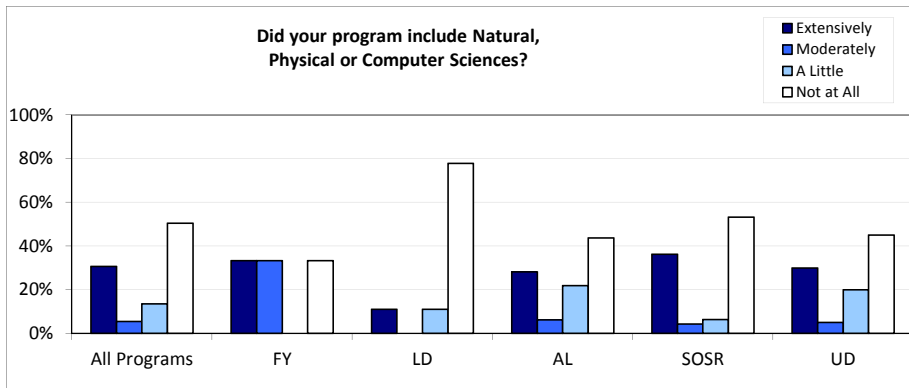


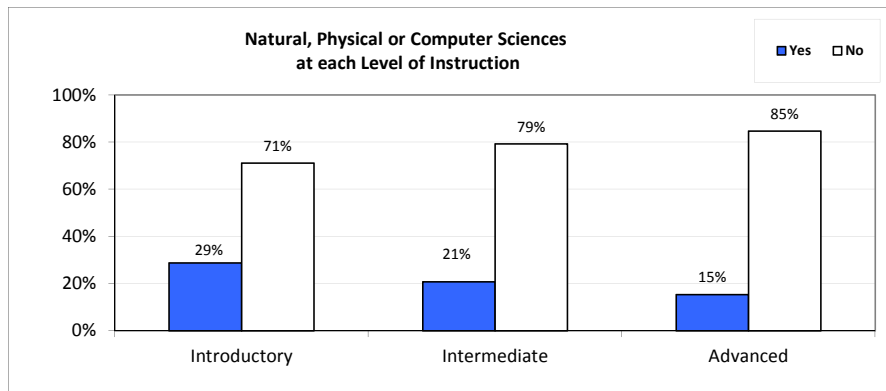
End-of-Program Review 2014-15

Natural, Physical or Computer Sciences in all Programs

The presence of natural, physical or computer sciences in programs offered in 2014-15 dropped from 53% the previous year to 50%. First-Year programs still included more natural, physical or computer sciences than any other program division (67%). Lower Division programs had the least presence of natural, physical or computer sciences with only 22%.



	Extensively	Moderately	A Little	Not at All	Percent of Programs with any Natural, Physical or Computer Sciences	Programs with any Natural, Physical or Computer Sciences (N)	Programs responded (N)
All Programs	30.6%	5.4%	13.5%	50.5%	49.5%	55	111
First-year (FY only)	33.3%	33.3%	0.0%	33.3%	66.7%	2	3
Lower Division (LD) FY-SO	11.1%	0.0%	11.1%	77.8%	22.2%	2	9
All Level (AL) FR-SR	28.1%	6.3%	21.9%	43.8%	56.3%	18	32
Sophomore-Senior (SOSR)	36.2%	4.3%	6.4%	53.2%	46.8%	22	47
Upper Division (UD) JR-SR	30.0%	5.0%	20.0%	45.0%	55.0%	11	20



Fields/areas of Natural, Physical or Computer Sciences

All programs with Natural, Physical or Computer Sciences	Program Type	Faculty	Extent	Introductory	Intermediate	Advanced
Undergraduate Research in Scientific Inquiry with A. Brabban	Andrew Brabban	SOSR	Extensively			Microbiology Microscopy Biochemistry
Washington State Legislative Internships	Cheri Lucas-Jennings	UD	Extensively		Biology - ivory and rhino poaching EXCEL for budget exercises	
Advanced Research in Environmental Studies with A. Styring	Alison Styring	UD	Extensively			Research in Ornithology
Advanced Research in Environmental Studies with C. LeRoy	Carri LeRoy	UD	Extensively			Biology Ecology Scientific writing
Avian Monitoring and Research Methods	Alison Styring	SOSR	Extensively		Ornithology (Zoology) Ecology	Research Methods
Bodies of Knowledge	Donald Morisato	SOSR	Extensively	Biology	Biology	
Chemistry Counts!	Dharshi Bopegedera	AL	Extensively	Chemistry		
Earth Dynamics: Climate, People and History	Nancy Koppelman	LD	Extensively	Physics Astronomy Climate Change Science Evolutionary Biology		
Evolution and the Human Condition	Heather Heying	AL	Extensively	Earth Sciences		Biology
Food: Coevolution, Community and Sustainability	Martha Rosemeyer and TJ Johnson	AL	Extensively	Ecology Biology and Botany Biochemistry Evolutionary Genetics Computer Science	Ecology Biology and Botany Biochemistry Evolutionary Genetics	
General Chemistry	Lydia McKinstry	AL	Extensively		General Chemistry	
Green Nature, Human Nature	Lardner	AL	Extensively	Plant Biology Ecology		
Health: A Biopsychosocial Inquiry	Carrie M. Margolin	SOSR	Extensively	Human biology Anatomy & physiology Nutrition		
Introduction to Environmental Studies	Gerardo Chin-Leo	SOSR	Extensively	Chemistry Ecology		
Models of Motion	Rachel Hastings	AL	Extensively	Physics	Physics	
Ornithology	Alison Styring	SOSR	Extensively	Zoology	Biology Zoology Evolutionary Biology Ecology Ornithology	Biology Zoology Evolutionary Biology Ecology Ornithology
Physical Systems and Applied Mathematics	Neil Switz, Ph.D.	SOSR	Extensively	Computer Science: MATLAB programming	Math: Vector calculus, linear algebra, some differential equations	Physics: Electricity and Magnetism; Quantum Mechanics; Classical Mechanics Math: Fourier techniques
Proteins, Plastics, and Pandemics	Carolyn Prouty	UD	Extensively		Epidemiology Public Health	Biology
River Resources	Ken Tabbutt	SOSR	Extensively	Physics	Earth Science	Hydrology
SOS: Agricultural Systems	David Muehleisen	SOSR	Extensively		Biology	Agriculture
Technical Writing in the 21st Century	Thuesen	SOSR	Extensively	Depending on student	Depending on student	Depending on student
The Chemistry of Living Systems	Paula Schofield	SOSR	Extensively		Organic Chemistry Biochemistry Chemical instrumentation	Organic Chemistry Biochemistry Chemical instrumentation
Trees	Fischer	FY	Extensively	Introductory Biology and Botany Natural History and Ecology of Trees Seminar in Environmental Science Tree Identification		
Undergraduate Research in Scientific Inquiry with C. Barlow	Clyde H. Barlow	SOSR	Extensively		Chemistry Computer science	
Undergraduate Research in Scientific Inquiry with D. Morisato	Donald Morisato	SOSR	Extensively		Genetics and Developmental Biology	Genetics and Developmental Biology

Undergraduate Research in Scientific Inquiry with J. Neitzel	Jim Neitzel	SOSR	Extensively			Chemistry Biology
Wildlife Biology: Birds and Fishes	Alison Styring	UD	Extensively		Population Biology Community Ecology Conservation/Management	Ichthyology Ornithology
Wildlife: Conservation and Writing	Impara	UD	Extensively		GIS	Landscape Ecology Wildlife Conservation Habitat Analysis
Cultural Landscapes: Sustainable Communities, Environmental Justice and the Media	Ted Whitesell	AL	Moderately	Sustainability Ecological restoration Conservation biology		
Consciousness: Pathways to the Self	Don Middendorf	FY	Moderately	Biology		
Multicultural Counseling: A Holistic Perspective	Heesoon Jun	UD	Moderately		Biology	
Russia and the Forging of Empires: Vikings, Mongols and Slavs	Patricia Krafcik	SOSR	Moderately	Much attention paid to geography of Russia and the Former Soviet Union: workshops, lectures, quizzes.		
Undergraduate Research in Civic Intelligence (Research and Action Laboratory)	Doug Schuler	SOSR	Moderately		Web Design Content management system	
Where Are You? Introduction to Geography and Geographical Awareness	Martha Henderson	AL	Moderately	Physical Geography		
Musical Theatre as Liberal Education: Interdisciplinary Lessons from Sondheim	Marla Beth Elliott	AL	A Little	Optics and color theory		
Poetry for the People: Landscapes of Community	Suzanne Simons	SOSR	A Little	Ornithology		
Radio Practice and Politics	Lorri Blewett	AL	A Little	Audio acoustics Sand editing software		
Reflecting on Activism: Custer Died for Your Sins	Yvonne Peterson	AL	A Little	Natural Science (Environmental Stewardship)		
Structures and Strictures: Fiction, Mathematics and Philosophy	Steven Hendricks	LD	A Little	Computer science and natural science in the context of philosophy		
The Art and Science of Sport	Mark Harrison/ Allen Mauney	SOSR	A Little	Physics		
Alternate Route	Jennifer Gerend	UD	A Little	Environmental Studies		
Healthcare in the U.S. - A Systemic Look	Nancy Anderson	SOSR	A Little	We used large databases to learn more about the health and healthcare in communities		
TRI: Rebuilding Native Nations-Strategies for Governance and Development (Port Gamble)	Cindy Marchand-Cecil	UD	A Little		STEM, understanding scientific analysis of fibers in ancient basketry found at Squaxin Island and the Olympic Peninsula, the process of carbon dating.	
Business for Good	Joe Tougas	AL	A Little	[Faculty did not elaborate.]		
SOS: Maritime Cultures, Pacific Northwest History, Pacific Northwest Native Cultures, Maritime Literature	Sarah Pedersen	AL	A Little	Marine science: minor labs in the field collecting and interpreting samples		
TRI: Rebuilding Native Nations-Strategies for Governance and Development (Nisqually)	Mary DuPuis	UD	A Little	[Faculty did not elaborate.]		
Understanding Language	Diego de Acosta	UD	A Little	[Faculty did not elaborate.]		
Urbanity, Smart Cities, and Civic Intelligence	Doug Schuler	AL	A Little	Engineering		
Worlds of Waste: Urbanization, Sanitation, and Design	Eric Stein	AL	A Little	We read a textbook on Wastewater Management that included some introductory biology.		