

OCEAN STUDIES - BA

Program Requirements

First Year

Fall		Semester Credit Hours
CHEM 119	Fundamentals of Chemistry I	4
ENGL 104	Composition and Rhetoric	3
MATH 140	Mathematics for Business and Social Sciences	3
OCNG 251	The Blue Planet - Our Oceans	3
OCNG 252	The Blue Planet - Our Oceans Laboratory	1
OCNG 101	Succeeding in Oceanography	1
Semester Credit Hours		15

Spring

CHEM 120	Fundamentals of Chemistry II	4
MATH 142	Business Calculus	3-4
	or MATH 151 or Engineering Mathematics I	
Select from the following:		4
PHYS 201	College Physics	
PHYS 206 & PHYS 226	Newtonian Mechanics for Engineering and Science and Physics of Motion Laboratory for the Sciences	
American history (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history)		3
Semester Credit Hours		14

Second Year

Fall		Semester Credit Hours
BIOL 107	Zoology	4
	or BIOL 111 or Introductory Biology I	
OCNG 203	Communicating Oceanography	3
STAT 303	Statistical Methods	3
	or STAT 211 or Principles of Statistics I	
Minor ²		3
General elective ¹		2-3
Semester Credit Hours		16

Spring

COMM 203	Public Speaking	3
	or COMM 205 or Communication for Technical Professions	
OCNG 330	Geological Oceanography	3
OCNG 340	Chemical Oceanography	3
American history (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history)		3
Minor ²		3
Semester Credit Hours		15

Third Year

Fall		Semester Credit Hours
OCNG 320	Biological Oceanography	3

OCNG 411	Global Oceanography	3
Creative arts (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts)		3
Minor ²		3
Oceanography elective ³		3

Semester Credit Hours 15

Spring		Semester Credit Hours
OCNG 303	Professional Communication in Oceanography	3
OCNG 443	Oceanographic Field and Laboratory Methods	3
Government/Political science (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#government-political-science)		3
Minor ²		3
Technical elective ⁴		3

Semester Credit Hours 15

Fourth Year

Fall		Semester Credit Hours
Social and behavioral sciences (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#social-behavioral-sciences)		3
Minor ²		3
Oceanography elective ³		6
General elective ¹		3
Semester Credit Hours		15

Spring

OCNG 461	Advanced Oceanographic Data Analysis and Communication	3
Government/Political science (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#government-political-science)		3
Language, philosophy and culture (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture)		3
Oceanography elective ³		3
Technical elective ⁴		3

Semester Credit Hours 15

Total Semester Credit Hours 120

¹ Select any courses from 100-499 not used elsewhere except AERS 100-499 (<http://catalog.tamu.edu/undergraduate/course-descriptions/aers/>); ASCC 100-499 (<http://catalog.tamu.edu/undergraduate/course-descriptions/ascc/>); ENGL 103; KINE 198, KINE 199; MATH 102, MATH 142, MATH 150, MATH 151, MATH 171; MLSC 100-499 (<http://catalog.tamu.edu/undergraduate/course-descriptions/mlsc/>); NVSC 100-499 (<http://catalog.tamu.edu/undergraduate/course-descriptions/nvsc/>); SOMS 100-499 (<http://catalog.tamu.edu/undergraduate/course-descriptions/soms/>); STAT 211, STAT 302, STAT 303.

² All students must complete a university approved minor for this degree.

³ Select from any OCNG 300-499 (<http://catalog.tamu.edu/undergraduate/course-descriptions/ocng/>) class not required for the degree, GEOL 442/GEOG 442, GEOL 443/GEOG 443.

⁴ Select from ATMO 201, ATMO 203, ATMO 210, ATMO 251, ATMO 300-499 (<http://catalog.tamu.edu/undergraduate/course-descriptions/atmo/>); BESC 314, BESC 320, BESC 357, BESC 367, BESC 401,

BESC 402, BESC 403, BESC 431; BIOL 111, BIOL 112, BIOL 206, BIOL 213, BIOL 214, BIOL 300-499 (<http://catalog.tamu.edu/undergraduate/course-descriptions/biol/>); CHEM 200-499 (<http://catalog.tamu.edu/undergraduate/course-descriptions/chem/>); ECCB 300/ENTO 300, ECCB 304, ECCB 403, ECCB 448; GEOG 312, GEOG 330, GEOG 352/GEOL 352, GEOG 361, GEOG 390, GEOG 392; STAT 300-499 (<http://catalog.tamu.edu/undergraduate/course-descriptions/stat/>); OCNG 300-499 (<http://catalog.tamu.edu/undergraduate/course-descriptions/ocng/>); RWF 309/VTPB 301, RWF 404, RWF 405, RWF 408, RWF 443, RWF 447.