

GENERAL CURRICULUM (default if no concentration declared)

General Biodiversity (excess units will go to Approved Elect) BOT 313, 433; MCRO 224, 402; MSCI 324; ZOO 321, 322, 323, 329, 335, 336, 341, 425	4
General Upper Division Electives (excess to Approved Elect) Select any 300-400 level BIO/BOT/MCRO/MSCI/ZOO course, except BIO 330, 400, 450, 462, 463, 470, 471, 472; SCM 302/ENGR 322	20
General Approved Electives¹ Any BIO/BOT/MCRO/MSCI/ZOO course; 6 unit max from BIO 330, 400, 450, 462, 463, 470, 471, 472; SCM 302 Courses can also be selected from any other concentration in BIO, but no more than 15 units can be selected from: AduG/EDES/ENGR/ISLA/SCM/UNIV 350; ASCI 329, 351, 403, 405, 406, 438, 503; CHEM 217, 218, 220, 223, 313/371, 331, 341, 372, 377, 474, 478, 528; FSN 310, 429; GEOG/ERSC 250; KINE 406, 445, 446; NR/LA 218; NR 141, 142, 311, 404, 416, 418, 425; PHIL 339/PHIL 341/SCM 451; PSC 201; PSY 340; SCM 302/ENGR 322; SS 121, 321, 322, 422; STAT 313, 324, 330, 416, 419, 421.	19
Max of 10 units of lower-division coursework.	
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ANATOMY AND PHYSIOLOGY CONCENTRATION

BIO 452 Cell Biology	4
CHEM 371 or CHEM 313	5
A&P Biodiversity Elective (any excess unit goes to Add'l Elect) AEPS/BOT 323, BIO 415; BOT 313, 433; MCRO 224; MSCI 324, 437; ZOO 321, 322, 323, 329, 335, 336, 341	4
A&P Core Electives⁴ (excess will go to Add'l Elect) BIO 407 or ASCI 405; BIO 406, 408, 409, 410, 426	16
A&P Approved Elective (excess will go to Add'l Elect) BIO 407 or ASCI 405; BIO 405, 406, 408, 409, 410, 426, 434, 435; BIO/CHEM 475; MCRO 225, 320, 342, 402, 423, 424; ZOO 425, 428	3
A&P Additional Electives¹ ASCI 351, 406, 438; BIO 407 or ASCI 405; BIO 400, 405, 406, 408, 409, 410, 426, 434, 435, 462 ² , 463; BIO/CHEM 475; CHEM 217, 218, 220, 223, 372; FSN 310, 429; KINE 406, 445, 446; MCRO 225, 320, 342, 402, 423, 424; PHIL 339 or PHIL 341 or SCM 451; PSY 340; SCM 302/ENGR 322; ZOO 425, 428.	11
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ECOLOGY CONCENTRATION

Ecology Levels BIO 442, 444, 445, 446	12
Systems and Applications BIO 327, 401, 415; BOT 326; MSCI 328	12
Ecology Biodiversity (any excess unit goes to Approved Elect) BOT 313, 433; MCRO 224; MSCI 437; ZOO 321, 322, 323, 329, 335, 336, 341, 425	4
Ecology Approved Electives¹ (max of 8 units can be taken outside BIO/BOT/MCRO/MSCI/ZOO) AG/EDES/ENGR/ISLA/SCM/UNIV 350; BIO 327, 330, 361, 400, 401, 415, 419; NR/SS 421, 427, 434, 435, 442, 444, 445, 446, 462, 463, 472; BIO/CHEM 441, 475; BOT 311, 313, 326, 433; GEOG/ERSC 250; MCRO 224, 424, 436; MSCI 328, 437, 439, 440; NR/LA 218; NR 311, 418; SCM 302/ENGR 322; SS 121, 321, 322, 422; STAT 313, 419; ZOO 321, 322, 323, 329, 335, 336, 341, 425	15
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WILDLIFE AND BIODIVERSITY CONSERVATION CONCENTRATION

BOT 313 Taxonomy of Vascular Plants	4
BOT 433 Field Botany	4
BIO 401 Conservation Biology	4
NR/LA 218 Applications in GIS	3
Wildlife Zoology Electives ZOO 321, 322, 323, 335, 336, 341	12
Wildlife Ecology Electives BIO 427, 444, 445	8
W & B Approved Electives¹ ASCI 329; BIO 327, 330, 400, 415, 419, 427, 434, 442, 446, 462, 463; BOT 326; MSCI 328, 437, 439; NR 141, 142, 404, 416, 418, 425; SCM 302/ENGR 322; STAT 313, 324, 330, 416, 419, 421; ZOO 329, 335, 425	8
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MARINE BIOLOGY AND CONSERVATION CONCENTRATION

PSC 201 Physical Oceanography	4
STAT 313 Applied Exp. Design & Regression Models	4
Marine Biodiversity MSCI 324, 437; ZOO 322, 336	8
Marine Resources and Conservation BIO 401; MSCI 428, 438, 439	8
Marine Approved Electives¹ (excess units go to Additional Elect) BIO 327, 400, 401, 405, 419, 434, 435, 442, 444, 445, 446, 452, 462, 463; BIO/ CHEM 475; MCRO 436; MSCI 324, 438, 439, 440; ZOO 321, 323, 425	11
Marine Additional Electives BIO 327, 400, 401, 405, 419, 434, 435, 442, 444, 445, 446, 452, 462, 463; BIO/ CHEM 475; CHEM 217, 313/371, 341, 474; MCRO 436; MSCI 324, 438, 439, 440; SCM 302/ENGR 322; ZOO 321, 323, 425	8
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MOLECULAR AND CELLULAR BIOLOGY CONCENTRATION

BIO 452 Cell Biology	4
BIO/CHEM 475 Molecular Biology Laboratory	3
CHEM 217 Organic Chemistry II	3
CHEM 220 Organic Chem Lab II	1
CHEM 371 Biochemical Principles	5
CHEM 372 Metabolism	4
MCRO 224 General Microbiology I	5
Molecular/Cell Approved Electives (excess goes to Add'l Elect) ASCI 403; BIO 405, 426, BIO/CHEM 441, 476; CHEM 474; MCRO 402, 433; ZOO 428	9
Molecular/Cell Additional Electives¹ Any upper-division BIO/BOT/MCRO/MSCI/ZOO course or any of the following: ASCI 403, 406, 503; BIO/CHEM 202; CHEM 218 & 223, 331, 377, 474, 478, 528; PHIL 339 or PHIL 341 or SCM 451; SCM 302/ENGR 322; STAT 313. No more than 6 units from BIO 400, 462, 463, 485, and 495.	9
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¹ Consultation with advisor is recommended prior to selecting approved electives; bear in mind your selections may impact pursuit of post-bacc studies and/or goals.

² BIO 462 counts as an approved elective only if the student also completes BIO 461.