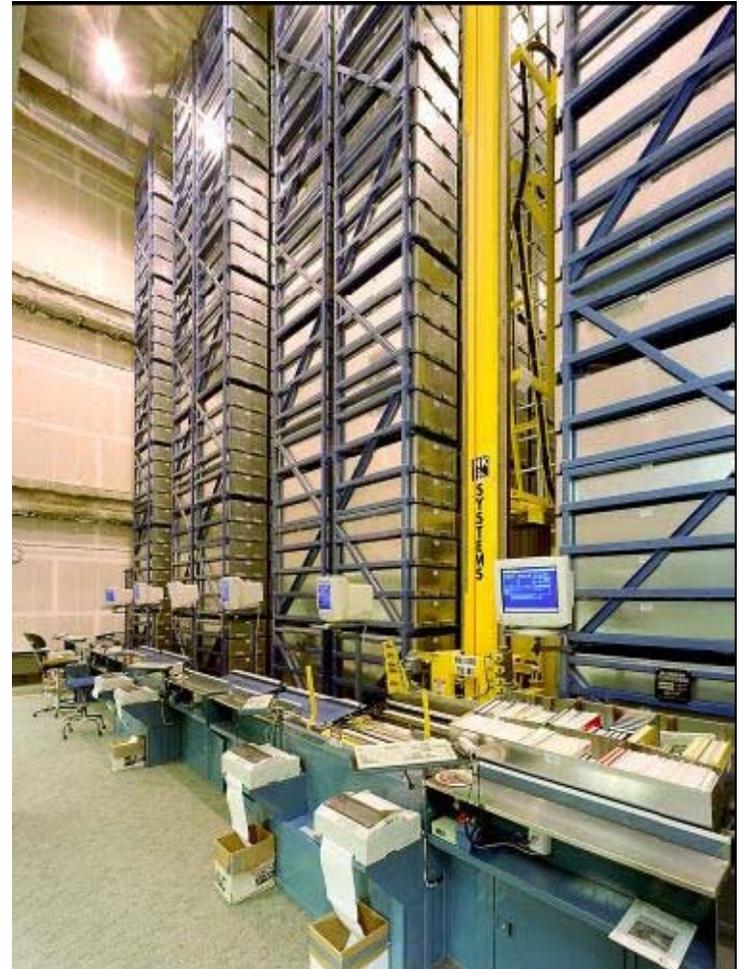
Alternative Shelving Options



Compact shelving



High-density automated shelving









Questions?