

**Prerequisite Coursework for Admission to the
High School MAT Program
BIOLOGY Endorsement**

INFORMATION: A degree in biology or the equivalent of a biology major for a degree including at least 45 quarter hours with a laboratory and field course work in:

	<u>Has</u>	<u>Needs</u>
Plant Diversity	_____	_____
Animal Diversity	_____	_____
Genetics	_____	_____
Evolution	_____	_____
Ecology	_____	_____
Cell or Molecular Biology	_____	_____
Physiology	_____	_____
Recommended:		
Microbiology	_____	_____

28 quarter hours of other required science/math courses:

General Chemistry	_____	_____
Organic Chemistry	_____	_____
Physics or Geology	_____	_____

Mathematics requirement:

Mathematics through trigonometry and statistics	_____	_____
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Work in biology as a minor area will include the following certification prerequisites:

Plant Diversity	_____	_____
Animal Diversity	_____	_____
Genetics	_____	_____
Evolution	_____	_____
Ecology	_____	_____
Microbiology	_____	_____
Cell or Molecular Biology	_____	_____
Developmental Biology	_____	_____
Physiology	_____	_____

SPECIALTY AREA TESTS - BIOLOGY

Passing scores on the following PRAXIS II test will be required for admission to or completion of the MAT Program (see testing policy outlined on MAT Program flyer):

20235 Biology: Content Knowledge

For additional information about these requirements please contact:

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Examples of courses at SOU that fill the required biology subject areas:

1. Plant Diversity
 - Bi 332 Algae and Fungi
 - Bi 333 Plant Identification and Field Botany
 - Bi 432 Origins and Diversity of Land Plants
 - Bi 433 Plant Systematics
 - Bi 434 Plant Anatomy

2. Animal Diversity
 - Bi 415 Mammalogy
 - Bi 450 Fishery Biology
 - Bi 461, 462 Invertebrate Biology
 - Bi 466 Entomology
 - Bi 470 Herpetology
 - Bi 471 Ornithology
 - Bi 480 Animal Behavior

3. Genetics
 - Bi 341 Genetics

4. Evolution
 - Bi 446 Evolution

5. Ecology
 - Bi 340 Introductory Ecology
 - Bi 453 Community and Population Ecology
 - Bi 454 Plant Ecology
 - Bi 475 Aquatic Ecology

6. Microbiology
 - Bi 214 Elementary Microbiology
 - Bi 351 Microbiology

7. Cell of Molecular Biology
 - Bi 342 Cell Biology
 - Bi 425 Molecular Biology

8. Physiology
 - Bi 231, 232, 233 Human Anatomy and Physiology
 - Bi 314 Comparative Animal Physiology
 - Bi 331 Plant Physiology
 - Bi 413 Physiological Ecology of Animals
 - Bi 414 Advanced Animal Physiology
 - Bi 427 Comparative Vertebrate Anatomy