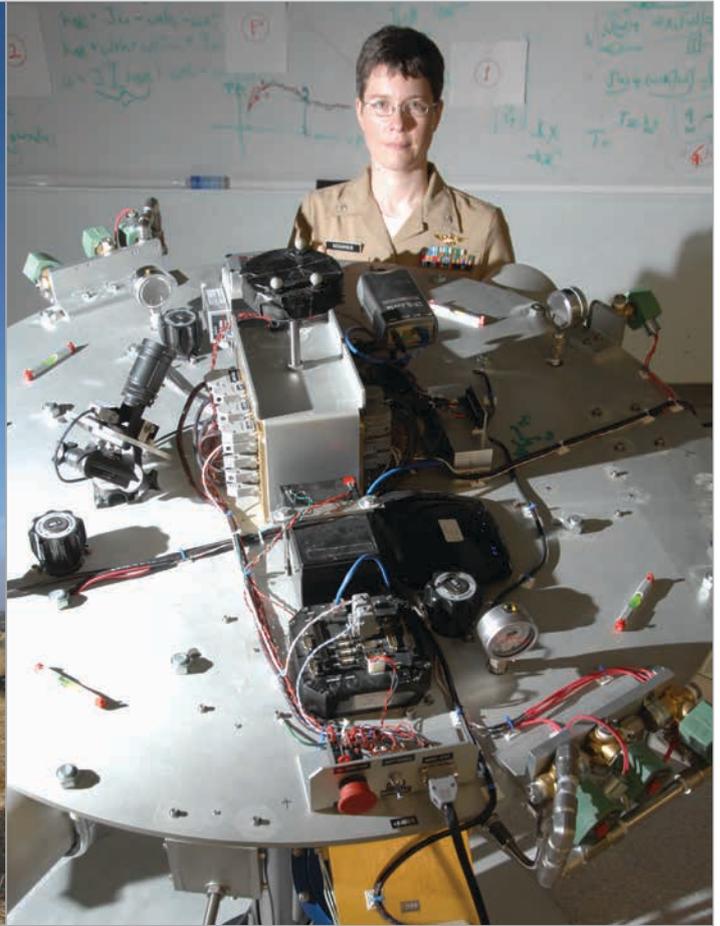


# RESOURCES



## INFORMATION TECHNOLOGY & COMMUNICATIONS SERVICES

### QUICK FACTS NPS SYSTEMS

Networks	Provider	Site
EDU	CENIC	nps.edu
HPR	CENIC	hpr.nps.edu
MIL	DREN	nps.navy.mil
Public (for guests)	CENIC	Public.nps.edu
DoDNet	NPS	Monterey DoD Interconnect:DMDC, PERSEREC, DLIFLC, NRL, FNMOC, NPS
"PACBell" Commercial ISP	AT&T	Research Network
Classified Networks	Various	Various

### QUICK FACTS USER ACCOUNTS

Type	FY12	FY13	FY14
Resident Students	2069	2261	2816
DL Students	1382	3111	2265
Faculty	967	1150	1056
Staff	1174	1672	1474
Contractors	356	483	475
<b>Total Accounts</b>	<b>7527</b>	<b>8677</b>	<b>8086</b>

### QUICK FACTS EDUCATION TECHNOLOGIES

Description	FY12	FY13	FY14
Learning Resource Center application	288	289	289
Video Bridge Ports	60	80	80
ISDN Channels available to Video Bridge	256	256	256
ISDN Gateway Channels	0	253	253
VTC Equipped Spaces	42	42	42
VTC Meeting Rooms	27	27	27
VTE Specialized Classrooms & Studios	15	15	15
Multimedia presentation systems	133	133	133
Class hours recorded & streamed via the Internet	5,259	5,612	5,862
Participant hours attended via web-conferencing system (beginning FY14)	11,624	12,369	100,675
Learning Management systems usage (logins)	4,484	6,447	7,821

Source: Information Technology and Communications Services

## HIGH PERFORMANCE COMPUTING (HPC)

Description	FY13	FY14
Linux computers on campus	40	375
Linux users on campus	250	500
HPC supercomputer processors	1,340	3,154
HPS supercomputer users	150	210
HPC disk space	475 TB	475 TB

## UNIVERSITY EDUCATION PARTNERSHIPS

### CORPORATION FOR EDUCATION NETWORK INITIATIVES IN CALIFORNIA (CENIC)

State research and education network (CalREN) links University of California campuses and system, California State University campuses and system, University of Southern California, Cal Tech, Stanford University and the Naval Postgraduate School, as well as providing connectivity to other national high-speed networks such as LambdaRail and Internet2.

### INTERNET2

National high-speed, high-capacity network; U.S. university-led consortium with partners in industry and government accelerating development of tomorrow's internet.

## DEFENSE PARTNERSHIPS

Educational and research partners of NPS that have established links to distributed technology tools: Synchronous Collaboration System, Learning Management System, Video capture, Video editing system and Podcasting. These partnerships include: Defense Language Institute-Foreign Language Center (DLIFLC), DOD Foreign Area Officer Program, Commander Navy Installation Command (CNIC), DOD Educational Information Security Working Group, and 23 DOD Educational Institutions

## DEFENSE RESEARCH ENGINEERING NETWORK (DREN)

DOD's recognized research and engineering network. Robust, high-capacity, low-latency nation-wide network that provides connectivity between and among the HPCMP's geographically dispersed High performance Computing (HPC) user sites, HPC Centers, and other networks.

## MONTEREY PENINSULA DEPARTMENT OF DEFENSE NET

Regional DOD consortium with physical infrastructure linking Fleet Numerical Meteorology and Oceanography Center (FNMOC), Defense Manpower Data Center (DMDC), Naval Postgraduate School (NPS) and the Defense Personnel Security Research Center.

## DOD EDUCATIONAL INFORMATION SECURITY WORKING GROUP

Twenty-three DOD educational institutions that focus on network and information security – collaborate electronically throughout the year to solve security related problems

## UNIVERSITY AND DEFENSE PARTNERSHIP

### NAVY HIGHER EDUCATION IT CONSORTIUM

Naval Postgraduate School, Naval War College, and Naval Academy CIO's working to develop higher education-based collaborations to maximize effectiveness of technology use at each of the three institutions.

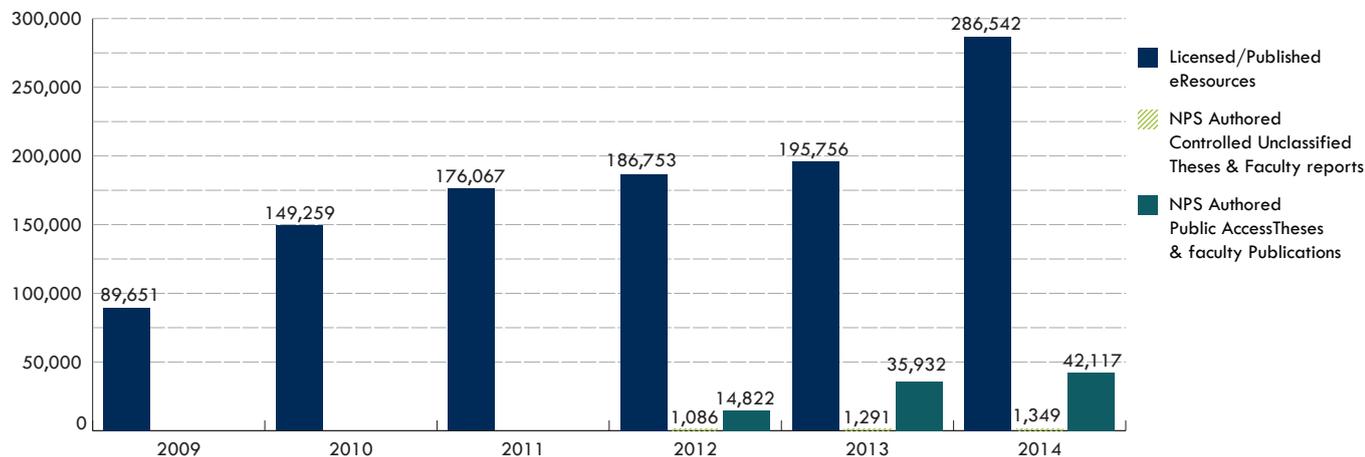
Source: Information Technology and Communications Services

# DUDLEY KNOX LIBRARY

## QUICK FACTS

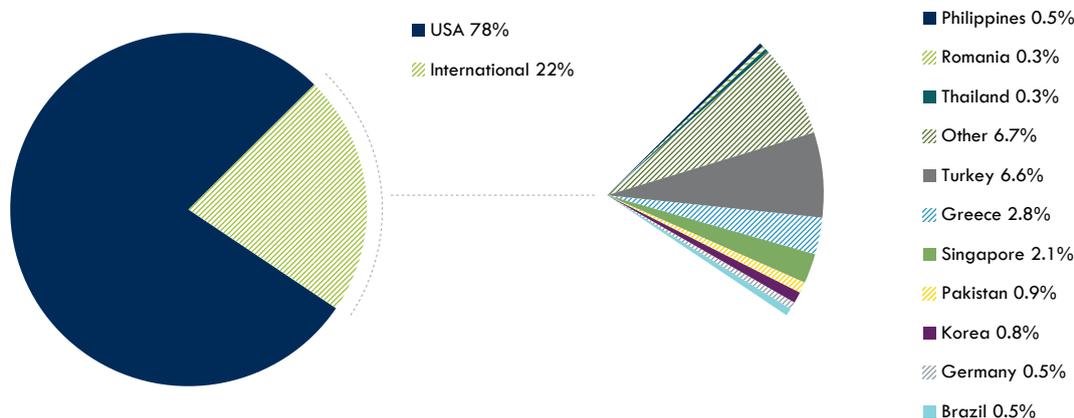
NUMBER	DESCRIPTION
26	Library staff FTE (12 MLIS or Masters' degrees)
78	Average weekly hours (Sunday - Saturday); open additional hours each finals week
330,008	eResources available 24/7 (books, journals, reports & more)
1,349	NPS-authors' controlled unclassified (CUI) eResources: theses, dissertations, and technical reports
42,117	NPS-authors' public access eResources: theses, dissertations, journal articles, book chapters, and more
309,745	Onsite Library visits (up 19% over FY13)
1,786	Average daily library visits (onsite and virtual)
> 8,000	Hours students used collaborative study spaces
2,348	Number of students receiving library instruction
132	Number of library instructional sessions (189 classroom hours) (face-to-face and virtual)

## NUMBER OF ELECTRONIC RESOURCES



2010 increase due to new EBRARY titles FY12 added Controlled Access Catalog & Calhoun

## NPS ALUMNI REGISTERED FOR FY2014 LIBRARY ACCESS TOP COUNTRIES (N=2,754)



Source: Dudley Knox Library

# ACADEMIC FACILITIES

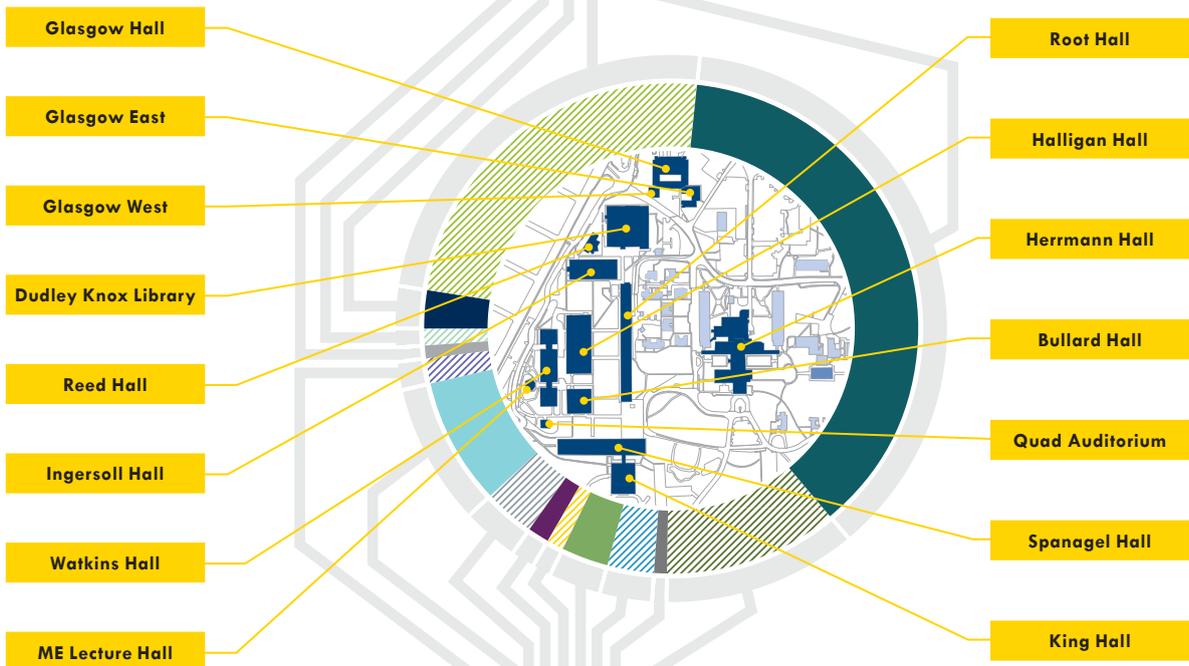
**AUDITORIUM (AUD.)**  
**6** Large Auditorium facilities designed for Conferences and similar large group of audiences.

**MAC LAB (LAB)**  
**2** Lab equipped with networked or stand-alone computers for Academic or Research use by students and faculty which contains Apple Mac Pros with a dual boot Mac OS and Windows configuration.

**MULTI O/S (LAB)**  
**2** Lab equipped with networked or stand-alone computers for Academic or Research use by students and faculty where multiple combinations of operating systems and hardware are possible.

**CONFERENCE ROOMS (CONF.)**  
**56** Conference rooms designed for classroom and/or conference use for a small working group or audiences.

**BASELINE CLASSROOMS (CR)**  
**86** Traditional baseline classroom with multi-media projection system and instructor computer. This is the minimum baseline technology for all traditional classrooms.



**UNIX/LINUX (LAB)**  
**4** Lab equipped with networked or stand-alone computers for Academic or Research use by students and faculty using UNIX or LINUX operating systems.

**LRC WINDOWS (LAB)**  
**19** Public Learning Resource Centers. Equipped with networked computers for student use, instructor computer, networked printer. Commonly used as a computer classroom on an irregular basis.

**VTC EQUIPPED CLASSROOM (VTC)**  
**8** Traditional or computer equipped classrooms with videoconferencing capability. Not equipped for VTE.  
*NOTE: This is an enhancement to the existing facilities and does not represent additional rooms.*

**VIDEO INSTRUCTION SUITES (VTE)**  
**3** Video studios equipped for VTE or Elluminate use.

**VTE STUDIOS (VTE)**  
**3** Video tele-education teaching studio. Enhanced version of Type 3a VTE Classroom, but without seats for local students. Used for VTE programs with only remote students. Includes large rear- screen projection system.

**COMPUTER-EQUIPPED LABS (CR)**  
**26** Baseline classroom or lab with networked PCs and AC at each student seat.

**TEACHING ENHANCED ACTIVE LEARNING (CR)**  
**2** Classroom with shared power and network connectivity at student stations, strategically placed plasma displays and ability for students to project from study stations to displays.

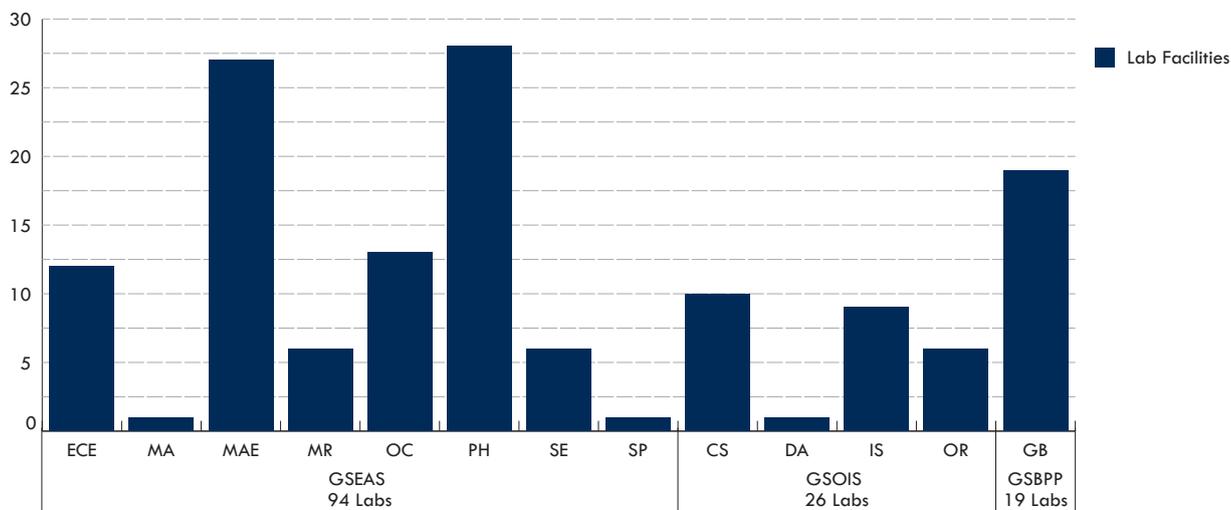
**SECURE CLASSROOMS (CR)**  
**7** Traditional classrooms with baseline AV capabilities in SCIF, STBL and other Secure Labs/ Classrooms

**VTE CLASSROOMS (VTE)**  
**7** Video tele-education classroom. Traditional style classroom augmented with videoconferencing technology, specialized video display system, instructor PC, document camera, VCR, microphones, loudspeakers, and audiovisual routing matrix.

Source: Facilities Management (2014)

## NPS LAB FACILITIES

NPS has 139 labs across 3 academic schools used to support our education and research programs.



### MAJOR REPRESENTATIVE LAB FACILITIES BY DEPARTMENT AND SCHOOL

GSEAS			
Dept	LAB NAME	SPONSOR	LAB DESCRIPTION
ECE	RADAR & EL. WARFARE SYSTEMS LAB	OPNAV N1	The Radar Lab complex contains 15 Radar Systems and 10 various Electronic Warfare Systems. The facilities provide operating systems in support of instructional courses in Radar and Electronic Warfare principles.
	OPTICAL ELECTRONICS LAB	OPNAV N1	Optical technology is an effective war-fighting and information-providing tool. This lab provides experimental facilities in fiber optics, lasers, and Electro-optics.
MA	LEARNING RESOURCE CENTER MATH	NPS	Lab provides instruction ranging from programming to computer architecture, database systems, computer graphics, artificial intelligence, computer networks and advanced programming.
MAE	MARINE PROPULSION LABORATORY	OPNAV N86	This lab includes the marine propulsion lab, the rocket propulsion lab, and the turbo-propulsion lab. The marine propulsion lab includes gas turbine and diesel engines. This forms the core of the instructional program in marine power and propulsion.
	THERMAL ENGINEERING LABORATORY	OPNAV N86	Used mainly for instruction in heat transfer by convection phenomena of single and multi-phase flows and includes facilities for measurement of temperature change and fluid motion in a range of systems.
MR	MARINE ATMOSPH. BOUNDARY LAYER & MEAS. LAB	OPNAV N096	Access to a variety of observation sites enables the lab to provide near Real-time data from the coastal region. Utilizes in-situ and remote sensing instrumentation systems for both teaching and research.
	ATMOSPHERIC ANALYSIS AND FORECASTING FOR WMD/HLS	OPNAV N096	Lab provides the modeling, measurement and software tools to address atmospheric aspects of WMD and HLS issues for DOD.
OC	NAVAL OCEAN ANALYSIS AND PREDICTION (NOAP) LAB	OPNAV N096 / RR*	Supports environmental research in Joint Warfare and SOLIC, environmental effects on mine warfare, ocean analysis and prediction, and littoral zone modeling.
	RADAR AND DRIFTER LABORATORY	OPNAV N096 / RR*	Involved in direct measurements of ocean surface circulation in both coastal and open-sea environments. Real-time telemetry provides access to HF radar data and drifting buoy data, and brings these data to the lab, classroom, and the WWW.

Source: Facilities Management (2014)

**MAJOR REPRESENTATIVE LAB FACILITIES BY DEPARTMENT AND SCHOOL**

Dept	LAB NAME	SPONSOR	LAB DESCRIPTION
PH	THRESHOLD CATHODE TEST FACILITY	RR*	Basic R&D experimental laboratory for developing advanced components for High Power Microwave Directed Energy Weapons. Includes ultra-high vacuum system, pulsed power, and various diagnostics.
	RAILGUNS AND DISCHARGES LABORATORY	RR*	Focus Area. Problems regarding railguns and transient electrical discharges are investigated in this laboratory. Problems in transient electrical discharges include discharge initiation history and temporal behavior after the initiation phase.
SE	SYSTEMS ENGINEERING DEMONSTRATIONS LABORATORY	Navsea SP	This laboratory maintains computers, special systems engineering software, and other software supporting class exercises, student thesis and capstone projects, and faculty research. (90% Instruction + 10% Research)
SP	SMALL SATELLITE LABORATORY	NRO NNSOC	This lab supports the space systems curricula through reimbursable instruction and research by development of small satellite and space flight experiments.
<b>GSOIS</b>			
CS	INTRODUCTORY COMPUTER SECURITY LAB	OPNAV N1	This lab is primarily used by the Center for Information Security Studies and Research (CISR). It is an "air-gapped" lab dedicated to studies of network vulnerabilities, intrusion detection, secure system management and computer forensics;
	COMP. INFORM. SECURITY (CISR) LAB	OPNAV N1 / RR*	Primarily used by INFOSEC and CISR. It is dedicated to studies of information assurance, computer security, high assurance system architecture and authentication. Used to introduce students to studies in high assurance systems, steganography, public key
DA	COMMON OPERATIONAL RESEARCH ENVIRONMENT LAB (CORE)	OPNAV N1 / RR*	The Common Operational Research Environment (CORE) Lab will allow testing of new analytical technologies and methods addressing the problems of terrorism, networked adversaries, irregular warfare, and insurgency
IS	NAVAL SIMULATION SYSTEM LABORATORY	OPNAV N1 / RR*	Mixed use laboratory dedicated to the support of instruction as well as reimbursable and direct funded basic and applied research projects.
	RIDDLR / WIRELESS WARFARE / NEMESIS LAB	OPNAV N1 / RR*	Mixed use laboratory dedicated to the support of instruction as well as reimbursable and direct funded basic and applied research projects.
OR	HUMAN SYSTEMS INTEGRATION LAB (HSIL)	OPNAV N1	Human Systems Integration Lab. This lab provides specialized Human Factors equipment, which measure some characteristic of human physiology.
	OPTIMIZATION COMPUTER LAB	OPNAV N1	Computationally intensive optimization.
<b>GSBPP</b>			
GB	APPLIED NETWORK PC LABORATORY	OPNAV N1	This lab provides hands-on instruction with microcomputer architecture and local area Network Design.
	ACQUISITION CONTRACTING COMPUTER LABORATORY	OPNAV N1 / RR*	Develop analytical and critical thinking abilities of students through the use of computer simulations and other management analysis tools.

RR\*=Reimbursable Research

Source: Facilities Management (2014)



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