

BIOLOGY MINOR FOR SECONDARY TEACHING

Updated August 2008

The minor in Biology for Secondary teachers consists of a minimum of 20 credits. Candidates for certification in this minor must pass the Michigan Test for Teacher Certification (MTTC) in Biology (Test #17). You must demonstrate your knowledge in the following categories:

1. Construct & Reflect on Scientific Knowledge 11 to 20 items
2. Cells and Cell Theory 1 to 10 items
3. Organization & Life Processes 11 to 20 items
4. Human Biology 11 to 20 items
5. Heredity and Evolution 11 to 20 items
6. Ecology and Ethology 11 to 20 items

You may access a study guide at the MTTC testing site; the courses below have been selected so that you will be well prepared for the test.

The following chart is intended to provide you a guide for scheduling your semesters and for keeping track of your grade point average.

CORE COURSES IN BIOLOGY (12 credits)

SUBJECT/ COURSE	TITLE	CREDIT HOURS	SEMESTER	GRADE
BIO 240	Cells and Genetics	4		
BIO 260	Organismal Biology	4		
BIO 280	Ecology and Evolutionary Biology	4		

ADVANCED COURSES IN BIOLOGY (Choose 8 additional credits selected from the following advanced courses in Biology.)

SUBJECT/ COURSE	TITLE	CREDIT HOURS	SEMESTER	GRADE
BIO 315	Topics in Ecology	4		
BIO 320	Plant Physiology	4		
BIO 332	Comparative Anatomy of Vertebrates	4		
BIO 340	Topics in Plant Biology	4		
BIO 343	Vascular Plant Systematics	4		
BIO 348	Topics in Cell Biology-Lecture	3		
BIO 349	Topics in Cell Biology-Lab	1		
BIO 355	Embryology	4		
BIO 356	Advanced Genetics (prereq: Chemistry 231)	3		
BIO 357	Advanced Genetics lab	1		
BIO 366	Molecular Biology	4		
BIO 370	Animal Behavior	4		
BIO 374	Biology of Insects	4		
BIO 380	Field Studies in Biology	1-4		
BIO 390	Independent Study of Biology	1-3		
BIO 395	Special Topics in Biology	4		
BIO 421	Evolutionary Biology	4		
BIO 422	Invertebrate Zoology	4		
BIO 432	Vertebrate Zoology	4		
BIO 442	Topics in Physiology	4		
BIO 490	Independent Research	2		
BIO 495	Advanced Topics in Biology	1-4		

_____ GPA in Biology courses (2.5 is required to qualify for student teaching)