

Courses	Title	Credits	Prerequisites	Semester(s) Offered
Agriculture and Resource Economics				
AREC 442	Water Resource Economics	3	AREC 342; ECON 306 or concurrent registration	S
Atmospheric Science				
ATS 350/351	Introduction to Weather and Climate/Lab	2/1	NONE	F
Bioagricultural Science and Pest Management				
BSPM 445	Aquatic Insects	4	BZ 111 or LIFE 103	F
Botany and Zoology				
BZ 440/441	Plant Physiology/Lab	5	BZ 120 or LIFE 103	S
BZ 471/472	Stream Biology and Ecology	4	LIFE 320 or LAND 220 or LIFE 220	F (odd years)
BZ 474	Limnology	3	LIFE 320 or LAND 220/LIFE 220	F (even years)
Civil Engineering				
CIVE 322	Basic Hydrology	3	CIVE 202 or STAT 301 or STAT 315; CIVE 300 or CBE 331 or WR 416	F, S
CIVE 330	Ecological Engineering	3	CIVE 300 or LIFE 320; BZ 110; BZ 111 or BZ 120 or LIFE 102 or SOCR 240; CHEM 113	S
CIVE 413*	Environmental River Mechanics	3	CIVE 300 or WR 416	F
CIVE 423	Groundwater Engineering	3	CIVE 300 or CBE 331 or WR 416	S
CIVE 425	Soil and Water Engineering	3	CIVE 300 or CBE 331 or SOCR 240	S
CIVE 440	Nonpoint Source Pollution	3	CIVE 300 or CIVE 322 or SOCR 240 or WR 416	F
*Consult with Faculty Mentor before signing up for this class				
Ecosystem Science and Sustainability				
ESS 311	Ecosystem Ecology	3	PH 121 or 141; LIFE 320	F
ESS 312	Sustainability Science	3	ESS 311	S
ESS 412	Sustainable Cities	3	GR 100 or GR 210 or LIFE 220 or LIFE 320 or NR 120 or NR 130 or GES 101 or ANTH 100 or ANTH 200 or SOC 220	F
ESS 471	Special Topics in Ecosystem Sustainability	1-6	ESS 311	Variable

Geography

GR 333	Glaciers and Climate Change	3	GR 100 or GR 210 or GEOL 120/122/124/150	S
GR 410	Climate Change: Science, Policy, and Implications	3	3 credits of GR coursework	S

Geology

GEOL 452	Hydrogeology	4	GEOL 120 or GEOL 122 or GEOL 124 or GEOL 150 or GR 210; MATH 161 or MATH 255; PH 141.	F
GEOL 454	Geomorphology	4	(GEOL 120 or GEOL 122 or GEOL 124 or GEOL 150 or GR 210) and (STAT 301 or STAT 307 or STAT 315)	S

Natural Resources

NR 310	Ecosystem Services and Human Well-Being	3	AREC 202 or ECON 202 or ESS 211 or LAND 220/LIFE 220	S
NR 320	Natural Resources History and Policy	3	NONE	F, S
NR/GR 323	Remote Sensing and Image Interpretation	3	NONE	F
NR 422	GIS Applications for Natural Resource Management	4	NR 322 or NR 319	S

Natural Resource Recreation and Tourism

NRRT 330	Social Aspects of Natural Resource Management	3	NONE	F, S
NRRT 362	Environmental Conflict Management	3	NRRT 262	F

Rangeland Ecosystem Science

RS 478	Restoration Ecology	3	(BZ 450 or LAND 220 or LIFE 220 or LIFE 320) and SOCR 240	S
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Sociology

SOC 461	Water, Society, and Environment	3	SOC 100 OR SOC 105	F, S, SS
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Soil and Crop Sciences

SOCR 322	Principles of Microclimatology	3	3 credits of PH coursework	S
SOCR 440	Pedology	4	NONE	F

Watershed Science

WR 406	Seasonal Snow Environments	3	NONE	S (odd years)
WR 474	Snow Hydrology	3	NONE	F
WR 492	Seminar	1-6	NONE	F, S
WR 575	Snow Hydrology Field Methods	1	NONE	S