

Undergraduate courses: Department of Biological Sciences

		Academic Year																							
#	Course Title	Cr.	2003-2004					2004-2005					MnTC Goal Area												
101	Environment and Society	3	F	S			F	S				Goal 10	General Education courses: Do not apply to a biology Major												
102	The Living World	3	F	S			F	S			Goal 3														
103	Human Biology	3	F	S	Su		F	S	Su		Goal 3														
104	Human Disorders	3	F	S			F	S			Currently doesn't apply														
106	Cultural Botany	3	F	S			F	S			Goal 8 and 10														
107	Biology of Women	3				Su																			
#	Course Title	Cr.									Prerequisites	Aquatic Biology	Ecology Emphasis	Wildlife Emphasis	General Biology	BioMed Science	Cell Biology	Biotech	Minor	BES	Biology Teaching	Medical Tech	Nuclear Medicine		
151	Cell Function and Inheritance	4	F	S	Su	F	S	Su			HS Biology	R	R	R	R	R	R	R	R	R	R	R	R	R	
152	Organismal Diversity	4	F	S	Su	F	S	Su			HS Biology	R	R	R	R	R	R	R	R	R	R	R	R	R	
202	Human Anatomy and Physiology I	4	F								HS Biology														
204	Human Anatomy and Physiology II	4		S				S			B202														
206	Introductory Microbiology	4	F	S	Su	F	S	Su			B151 & C140														
212	Plant Biology	4	F	S				S			B151 & B152														
214	General Zoology	4	F	S				S			B151 & B152														
262	Genetics	4	F	S	Su	F	S	Su			B151 & B152 & C210	R	R	R	A-R	R	R	R						R	
266	Medical Terminology	2	F	S				S							E	E									
290	Selected Topics in Biology	3-Jan	ar	Ar											E										
302	Biology for Elementary Teachers	2	F	S				S			Sci226														
312	General Ecology	4	F	S				S			B212 or B214 & C240	R	R	R	A-R										
314	Mammalogy	4						S			B214	E	E	E	R	E									
316	Entomology	4	F					S			B214	E	E	B	E										
318	Comparative Vertebrate Anatomy	3		S				S			B214	E	E	B	E										
322	Ichthyology	4		S				S			B214 & B312	R	E	B	E										
324	Ornithology	4		S				S			B214	E	E	R	E										
326	Limnology	4	F	S				S			B312	R	E	E	E	E									
334	Plant Taxonomy	2		S				S			B212	E	E	A	E										
360	Introduction to Cell Biology	4	F	S	Su	F	S	Su			B262&C240orC310,S319					B-R	R	R	R					R	
362	Microbiology	4	F	S	Su	F	S	Su			B360					B-R	R	R	R					R	
364	Histology	3		S				S			B151				E	E									
366	Human Anatomy	4	F	S				S			B151				E	E								R	
367	Introduction to Pharmacology	3	F					S							E	E								R	
368	Introduction to Pathophysiology	3		S				S																	
404	Clinical Cytology I 1-16	1 to 16	arranged					arranged																	
406	Clinical Cytology II 1-16	1 to 16	arranged					arranged																	
414-514	Paleobiology	3				F					B214		E	E	E	E									
418-518	Wetland Plant Communities	2	F		Su			Su			B151 & B152	E	E	A	E										
422-522	Terrestrial & Wetland Plant ID	4			Su			Su			B212	E	E	A	E										
424-524	Plant Ecology	4									B212, B312 & S319	E	E	A	E										
426-526	Plant Anatomy & Morphology	4		S							B212	E	E	A	E										
430-530	Phycology	4		S							B212 & B312	R	E	E	E	E									
434-534	Freshwater Invertebrate Zoology	4		S							B214 & B312	R	E	B	E	E									
436-536	Water Quality	4	F								B326 & S319	R	E	E	E	E									
438-538	Ecology of Fish Populations	4	F								B326 & S319	R	E	E	E	E									
440-540	Wildlife Management	4	F					F			B312	E	E	R	E										
442-542	Wildlife Populations	4	F					S			B312	E	E	R	E										
447	Ecological Physiology (capstone)	4		S							Senior Status	E	one of these	one of these	R	C-R									
448	Freshwater Ecology (capstone)	4						S			Senior Status	R	one of these	one of these	R	C-R									
449-549	Field Studies in Biology (Topical)	1 to 3	arranged					arranged																	
450	Readings in Biology (Topical)	1 to 3	arranged					arranged										E	E	E					
451	Undergraduate Research	1 to 3	arranged					arranged										E	E	E					
453-553	Seminar in Biology (Topical)	1 to 3	F	S			F	S									E	E	E						
444	Biology Internship	1 to 16	arranged					arranged										E	E	E				R(1Cr)	
455-555	Practicum (Topical)	1 to 3	arranged					arranged										E	E	E					
456-556	Biological Evolution	3		S							B262			B	E										
457-557	History and Philosophy of Biology	3					F				Junior/Senior status				E										
460-560	General Parasitology	4	F				F				B151 & B152				E	E									
462-562	Medical Microbiology	4	F				F				B362				E	E								R	
464-564	Hematology	3		S				S			B151				E	E								R	
466-566	Microscopy and Image Analysis	2									B151				E	E	A-R	A							
468-568	Cell and Tissue Culture Techniques	4						S			B362				E	E	A-R	R							
470-570	Molecular Plant Physiology	3		S							B262 & C480				E	E	B-R								
472-572	Virology	3		S				S			B362				E	E	B-R	R							
474-574	Neurobiology	3		S							B360				E	E	B-R								
476-576	Developmental Biology	4						S			B360				E	E	B-R	A							
477-577	Human Dissection	3			Su			Su			POI				E	E								R	
478-578	Human Physiology	4	F	S			F				B360 & B366				E	E	B-R	A						R	
480-580	Human Endocrinology & Reproduction	4						S			B360				E	E	B-R								
482-582	Advanced Protein Techniques	4	F	S			F	S			B360 & C311				E	E	A-R	R						R	
484-584	Advanced DNA Techniques	4		S				S			B362 & C480				E	E	A-R	R							
486-586	Immunology	4	F	S			F	S			B362				E	E	B-R	A						R	
492	Advanced Cell Biology (capstone)	3	F				F				Senior Status				C-R		R								
494	Pathophysiology (capstone)	3	F	S			F	S			Senior Status				C-R	R									
Biology electives for each program: contact appropriate biology advisor												12	28	7 to 8	20	24		8	16	24					

Note on Capstone courses and the University requirement for a Senior writing experience. The Capstone courses contain the required Senior writing experience as a component in the course. The writing requirement can not be waived or dropped for any student graduating with a BS in any area of Biology. The Senior writing experience may be fulfilled in other Senior Level courses. The Departments' writing requirements are available upon request.