Lower Division Major Electives-Biomedical Sciences (Course # starts with 2)

Course		Title	Pre-requisite (Must be passed with a C or better)
BIOL	2311-2111	Human Anat/Physiology I & Lab	BIOL 1305 -1107 or ZOOL 2406
BIOL	2313-2113	Human Anat/Physiology II & Lab	BIOL 1305 -1107 or ZOOL 2406
BIOL	2340	Introductory Neuroscience	BIOL 1305-1107 or BIOL 1306-1108 or PSYC 1301
BOT	2410	General Botany	BIOL 1306-1108
ZOOL	2406	Vertebrate Zoology	BIOL 1305-1107 AND BIOL 1306-1108
ZOOL	2466	Invertebrate Zoology	BIOL 1305-1107 AND BIOL 1306-1108

Upper Division Major Electives-Biomedical Sciences (Course # starts with 3 or 4)

Course		Title	Pre-requisite (Must be passed with a C or better)
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	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	4300	Introduction to Bioinformatics	BIOL 1306
BIOL	4315	Population Genetics	BIOL 1305, 1306, 3320 OR 3321, AND STAT 2480 OR MATH 1312
BIOL	4319	G Protein-Coupled Receptor	BIOL 3314
BIOL	4320	Endocrinology	BIOL 1305-1107 AND CHEM 1306-1106, JR OR SR Standing
BIOL	4321	Developmental Biology	BIOL 4388 OR BIOL 3314
BIOL	4330	Cancer Biology	BIOL 1306 AND BIOL 3314 AND MICR 2340
BIOL	4350	Cellular Neuroscience	ZOOL 2406 OR ZOOL 4380 OR BIOL 1306-1108
BIOL	4370	History/Philosophy-Biology	BIOL 1306-1108
BIOL	4375	Neuroscience Capstone	Only NEUR Majors, SR, BIOL 2340 OR PSYC 2324 AND CHEM 2324-2124 AND PSYC 3201-3101
BIOL	4389	Developmental Neurobiology	BIOL 3314-3115
BIOL	4395	Topics in Biology **(Can only be taken twice)**	Varies with course topic, Department Approval
BIOL	4398*	Special Problems	None (requires instructor/departmental approval)
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	3343-3144	Pathogenic Microbiology & Lab - **Spring**	MICR 2340-2141 OR BIOL 3314
MICR	3345-3146	Microbial Physiology & Lab - **Fall**	MICR 2340-2141 AND CHEM 2324-2124
MICR	3349-3150	Prokaryotic Molecular Genetics & Lab -**Spring**	BIOL 3320 AND MICR 2340-2141, OR BIOL 3314-3115
MICR	4353-4154	Immunology & Lab - **Fall**	MICR 2340-2141 AND CHEM 2324-2124
MICR	4329	Epidemiology - **Fall** (once every 2 years)	JR or SR 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	3464	Medical Parasitology	ZOOL 2406 OR BIOL 1306-1108
ZOOL	4384	Cellular Neuroscience	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 (Must be passed with a C or better)
BIOL	3316-3117	Ecology & Lab	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 AND BOT 2410
BIOL	3360	Quantitative Methods in Ecology	BIOL 3316-3117 OR BIOL 3416
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	Department Approval, ZOOL 2466 recommended
BIOL	4298*	Special Problems	None (requires instructor/departmental approval)
BIOL	4300	Introduction to Bioinformatics	BIOL 1306
BIOL	4315	Population Genetics	BIOL 1305, 1306, 3320 OR 3321, AND STAT 2480 OR MATH 1312
BIOL	4324	Genetic, Env & Evol - Animal Behavior	BIOL 1306-1108
BIOL	4325	Field Biology	Instructor Approval
BIOL	4326	Bioarcheology	None Listed
BIOL	4327	Animal Ecology	BIOL 3316-3117 and MATH 1411, JR or SR Standing
BIOL	4351	Spatial Ecology	BIOL 1306-1108
BIOL	4360	Aquatic Ecology	BIOL 3316
BIOL	4370	History/Philosophy-Biology	BIOL 1306-1108
BIOL	4385-4185	Waterfowl Ecology & Evolution	BIOL 1306
BIOL	4388	Mammalian Physiology - **Spring**	BIOL 2313 OR BIOL 3314-3115
BIOL	4389	Developmental Neurobiology	BIOL 3314
BIOL	4395	Topics in Biology **(Can only be taken twice)**	Varies with course topic, Department Approval
BIOL	4398*	Special Problems	None (requires instructor/departmental approval)
BIOL	4428	Global Change Ecology	BIOL 3316-3117 OR ESCI 3204
BIOL	4466	Ecosystem Ecology	BIOL 3316-3117
BOT	3330	Comparative Plant Morphology	BIOL 1306-1108 OR BOT 2410
BOT	3437	Plant Diversity & Systematics	BOT 2410
ZOOL	3368-3169	Entomology	BIOL 1306-1108
ZOOL	4476	Fish, Amphibians, and Reptiles	BIOL 1306-1108
ZOOL	4478	Birds and Mammals	BIOL 1306-1108

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