TRANSFER GUIDE FOR OREGON STATE UNIVERSITY

Major Offered At:

CORVALLIS ECAMPUS

CASCADES

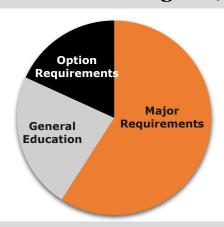
Chemeketa Community College

Natural Resources Major with Policy & Management Option

Natural Resources students are passionate about the world around them. They collaborate to preserve and protect the natural world for future generations.

This option prepares students for careers in the broad arena of natural resource and environmental conservation, with an emphasis on the social and political aspects of resource issues.

Your Bachelor's Degree (BS) in Natural Resources



- A minimum of 180 credits are required for graduation;
 60 must be upper division (300 and 400-level courses).
- A maximum of 135 credits earned at a community college may be applied toward a bachelor's degree at OSU.
- Only courses with letter prefixes and numbers above 100 are accepted.
- More info: forestry.oregonstate.edu/undergraduateprograms/natural-resources/policy-and-management

Courses Required for Natural Resources Major

NR Major Requirements Complete one course per category	Chemeketa Course	OSU Course	Notes
Managing Nat Res for the Future		NR 201	Available online at OSU
Natural Resource Problems & Solutions		NR 202	Available online at OSU
Consensus and Natural Resources		FES 485	Available online at OSU
Natural Resources Decision Making		NR 455	Available online at OSU
Advanced Communication			
Communication in Global Agriculture		AG 351	Available online at OSU
Social Media Advocacy in Ag Sci & Nat Res		AG 445	Available online at OSU
Risk & Crisis Communication in Ag Sci & NR		AG 455	
Small Group Communication		COMM 222	
Intercultural Communication		COMM 226	Available online at OSU
Communication in Organizations		COMM 324	
Non-Verbal Communication		COMM 328	
Communication in Cyberspace		COMM 385	Available online at OSU
Theories of Conflict and Conflict Management		COMM 440	
Bargaining and Negotiating Processes		COMM 442	
Environmental Case Studies		ENSC 321	Available online at OSU
Forest as Classroom		FES 430	Available online at OSU
Maps, Media and Communication		GEOG 202	
Effective Comm of Environmental Change Sci		GEOG 453	
Critical thinking for NR Challenges		NR 312	
Environmental Interpretation		TRAL 493	Available online at OSU
Technical Writing		WR 227Z	Available online at OSU
Advanced Writing & Argumentation		WR 323	Available online at OSU
Science Writing		WR 362	Available online at OSU
Writing for the Natural Sciences		WR 375	
Environmental Writing		WR 462	Available online at OSU



NR Major Requirements Complete one course per category	Chemeketa Course	OSU Course	Notes
Writing Intensive Course			
Ag and Environmental Predicaments		CROP/SOIL/SUS 325	
Environmental Case Studies		ENSC 321	Available online at OSU
Public Lands Policy and Management		FES 486	Available online at OSU
			Available offille at 050
Forest Policy and Regulation		FE/FOR 463	
Aquaculture		FW 497	
Climatology		GEOG 323	Available online at OSU
Research Methods		PS 300	Available online at OSU
Rangeland Management and Planning		RNG 491	Available online at OSU
World Soil Resources		SOIL 395	Available online at OSU
Environmental Writing		WR 462	Available online at OSU
Biology I			
Env Bio: Ecology, Cons., Global Change	BI 101	BI 101	Available online at OSU
Introductory Biology I		BI 204	Available online at OSU
Principles of Biology: Cells	BI 221Z	BI 221Z	
Biology II			
Animal Bio: Genes, Behavior, and Evolution	BI 102	Z 102	Available online at OSU
Introductory Biology II		BI 205	Available online at OSU
Principles of Biology: Organisms	BI 222Z	BI 222Z	
Biology III			
Human Bio: Anatomy, Phys, and Disease	BI 103	BI 103	Available online at OSU
Introductory Biology III	21 100	BI 206	Available online at OSU
Principles of Biology: Ecology & Evolution	BI 223Z	BI 223Z	Available offine at 050
Chemistry	BI ZZSZ	D1 2232	
General Chemistry I with Lab	CH 121	CH 121	Available online at OSU
General Chemistry (Majors) I with Lab	CH 221Z & 227Z	CH 221Z & 227Z	Available online at OSU
Climate Science	C11 2212 & 2272	CI1 2212 & 2272	Available offille at 030
Climate Science Climate Science		ATS 201	Available online at OSU
Snow, Smoke and Storms: Climate in PNW		ATS 341	Available online at OSU
Climatology		GEOG 323	Available online at OSU
Intro to Climate Change		SUS 103	Available online at OSU
Land Science		000 005	
Soil Science		CSS 205	Available online at OSU
Environmental Earth Science		ENSC 210	Available online at OSU
Planet Earth		GEO 101	Available online at OSU
Physical Geology	GEO 201	GEO 201	Available online at OSU
Earth Systems Science	GEO 202	GEO 202	
Global Change and Earth Sciences	GEO 203	GEO 308	Available online at OSU
Surface Processes		GEO 322	
Dynamic Planet		GEOG 102	Available online at OSU
Soil Science & Lab	SOIL 205	SOIL 205 & 206	
Water Science			
Watershed Processes		FE 430	Available online at OSU
Forest Watershed Management		FE 434	
Environmental Hydrogeology		GEO 387	Available online at OSU
Intro to Water Science and Policy		GEOG 340	Available online at OSU
Hydrology for Water Resource Mgmt		GEOG 424	
Oceanography	GS 108	OC 201	Available online at OSU
Intro to Biological Oceanography		OC 202	
Coastal Oceanography		OC 332	Available online at OSU
Ecology			
Ecology for Engineers		BEE 270	
Marine Ecology		BI 351	Available online at OSU
General Ecology		BI 370	Available online at OSU
Plant Ecology		BOT 341	Available online at OSU
Tropical Ecology and Conservation		ENSC 341	Available online at OSU
Forest Ecology		FES 341	Available online at OSU
Wildlife Ecology		FW 481	Available online at OSU
Intro to Wildland Ecology		RNG 121	Available online at OSU
Mathematics			
Elementary Functions	MTH 112Z	MTH 112Z	Available online at OSU
Calculus for Mgmt, Life, and Social Science	MTH 241	MTH 241	Available online at OSU
Math for Mgmt, Life, and Social Science		MTH 245	Available online at OSU
Differential Calculus	MTH 251Z	MTH 251Z	Available online at OSU
Differential Calculus	FITTI ZJIZ	FITTI ZJIZ	Available offille at 030

NR Major Requirements Complete one course per category	Chemeketa Course	OSU Course	Notes
Statistics			
Elementary Statistics I	STAT 243Z	ST 243Z	Available online at OSU
Intro to Statistical Methods	3777 2 132	ST 351	Available online at OSU
Animal Science		0.001	, wands o on the de ood
Forest Entomology		FES 412	
Terrestrial Vertebrate ID and Nat History		FOR 210	Available online at OSU
Principles of Fish & Wildlife Conservation		FW 251	Available online at OSU
Bio and Conservation of Marine Mammals		FW 302	Available online at OSU
Ornithology		FW 311	Available online at OSU
Systematics of Birds		FW 312	Available online at OSU
Ichthyology		FW 315	Available online at OSU
Systematics of Fishes		FW 316	Available online at OSU
, Mammalogy		FW 317	Available online at OSU
Systematics of Mammals		FW 318	Available online at OSU
Introductory Population Dynamics		FW 320	Available online at OSU
Applied Community and Ecosystem Ecology		FW 321	Available online at OSU
Ecology of Marine and Estuarine Birds		FW 331	Available online at OSU
Herpetofauna Conservation and Management		FW 448	Available online at OSU
Avian Conservation and Management		FW 451	Available online at OSU
Fishery Biology		FW 454	Available online at OSU
Mammal Conservation and Management		FW 458	Available online at OSU
Marine Conservation Biology		FW 464	Available online at OSU
Wildlife Ecology		FW 481	Available online at OSU
Animal Behavior		Z 350	Available online at OSU
Biology of Insects		Z 365	Available online at OSU
Herpetology		Z 473	Available online at OSU
Aquatic Entomology		Z 477	
Plant Science			
Botany: A Human Concern		BOT 101	
Intro to Plant Biology		BOT 220	Available online at OSU
Plant Systematics		BOT 321	Available online at OSU
Forest Pathology		BOT/FOR 413	
Aquatic Botany		BOT 416	
Flora of the Pacific Northwest		BOT 425	A - 11-11 11 1 - OG11
Mycology		BOT 461	Available online at OSU
Forest Biology		FES 240	Available online at OSU
Dendrology	HOD 336	FES 241 HORT 226	Available online at OSU Available online at OSU
Landscape Plant Mat I: Decid & Coniferous Landscape Plant Mat II: Shrubs	HOR 226 HOR 228	HORT 228	Available online at OSU
Wildland Plant Identification	HUR 228	RNG 353	Available online at OSU
Aquatic Ecosystems		KNG 333	Available offille at 050
Intro to Marine Biology		BI 150	
Oceans in Peril		BI 347	
Marine Ecology		BI 351	Available online at OSU
Mgmt Principles of Pacific Salmon in NW		FW 323	Available online at OSU
Integrated Watershed Management		FW 326	Available online at OSU
Coastal Ecology and Resource Management		FW 426	Available offilite at 050
Estuarine Ecology		FW/OC 434	
Freshwater Ecology and Conservation		FW 456	Available online at OSU
Riparian Ecohydrology and Management			Available online at OSU
Fish Ecology Wetlands and Riparian Ecology Hydrology for Water Resource Management Riparian Ecohydrology and Management		FW 473 FW 479 GEOG 424 RNG 455	Available online at OSU Available online at OSU Available online at OSU

NR Major Requirements Complete one course per category	Chemeketa Course	OSU Course	Notes
Terrestrial Ecosystems			
Forest Biology		FES 240	Available online at OSU
Forest Ecology		FES 341	Available online at OSU
Forest Types of the Northwest		FES 342	Available online at OSU
Urban Forestry		FES/HORT 350	Available online at OSU
Wildland Fire Ecology		FES 440	Available online at OSU
Ecological Restoration		FES 445	Available online at OSU
Biodiversity Conservation in Managed Forests		FES 452	Available online at OSU
Intro to Forestry		FOR 111	Available online at OSU
Topics in Wildland Fire		FOR 346	Available online at OSU
Silviculture Principles		FOR 441	Available online at OSU
Intro to Wildland Ecology		RNG 121	Available online at OSU
Rangeland Ecology and Management		RNG 341	Available online at OSU
Ecology of Grassland Ecosystems		RNG 351	Available online at OSU
Ecology of Shrubland Ecosystems		RNG 352	
Rangeland Restoration and Ecology		RNG 421	Available online at OSU
Vegetation Monitoring and Analysis		RNG 441	Available online at OSU
Rangeland-Animal Relations		RNG 442	
Ecosystems of Wildland Soils		SOIL 366	Available online at OSU
Soil Systems and Plant Growth		SOIL 388	Available online at OSU
World Soil Resources		SOIL 395	Available online at OSU
Soil Morphology and Classification		SOIL 466	
Environ. Assessment & Planning			
Agriculture & Environmental Predicaments		CROP/SOIL/SUS 325	
Ecological Restoration		FES 445	Available online at OSU
Urban Forestry Plannin, Policy, and Mgmt		FES/HORT 455	Available online at OSU
Ecosystems Services		FW 462	Available online at OSU
Land Use Planning for Sust. Communities		GEOG 250	Available online at OSU
Planning Principles for Resilient Communities		GEOG 451	Available online at OSU
Sustainable Site Planning		GEOG 452	Available online at OSU
Scientific Methods for Analyzing NR Problems		NR 325	Available online at OSU
Wildland restoration and Ecology		RNG 421	Available online at OSU
Habitat Analysis I		RNG 457	Available online at OSU
Rangeland Management and Planning		RNG 491	Available online at OSU
Sustainability Assessment		SUS 304	Available online at OSU
Sustainable Communities		SUS 350	Available online at OSU
Planning for Sustainable Recreation		TRAL 456	Available online at OSU
Planning for Sustainable Tourism		TRAL 457	Available online at OSU
Evaluating Sus through Life Cycle Analysis		WSE 385	Available online at OSU
Difference/Power/Oppression Advanced			
Indigenous Agriculture and Subsistence		AG 311	Available online at OSU
Anthro of Difference, Power, and Oppression		ANTH 411	
Environmental Justice		ENSC/GEOG 333	Available online at OSU
Power and Justice in US Nat Res Management		FW 340	Available online at OSU
Sustainability, Justice, and Engagement		SUS 331	Available online at OSU
Nat Resource Politics & Policy (choose 2)		150 100	
Environmental Law		AEC 432	Available online at OSU
Contemporary Native Issues		ANTH 472	Available online at OSU
Plagues, Pests, and Politics		ENT 300/HORT 330	Available online at OSU
Native American Law: Tribes, Treaties & US		ES 444	Available online at OSU
Forest Policy & Regulation		FE/FOR 463	
Public Lands Policy & Management		FES 486	Available online at OSU
Forest Policy & Regulation		FOR 461	
Endangered Species, Soc, and Sustainability		FW 350	Available online at OSU
Fish & Wildlife Law and Policy		FW 415	Available online at OSU
Introduction to Ocean Law		FW 422	
Conflict, Cooperation, and Control of Water		GEOG 440	
The World's Water		GEOG 441	Available online at OSU
Public Policy Problems		PPOL/PS 371	Available online at OSU
Policy and Law of US Coastal Governance		PPOL 446	Available online at OSU
Integrated Policy: Food, Energy, Water, Clim		PPOL 447	Available online at OSU
Marine Policy in the United States		PPOL 448	Available online at OSU
The Politics of Climate Change		PS 455	
U.S. Energy Policy		PS 473	Available online at OSU
The second of the Property of	i .	. DC 435	Available seline at OCII
Environmental Politics and Policy International Environmental Politics & Policy		PS 475 PS 477	Available online at OSU Available online at OSU

NR Major Requirements			
Complete one course per category	Chemeketa Course	OSU Course	Notes
Economics			
Intro to Environmental Economics & Policy		AEC 250	Available online at OSU
Intro to Microeconomics	EC 201Z	ECON 201Z	Available online at OSU
Social & Ethical Issues			
Environmental Law, Politics & Policy		AEC 253	Available online at OSU
Indigenous Ecosystem Science		AG 201	Available online at OSU
Anthropology, Health, and Environment		ANTH 352	Available online at OSU
Ecological Anthropology		ANTH 477	Available online at OSU
Natural Resources and Community Values		ANTH 481	Available online at OSU
Anthropology of International Development		ANTH 482	Available online at OSU
Human Impacts on Ecosystems		BOT 301	
Issues in Natural Resource Conservation		FES 365	Available online at OSU
Food From the Sea		FW 324	Available online at OSU
Global Crises in Resource Ecology		FW 325	Available online at OSU
Minerals, Energy, Water, and Environment		GEO 306	Available online at OSU
National Park Geology and Preservation		GEO 307	Available online at OSU
Climate Justice		GEOG 100	Available online at OSU
Human-Environment Geog in Anthropocene		GEOG 203	Available online at OSU
Human Dimensions of Climate Change		GEOG 240	Available online at OSU
Transforming Environmental Conflicts		GEOG 241	Available online at OSU
Urban Aqua Networks: Ancient to Modern		GEOG 242	
Sustainability for the Common Good		GEOG 300	Available online at OSU
Resilience-Based Natural Resource Mgmt		GEOG 430	Available online at OSU
Environmental History of the U.S.		HST 481	Available online at OSU
Humans and the Ocean		MAST 201	Available online at OSU
Society, Culture and the Marine Environment Critical Thinking for NR Challenges		MAST 300 NR 312	
Nature in Literature Over the Centuries		NR 312 NR 380	Available online at OSU
Oceans, Coasts & People		OC 203	Available online at OSU
Environmental Ethics		PHL 440	Available offilite at 030
World Views and Environmental Values		PHL/REL 443	
Native American Philosophies		PHL/REL 448	Available online at OSU
Energy, Climate, and Society		PPOL 441/SOC 482	Available online at OSU
Intro to Environment and Society		SOC 280	Available online at OSU
Social Dimensions of Sustainability		SOC 381	Available online at OSU
Rural Sociology		SOC 475	
Environmental Sociology		SOC 480	Available online at OSU
Society and Natural Resources		SOC 481	Available online at OSU
Social Dimensions of Sustainability		SUS 420	Available online at OSU
Recreation Resource Management		TRAL 251	Available online at OSU
Outdoor Recreation on Public Lands		TRAL 351	Available online at OSU
Nature, Eco, and Adventure Tourism		TRAL 353	Available online at OSU
Communities, Natural Areas, and Tourism		TRAL 354	Available online at OSU
Parks & Protected Areas		TRAL 357	Available online at OSU
Women and Natural Resources		WGSS 440	Available online at OSU
Spatial Analysis			
Precision Agriculture		CROP/HORT 414	Available online at OSU
GIS and Forest Engineering Applications		FE 257	Available online at OSU
Survey of Geographic Information Systems		FW 303	Available online at OSU
Foundations of Geospatial Science & GIS		GEOG 201	Available online at OSU
Geoscience I: GIS and Theory		GEOG 360	Available online at OSU

Courses Required for Policy & Management Option

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Requirement Complete one course per category unless	Chemeketa Course	OSU Course	Notes
otherwise noted			
Measurements Research Methods in Social Science		FES 422	Available online at OSU
Research Methods		PS 300	Available online at OSU
Human Dimen. of NR Mgmt (choose 2)			
Indigenous Ecosystem Science		AG 201	Available online at OSU
Ecological Anthropology		ANTH 477	Available online at OSU
Human Dimensions of Climate Change		GEOG 240	Available online at OSU
Land Use Planning for Sustainable Community		GEOG 250	Available online at OSU
Sustainability for the Common Good		GEOG 300	Available online at OSU
Geography of Natural Hazards		GEOG 350	Available online at OSU
Resilience-Based Nat Resource Management		GEOG 430	Available online at OSU
Plan Principles and Pract for Resilient Comm		GEOG 451	Available offinite at 656
Sustainable Site Planning		GEOG 452	Available online at OSU
Critical Thinking for NR Challenges		NR 312	Available offilite at 050
Intro to Sociology	SOC 204Z	SOC 204Z	Available online at OSU
Environmental Sociology	300 2042	SOC 480	Available online at OSU
Society and Natural Resources		SOC 481	Available online at OSU
Sustainability, Justice, and Engagement		SUS 331	Available online at OSU
Sustainable Communities		SUS 350	Available online at OSU
Politics & Policy of NR (12-13 credits)			
Intro to Climate Change Econ & Policy		AEC 122	Available online at OSU
Environmental Law, Policy, and Economics		AEC 253	Available online at OSU
Natural Resource Economics & Policy		AEC 351	Available online at OSU
Environmental Econ & Policy		AEC/ECON 352	Available online at OSU
Intro to Coastal and Marine Resource Econ		AEC 353	Available online at OSU
Environmental Law		AEC 432	Available online at OSU
Contemporary Native Issues		ANTH 472	Available online at OSU
Native American Law: Tribes & Treaties in US		ES 444	Available online at OSU
Issues in Natural Resource Conservation		FES 365	Available online at OSU
Public Lands Policy and Management		FES 486	Available online at OSU
Econ and Policy of Forest Wildland Fire		FOR 431	Available online at OSU
Forest Policy Analysis		FOR 461	
Forest Policy & Regulation		FOR 463	
Endangered Species, Soc. and Sustainability		FW 350	Available online at OSU
Fisheries and Wildlife Law and Policy		FW 415	Available online at OSU
Intro to Ocean Law		FW 422	Available online at OSU
Intro to Public Policy		PPOL 201	Available online at OSU
Public Policy Problems		PPOL/PS 371	Available online at OSU
Policy & Law of US Coastal Governance		PPOL 446	Available online at OSU
Policy: Food, Energy, Water, Climate		PPOL 447	Available online at OSU
Marine Policy in the United States		PPOL 448	Available online at OSU
Intro to US Gov't & Politics	PS 201	PS 201	Available online at OSU
The Politics of Climate Change		PS 455	Available online at OSU
Global Food Politics and Policy		PS 470	Available online at OSU
U.S. Energy Policy		PS 473	Available online at OSU
Environmental Politics and Policy		PS 475	Available online at OSU
Int'l Environmental Politics and Policy		PS 477	Available online at OSU
Renewable Energy Policy		PS 478	Available online at OSU
Resource Economics		1.5 175	, wandbie ominie de 050
Natural Resources Economics & Policy		AEC 351	Available online at OSU
Environmental Economics & Policy		AEC/ECON 352	Available online at OSU
Intro to Coastal & Marine Resource Econ		AEC/ECON 352 AEC 353	Available online at OSU
Econ of Traditional and Renewable Energy		ECON 466	Available online at OSU
Forest Resource Economics I		FOR 329	Available offille at USU
			Available online at OCU
Economics & Policy of Wildland Fire		FOR 431	Available online at OSU
Economics of Recreation & Tourism		TRAL 432	

Requirement			
Complete one course per category unless otherwise noted	Chemeketa Course	OSU Course	Notes
Conservation & Mgmt of NR (12 credits)			
Managing Organizations		BA 251	Available online at OSU
Field Methods in Plant Ecology		BOT 440	Available online at OSU
Environmental Case Studies		ENSC 321	Available online at OSU
Wildland Fire Ecology		FES 440	Available online at OSU
Urban Forest Planning, Policy, and Mgmt		FES/HORT 455	Available online at OSU
Ecological Restoration		FES 445	Available online at OSU
Topics in Wildland Fire		FOR 346	Available online at OSU
Wildland Fire Science and Management		FOR 436	Available online at OSU
Silviculture Principles		FOR 441	Available online at OSU
Survey of Geographic Information Systems		FW 303	Available online at OSU
Applied Community and Ecosystem Ecology		FW 321	Available online at OSU
Mgmt Principles of Pacific Salmon in NW		FW 323	Available online at OSU
Global Crises in Resource Ecology		FW 325	Available online at OSU
Integrated Watershed Management		FW 326	Available online at OSU
Herpetofauna Conservation & Management		FW 448	Available online at OSU
Avian Conservation & Management		FW 451	Available online at OSU
Mammal Conservation & Management		FW 458	Available online at OSU
Wetlands and Riparian Ecology		FW 479	Available online at OSU
Foundations of Geospatial Science and GIS		GEOG 201	Available online at OSU
Intro to Water Science and Policy		GEOG 340	Available online at OSU
Hydrology for Water Resource Mgmt		GEOG 424	
Water Resources Management in the US		GEOG 440	
Int'l Water Resource Management		GEOG 441	Available online at OSU
Intro to Non-Profit Management		NMC 311	Available online at OSU
Riparian Ecohydrology and Management		RNG 455	Available online at OSU
Rangeland Management and Planning		RNG 491	Available online at OSU
Parks and Protected Areas Management		TRAL 357	Available online at OSU

General Education Courses (called Core Education)

- Complete one course in each category.
- Full listing of Chemeketa courses that fulfill Core Ed requirements: <u>admissions.oregonstate.edu/core-education-course-articulations-chemeketa-community-college</u>

	Writing Foundations	WR 121Z required
	Arts & Humanities: General	
	Arts & Humanities: Global	
FOUNDATIONAL	Quantitative Literacy & Analysis	Fulfilled by major: MTH 112Z, MTH 241, or STAT 243Z
CORE	Communication, Media & Society	
CORE	Social Science	Fulfilled by major: EC 201Z
	Scientific Inquiry & Analysis	Fulfilled by major: Biology
	Scientific Inquiry & Analysis	Fulfilled by major: Chemistry
	Difference, Power, Oppression Foundations	
	Transitions	
	Beyond OSU I: Prepare	Fulfilled by major: NR 201
	Beyond OSU II: Engage	Fulfilled by major: NR 455
SIGNATURE CORE	Difference, Power, Oppression Advanced	Fulfilled by major: AG 311, ENSC/GEOG 333, SUS 331
SIGNATURE CORE	Seeking Solutions	Cannot be fulfilled by a major requirement
	Writing Elevation	
	Writing Intensive Course	Fulfilled by major: SUS 325, ENSC 321, FES 486, FOR 463, or WR 462

Advising Contacts

Academic advisors at your community college and OSU are available to answer your questions and assist you in creating a transfer plan. See your community college advisor first and use this Transfer Guide to help you plan. It is important to speak with your OSU academic advisor early on, and often, to ensure correct course selection and sequencing. See visitosu.oregonstate.edu/visit-campus to schedule your personalized visit.

Chemeketa Community College	Angela Archer 503-399-5120 advising@chemeketa.edu
OSU College of Forestry Student Services Office	541-737-1594 forestrystudentservices@oregonstate.edu