FIVE COLLEGE COASTAL & MARINE SCIENCES CERTIFICATE COURSES

Master list: These courses are not all offered every semester or every year

ECOLOGY and BIODIVERSITY

SCHOOL	COURSE	TITLE
AC	BIOL 181	Adaptation and the Organism
AC	BIOL 230	Ecology
AC	BIOL 280/281	Animal Behavior
AC	BIOL 320	Evolutionary Biology
AC	BIOL 440	Conservation Biology
AC	BIOL 454	Seminar in Tropical Biology
AC	BIOL 464	Seminar in Morphology
AC	ENST 210	Ecology
AC	ENST 441	Conservation Biology
AC	GEOL 107	Marine Environments
AC	GEOL 251	Paleontology & Geobiology
HC	CS 0179	Animal Behavior (with marine paper)
HC	CS 0190	Animal Minds
HC	CS 0216	Animal Behavior I (with marine paper)
HC	CS 0220	Animal Behavior II (with marine paper)
HC	CS 0239	Animal Behavior Theory (with marine paper)
НС	CS 0259	Marine Mammals
НС	CS 0260	Cognition in Whales and Dolphins
НС	CS 0304	Cetacean Communication
HC	NS 0145	Earth and Life through Time
HC	NS 0207	Ecology
HC	NS 0267	Ecosystems Ecology
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MHC	BIOL 145 EX	Intro Biology: Exploring Biodiversity
MHC	BIOL 145 MB	Intro Biology: Marine Organismal Biology
MHC	BIOL 223	Ecology
MHC	BIOL 226	Evolution
MHC	BIOL 315	Behavioral Ecology
MHC	BIOL 318	Aquatic Biology
MHC	BIOL 321BE	Inquiries in Behavioral Ecology (with marine project)
MHC	BIOL 321CR	Coral Reefs in a Changing Climate
MHC	BIOL 321ME	Molecular Ecology
MHC	BIOL 321MR	Marine Invertebrate Ecophysiology
MHC	BIOL 321TH	Ornithology
MHC	BIOL 331	Conservation Biology
MHC	ENVST 335	Wetlands Ecology and Restoration (with marine paper)
MHC	BIOL 337	Symbiotic Interactions
MHC	GEOL 115	Emergence of Animals
MHC	GEOL 224	Paleontology/Stratigraphy
SC	BIO 130/131	Biodiversity, Ecology and Conservation
SC	BIO 260/261	Invertebrate Diversity
SC	BIO 266/267	Ecology: Principles and Applications
SC	BIO 268/269	Marine Ecology

(ECOLOGY and BIODIVERSITY, continued)

SC	BIO 366	Biogeography
SC	BIO 371	Microbial Diversity Lab
SC	BIO 390cr	Topics in Environmental Biology: Ecology of Coral Reefs
SC	BIO 390cb	Topics in Environmental Biology: Investigations in Conservation Biology
SC	GEO 231	Invertebrate Paleontology and Paleoecology
UM	BIOLOGY 273	Biology of Marine Vertebrates (not currently offered)
UM	BIOLOGY 280	Evolution: Diversity of Life Thru Time
UM	BIOLOGY 287	Introductory Ecology
UM	BIOLOGY 424	Marine Biology
UM	BIOLOGY 487H	Tropical Field Biology
UM	BIOLOGY 540	Herpetology
UM	BIOLOGY 542	Ichthyology (not currently offered)
UM	BIOLOGY 544	Ornithology
UM	BIOLOGY 548	Mammalogy
UM	BIOLOGY 550	Animal Behavior
UM	BIOLOGY 597G	Environmental Evolution
UM	ECO 697 J	Ecology of Diadromous Fish
UM	ENVIRSCI 214	Ecology, Biodiversity, and Global Change
UM	GEOLOGY 107H	Life's History and Biogeochemistry
UM	GEOLOGY 483	Environmental Evolution
UM	GEO-SCI 541	Paleoecology
UM	GEO-SCI 591M	Marine Micropaleontology
UM	MICROBIO 494SI	A Sea of Microbes
UM	NRC 252	Fundamentals of Applied Ecology
UM	NRC 360 (390E)	Evolution and Conservation
UM	NRC 494GI	Global Change Ecology
UM	NRC 560 (590AE)	Aquatic Ecology
UM	NRC 570	Ecology of Fish
UM	NRC 573	Behavioral Ecology and Conservation
UM	NRC 590M	Marine Ecology
UM	NRC 590STA	Vertebrate Ecology
UM	NRC 597CB	Conservation and Animal Behavior

GEOLOGY and CHEMISTRY

SCHOOL	COURSE	TITLE
AC	GEOL 105	Oceanography
AC	GEOL 109	Climate Change, Global Warming, and Energy Resources
AC	GEOL 111	Planet Earth (Intro Geology)
AC	GEOL 112	Surficial Earth Dynamics: Climate, Environment, and Life
AC	GEOL 301	Hydrogeology
AC	GEOL 311/ENST 301	Sediment & Stratigraphy
AC	GEOL 331	Paleoclimatology
AC	GEOL 351	Plate Tectonics: Integrated Geology and Geophysics
AC	GEOL 450	Seminar in Biogeochemistry
HC	NS 0106	Earth Resources
HC	NS 0126/0326	Water in a Changing Climate
HC	NS 0194	Geological Controversies
HC	NS 0269	Geomorphology

(GEOLOGY and CHEMISTRY, continued)

MHC	GEOL 100	Physical Geology
MHC	GEOL 102	History of Life
MHC	GEOL 103	Oceanography
MHC	GEOL 107	Environmental Geology
MHC	GEOL 202	History of the Earth
MHC	GEOL 203	The Earth's Surface (Surface Processes)
MHC	GEOL 210	Plate Tectonics
MHC	GEOL 240	Geological Resources and the Environment
MHC	GEOL 326	Climate Change: Polar Places (Global Climate Change)
MHC	GEOL 342PE	Plastics in the Environment
SC	CHM 346	Environmental Analytical Chemistry
SC	GEO 101	Introduction to Earth Processes and History
SC	GEO 104	Global Climate Change
SC	GEO 106	Extraordinary Events in History of Earth, Life & Climate
SC	GEO 108	Oceanography
SC	GEO 109	The Environment
SC	GEO 232	Sedimentary Geology
SC	GEO 251	Geomorphology
SC	GEO 334	Carbonate Sedimentology
SC	GEO 361	Tectonics and Earth History
UM	ENVIRSCI 504	Air Pollution & Climate Change Biology
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RESOURCE MANAGEMENT, POLICY, and SCIENTIFIC SKILLS

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(RESOURCE MANAGEMENT, POLICY, and SCIENTIFIC SKILLS, continued)

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(RESOURCE MANAGEMENT, POLICY, and SCIENTIFIC SKILLS, continued)

UM	NRC 571	Fisheries Science and Management & Policy
UM	NRC 573	Behavioral Ecology and Conservation
UM	NRC 576	Water Resources Management and Policy
UM	NRC 578	Watershed Science & Management
UM	NRC 585	Intro GIS
UM	NRC 590D	Marine Conservation and Policy
UM	NRC 597GC	Global Environmental Conservation
UM	NRC 597CB	Conservation and Animal Behavior
UM	NRC 597SA	Sustainable Aquaculture
UM	RES-ECON 262	Environmental Economics
UM	RES-ECON 263	Natural Resource Economics
Any GIS or	remote sensing class ne	ot listed here can be used to fulfill this course category

MHCBIOL 326Ocean Blues: World OceansThis course counts as one of the three courses from "any category"

See below for a detailed explanation of the course requirements

Five College Coastal & Marine Sciences Certificate Course Requirements

1) Six courses: one from each of the three categories above. The GEOLOGY/CHEMISTRY category will be fulfilled by taking Oceanography. The remaining three courses can be selected from any category.

2) At least three of the six courses must be above introductory level, and in at least two fields of study (for example, cannot all be biology courses).

3) At least two courses in **bold** must be taken (**bold indicates that the course has a heavy concentration in coastal and marine sciences)**. A course in oceanography is required, and will serve as one of the courses in bold.

Courses at study-away institutions may be applied to this and other Certificate course requirements (pre-approval is required; see below).

4) Students must receive a cumulative grade point average of 3.0 or better for all courses contributing to the Certificate requirements. (Advisors of Hampshire College students will determine the grade equivalents for courses, based on written evaluations supplied by course instructors.)

Approval of Unlisted Courses

The student must present the Five College Coastal & Marine Sciences Program Coordinator with a course description and syllabus. Course approval is at the discretion of the FCCMS Steering Committee. This procedure applies to all courses taken through academic off-campus programs and transfer credits from other institutions, as well as Five College courses that are not posted on the FCCMS course list (above).