

Non-Science Majors Course Offerings

Course		Title	Pre-requisite
BIOL	1103	Introductory Biology Lab	Co-requisite recommended: BIOL 1203 or 1303 (see advisor)
BIOL	1104	Human Biology Lab	Co-requisite recommended: BIOL 1304 (see advisor)
BIOL	1203	Introductory Biology	Departmental Approval/ See your advisor
BIOL	1303	Introductory Biology	Departmental Approval/ See your advisor
BIOL	1304	Human Biology	Co-requisite 1104
BIOL	3351	Toxicology	None
BIOL	3357	Forensic DNA Analysis	None
MICR	2330	Microorganisms and Disease	BIOL 1305-1107 with C or better

Possible Upper Division Courses for a MINOR in Biological Sciences

Course		Title	Pre-requisite
BIOL	3316	Ecology	BIOL 1306-1108
BIOL	3320	Genetics	BIOL BIOL 1306-1108
BIOL	3330	Histology	BIOL 1306-1108
BIOL	3342	Plants and People	BIOL 1306-1108
BIOL	3351	Toxicology	N/A
BIOL	3357	Forensic DNA Analysis	N/A
BIOL	4324	Genetic, Env & Evol-Anim	BIOL 1306-1108
BIOL	4370	History/Philosophy Biology	BIOL 1306-1108
BIOL	4395	Special Topics in Biology	Varies
ZOOL	3464	Medical Parasitology	ZOOL 2406 or BIOL 1306-1108
ZOOL	4384	Neurobiology	ZOOL 2406 or ZOOL 4380 or BIOL 1306-1108

NOTE: degrees that still require BIOL 1303:

- Education old degrees (not in new degrees) – prior to 2018 catalog
- BIS old degrees (4-8th science and math) – prior to 2018

Majors Courses

Course		Title	Pre-requisite
BIOL	2111	Human Anat/Physio Lab I (C)	BIOL 2311 co-requisite
BIOL	2311	Human Anat/Physiology I (C)	BIOL 1305 -1107 or ZOOL 2406
BIOL	2113	Human Anat/Physio Lab II (C)	BIOL 2313 co-requisite
BIOL	2313	Human Anat/Physiology II (C)	BIOL 1305 -1107 or ZOOL 2406
BIOL	2340	Introductory Neuroscience	BIOL 1305-1107 or BIOL 1306-1108 or PSYC 1301
BIOL	3192	Professional Development Seminar	Department approval & BIOL 1305-1107/1308-1108, CHEM 1305-1105/1306-1106, and MATH 1411 or STAT 2480
BIOL	3115	Molecular Cell Biology Lab	MICR 2340-2141 and CHEM 1306
BIOL	3314	Molecular Cell Biology	MICR 2340-2141, CHEM 1306-1106, MATH 1508
BIOL	3320	Genetics	BIOL 1305-1107 and BIOL 1306-1108
BIOL	3321	Evolution (Evolutionary Theory)	BIOL 3320
BIOL	3330	Histology	ZOOL 2406 or BIOL 1306-1108 or BIOL 2311 or BIOL 2313
BIOL	3375	Forensic Pathobiology	BIOL 1305 and BIOL 1306 and CHEM 2324 and CHEM 2325
BIOL	4195	Advanced Methods in Biology	Co-requisite requirement - BIOL 4395
BIOL	4198*	Special Problems	None (requires instructor/departmental approval)
BIOL	4298*	Special Problems	None (requires instructor/departmental approval)
BIOL	4315	Population Genetics	BIOL 1305, 1306, 3320 or 3321, STAT 2480 or MATH 1312
BIOL	4319	G Protein-Coupled Receptor	Departmental Approval – check prereqs BIOL 3314-3115
BIOL	4320	Endocrinology	BIOL 1305-1107 and CHEM 1306-1106
BIOL	4321	Developmental Biology	BIOL 4388 OR BIOL 3314-3115
BIOL	4330	Cancer Biology	BIOL 1306 and BIOL 3314 and MICR 2340
BIOL	4370	History/Philosophy Biology	BIOL 1306-1108
BIOL	4388	Mammalian Physiology - Spring	BIOL 2313 or BIOL 3314-3115
BIOL	4389	Developmental Neurobiology	BIOL 3314-3115 (can be taken concurrent) – Dept.approval
BIOL	4395	Topics in Biology (Can only be taken twice)	Varies with course topic
BIOL	4398*	Special Problems	None (requires instructor/departmental approval)
CBCH			
CBCH	3316	Membrane Biology - Fall	BIOL 3314-3115 and CHEM 2325
CBCH	4414	Cellular Biochemistry - Spring	BIOL 3314-3115 and CHEM 3330 and CBCH 4310
CBCH	4310	Techniques in Molecular Biochemistry - Fall	BIOL 3314-3115 and CHEM 3330
CBCH	4320	Advanced Topics in Molecular Biochemistry- SP	BIOL 3314-3115 and CHEM 3330
MICR			
MICR	2141	General Microbiology Lab	MATH 1508 and BIOL 1306-1108 and CHEM 1306-1106 (CHEM can be concurrent)
MICR	2340	General Microbiology	MATH 1508 and BIOL 1306-1108 and CHEM 1306-1106 (CHEM can be concurrent)
MICR	3144	Pathogenic Microbiology Laboratory - Spring	MICR 2340-1231 and MICR 2340, Co-Req.: MICR 3343
MICR	3343	Pathogenic Microbiology - Spring	MICR 2340-2141
MICR	3146	Microbial Physiology Laboratory - Fall	MICR 2340-2141 and [CHEM 2325-2125 (can be concurrent)]
MICR	3345	Microbial Physiology - Fall	MICR 2340-2141 and [CHEM 2325-2125 (can be concurrent)]
MICR	3449	Prokaryotic Molecular Genetics - Spring	BIOL 3320 or MICR 2340-2141
MICR	4154	Immunology lab - Fall	MICR 2340-2141 and [CHEM 2325-2125 (can be concurrent)]
MICR	4353	Immunology - Fall	MICR 2340-2141 and [CHEM 2325-2125 (can be concurrent)]
MICR	4329	Epidemiology - Fall (once every 2 years)	Junior/Senior Status, MICR 2340-2141 and CHEM 1306-1106
MICR	4351	General Virology - Fall	BIOL 3320 or MICR 2340-2141
MICR	4355	Medical Mycology	MICR 2340-2141
ZOOL			
ZOOL	3464	Medical Parasitology	ZOOL 2406 or BIOL 1306-1108
ZOOL	4181	Vertebrate Physiology Methods – Spring	CHEM 1306-1106 and BIOL 1306-1108 or BIOL 2313-2113 or BIOL 2406 or BIOL 3314-3115
ZOOL	4384	Neurobiology	ZOOL 2406 or ZOOL 4380 or BIOL 1306-1108

*Only 6 hours total of Special Problems can be used toward degree. More than 3 hours of special problems cannot be taken in a single semester.

These courses are most appropriate for Ecology and Evolutionary Biology Majors

Course		Title	Pre-requisite
BIOL	2340	Introductory Neuroscience	BIOL 1305-1107 or BIOL 1306-1108 or PSYC 1301
BIOL	3117	Ecology Laboratory	BIOL 1306-1108
BIOL	3192	Professional Development Seminar	Majors in BIOL, CBCH, MICR
BIOL	3316	Ecology	BIOL 1306-1108
BIOL	3320	Genetics	BIOL 1305-1107 and BIOL 1306-1108
BIOL	3321	Evolution (Evolutionary Theory)	BIOL 3320
BIOL	3342	Plants and People	BIOL 1306-1108
BIOL	3360	Quantitative Methods in Ecology	BIOL 3316-3117
BIOL	3417	Plant Ecology	BIOL 3316-3117
BIOL	3427	Desert Ecology	BIOL 3316-3117
BIOL	4195	Advanced Methods in Biology	Co-requisite requirement - BIOL 4395
BIOL	4198*	Special Problems	None (requires instructor/departmental approval)
BIOL	4225	Field Biology	None
BIOL	4298*	Special Problems	None (requires instructor/departmental approval)
BIOL	4315	Population Genetics	BIOL 1305, 1306, 3320 or 3321, STAT 2480 or MATH 1312
BIOL	4324	Genetic, Env & Evol - Animal Behavior	BIOL 1306-1108
BIOL	4325	Field Biology	None Listed
BIOL	4326	Bioarcheology	None Listed
BIOL	4327	Animal Ecology	BIOL 3316-3117 and MATH 1411
BIOL	4370	History/Philosophy Biology	BIOL 1306-1108
BIOL	4388	Mammalian Physiology - Spring	BIOL 2313 or BIOL 3314-3115
BIOL	4389	Developmental Neurobiology	BIOL 3314-3115 can be concurrent – Dept. Approval
BIOL	4395	Topics in Biology (Can only be taken twice)	Varies with course topic
BIOL	4398*	Special Problems	None (requires instructor/departmental approval)
BIOL	4428	Environment Stressor in Ecosystems	CHEM 1306-1106 and BIOL 3316-3117
BIOL	4466	Ecosystem Ecology	BIOL 3316-3117
BOT	2410	General Botany	BIOL 1306-1108
BOT	3330	Comparative Plant Morphology	BIOL 1306-1108 or BOT 2410
BOT	3437	Plant Diversity & Systematics	BOT 2410
MICR	3328	Microorganisms in Ecosystems	CHEM 1306-1106; BIOL 1306-1108; MICR 2340-2141 recommended
ZOOL	2406	Vertebrate Zoology	BIOL 1305-1107, BIOL 1306-1108
ZOOL	2466	Invertebrate Zoology	BIOL 1305-1107, BIOL 1306-1108
ZOOL	3468	Entomology	BIOL 1306-1108
ZOOL	4155	Vertebrate Paleontology Techniques	ZOOL 4354
ZOOL	4157	Advanced Vertebrate Paleontology Tech	ZOOL 4356
ZOOL	4181	Vertebrate Physiology Methods	CHEM 1306-1106 and BIOL 1306-1108 or BIOL 2313-2113 or BIOL 2406 or BIOL 3314-3115
ZOOL	4354	Paleozoic and Mesozoic Vertebrate Paleontology	GEOL 1302-1102 or ZOOL 2406 or BIOL 1306-1108
ZOOL	4356	Cenozoic Vertebrate Paleontology	GEOL 1032 or ZOOL 2406 or BIOL 1306-1108
ZOOL	4476	Fish, Amphibians, and Reptiles	BIOL 1306-1108
ZOOL	4478	Birds and Mammals	BIOL 1306-1108

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