

# INTEGRATIVE BIOLOGICAL SYSTEMS ELECTIVE LIST

Choose 9-12 hours, with at least one course from each of the following elective groups to include 2 labs:

Code	Title	Credit Hours
<b>Molecular Systems</b>		
BIOL 3813	Fundamentals of Microbiology	3
BIOL 4853	Physiology of Microorganisms	3
BIOL 3812	Fundamentals of Microbiology Laboratory	2
BIOL 4244	Animal Histology	4
BIOL 4533	Basic Immunology	3
BIOL 4113	Cellular Pathology	3
CHEM 3653	Introduction to Biochemistry	3
<b>Structure and Function</b>		
BIOL 4114	Principles of Plant Physiology	4
BIOL 3214	Comparative Vertebrate Anatomy	4
BIOL 3101	Principles of Physiology Lab	1
BIOL 4153	Endocrinology	3
BIOL 3833	Introduction to Neurobiology	3
BIOL 4863	Neural Control of Movement	3
BIOL 4970	Special Topics in Biology (Topic: Sensory Systems and Adaptation)	3
BIOL 3201	Animal Development Lab	1
BIOL 3123	Principles of Developmental Biology	3
BIOL 4833	Neurobiology	3
BIOL 3122	Cell Biology Laboratory	2
BIOL 3101	Principles of Physiology Lab	1
<b>Behavioral and Ecological Systems</b>		
BIOL 3563	Biological Conservation	3
BIOL 3403	Principles of Ecology	3
BIOL 3083	Animal Behavior	3
BIOL 4633	Ecology and Evolution of Infectious Diseases	3
BIOL 4523	Biogeography and Macroecology	3
BIOL 3163	Economic Botany	3
BIOL 4264	Morphology of Vascular Plants	4
BIOL 4073	General Entomology	3
BIOL 4034	Mammalogy	4
BIOL 4044	Ornithology	4
BIOL 4083	Herpetology	3
BIOL 4493	Ichthyology	3
BIOL 3214	Comparative Vertebrate Anatomy	4
BIOL 4463	Lake Ecology	3
BIOL 4483	Physiological Plant Ecology	3