

Marine Science and Conservation Leadership Certificate

Course Options

Updated 10/9/2009

Introductory course - required for all certificate students			
ENVIRON	25	Introduction to Environmental Science and Policy	NS, STS
or			
ENVIRON	101	Integrating Environmental Sciences and Policy (for students with AP credit; permission of instructor req.)	NS, SS, STS, W
Leadership/Ethics/Communication courses - students choose ONE			
ENGR	108S	Ethics in Professions: Scientific, Personal and Organizational Frameworks	EI, STS
ENVIRON	105S	Ethical Challenges in Environmental Conservation	EI, W, SS
ENVIRON POLSCI PUBPOL	152S 152S 167S	Environment and Conflict: The Role of the Environment in Conflict and Peacebuilding	CCI, EI, W, SS
ENVIRON DOCST	172S 172S	Environmental Conservation and Documentary Photography	EI, R, ALP
ENVIRON ENGLISH	181 173	Science and Nature Writing	ALP, STS, W
MMS	120	Managerial Effectiveness	SS, STS
PHIL BIOLOGY	114 174	Philosophy of Biology	CZ, NS, R, STS
PHIL	115	Applied and Environmental Ethics	CZ, EI, STS
POLSCI	147D	Environmental Politics and Policies in the Developing World	CCI, EI, SS, STS
PPS	116D	Policy Choice as Value Conflict	EI, SS
PPS	140S	Women as Leaders	SS
PPS	144S	Enterprising Leadership	EI, SS
PPS	146	Leadership, Development, and Organizations	EI, SS
RELIGION	115BS	Buddhist Ethics	CCI, CZ, EI, W
RELIGION	129	Religion and Science: Biology, Minds and Souls	CCI, CZ, STS
THEATRST	148S	Voice and Speech	ALP
THEATRST	100S	Communication, Improvisation, and Business	ALP
Marine Science (Natural Science) courses - students choose ONE			
BIOLOGY	10L	Marine Biology	EI, NS, STS
BIOLOGY ENVIRON EOS	114L 114L 114L	Biological Oceanography	NS, R
BIOLOGY ENVIRON EOS	123 123 123	Analysis of Ocean Ecosystems	NS
BIOLOGY ENVIRON EOS	129L 139L 129L	Marine Ecology	NS, R, W
BIOLOGY	150L	Physiology of Marine Animals	NS, R, W
BIOLOGY	155L	Biochemistry of Marine Animals	NS, R, W
BIOLOGY	156L	Sensory Physiology and Behavior of Marine Animals	NS, R, W
ENVIRON	170	Physical Oceanography	NS, QS, STS
BIOLOGY ENVIRON EOS	176AL 176AL 176AL	Marine Invertebrate Zoology	NS, R
BIOLOGY ENVIRON	178L 178L	Marine Ichthyology	NS, STS
BIOLOGY ENVIRON	188 188	Research Methods in Marine Science	NS, R, W

BIOLOGY	190/191/297	Research Independent Study	<i>R</i>
BIOLOGY	254	Vertebrate and Invertebrate Endocrinology	<i>STS, NS</i>
CELLBIO ENVIRON	243 243	Environmental Biochemistry: Respiratory Proteins and the Environment	<i>NS, STS</i>
EOS	12	The Dynamic Oceans	<i>NS, STS</i>
EOS	102	The Fluid Earth	<i>NS, R</i>
EOS	115	Waves, Beaches, and Coastline Dynamics	<i>NS, STS</i>
EOS	123	Hydrogeology	<i>EI, NS, STS</i>
EOS	187S	Marine Geology of South Florida	<i>NS, R</i>
ENVIRON	218L	Barrier Island Ecology	<i>NS, R</i>
ENVIRON	225	Coastal Ecotoxicology and Pollution	<i>NS</i>
ENVIRON	298.36	Fisheries Ecology	~
Marine Science (Social Science) courses - students choose ONE			
ECON ENVIRON	163 163	Economics of the Environment	<i>SS, STS</i>
ECON	163S	Economics of the Environment	<i>SS, STS, W</i>
ENVIRON	175	Marine Policy	<i>EI, SS, STS</i>
ENVIRON	187	Hollywood and the Environment	<i>ALP, SS, CCI</i>
ENVIRON DOCST	189 119	Views of Environmental Change: Documentary Research in Natural Resource Management	<i>EI, R, SS</i>
ENVIRON	251	International Conservation and Development	<i>NS</i>
ENVIRON	252	Sustainability and Renewable Resource Economics	<i>SS, STS, R</i>
ENVIRON	270	Resource and Environmental Economics	<i>SS</i>
ENVIRON	273	Marine Fisheries Policy	<i>EI, SS, STS</i>
ENVIRON	298.46	Green by Design	<i>SS, STS</i>
Marine Conservation courses - students choose ONE			
BIOLOGY	109	Conservation Biology and Policy	<i>NS, STS, EI</i>
BIOLOGY ENVIRON	125/125L 135/135L	Biology and Conservation of Sea Turtles	<i>NS, STS</i>
BIOLOGY	126/126L	Marine Mammals	<i>NS, STS</i>
BIOLOGY ENVIRON	127 127	Marine Megafauna	<i>NS, STS</i>
BIOLOGY	216	Sojourn in Singapore: Urban Tropical Ecology	<i>CCI, NS, SS, STS</i>
ENVIRON	256.02	Molecules to Management	<i>NS, SS</i>
Capstone course - required for all certificate students			
ENVIRON PUBPOL	186S 187S	Marine Science and Conservation Leadership Capstone: From Water to Washington and Back	<i>NS, SS, STS</i>

Courses highlighted in light blue are offered at the Duke Marine Lab

***Other courses may be approved with permission from the director of the certificate program. For consideration, please email your request with a copy of the course synopsis to katie.wood@duke.edu.*

Duke Curriculum Codes

ALP = Arts, Literatures, and Performance; CCI = Cross-Cultural Inquiry; CZ = Civilizations; NS = Natural Sciences; R = Research; SS = Social Sciences; EI = Ethical Inquiry; STS = Science, Technology, and Society; W = Writing

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