

Admission Requirements for the Southern Oregon University Middle/High School MAT & Environmental Education Programs BIOLOGY Endorsement

This form is used by the Admissions Committee to evaluate your application for dual enrollment in the MAT and MSEE programs with a Biology Endorsement, to determine if requirements have been met. You are welcome to use it to informally assess your application.

I. GENERAL ADMISSIONS REQUIREMENTS FOR ALL MIDDLE/HIGH AREAS

A. LETTERS OF RECOMMENDATION BASED ON EXPERIENCES WORKING WITH YOUTH

Applicants must submit two letters of recommendation documenting separate successful experiences working with groups of children or adolescents. **Experiences in public schools are preferred, and experiences working with students at the Middle and High school ages are recommended for this level.**

B. BACHELOR'S DEGREE

Applicants must have a Bachelor's degree from a regionally accredited college or university and meet the appropriate pre-requisites listed below.

C. GRADE POINT AVERAGE

Applicants should have a cumulative GPA of 3.0 in the most recent 90 quarters or 60 semester hours of undergraduate work, and a 3.0 GPA for courses completed in the selected endorsement area. Applicants who have a GPA lower than 3.0 may apply for post-baccalaureate admission.

II. REQUIREMENTS SPECIFIC TO THE *BIOLOGY* ENDORSEMENT

At least 45 quarter hours (30 semester hours) with a laboratory component and field work in:

	<u>Have</u>	<u>Need</u>
Plant Diversity	_____	_____
Animal Diversity	_____	_____
Genetics	_____	_____
Evolution	_____	_____
Ecology	_____	_____
Cell or Molecular Biology	_____	_____
Physiology	_____	_____
Microbiology (recommended)	_____	_____

28 quarter hours (19 semester hours) of other required science/math courses:

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

One required mathematics course:

Trigonometry and Statistics	_____	_____
-----------------------------	-------	-------

DEGREE MINOR

A minor in Biology as a **minor area** may include the following certification prerequisites:

	<u>Have</u>	<u>Need</u>
Plant Diversity	_____	_____
Animal Diversity	_____	_____
Genetics	_____	_____
Evolution	_____	_____
Ecology	_____	_____
Cell or Molecular Biology	_____	_____
Physiology	_____	_____
Microbiology (recommended)	_____	_____

Examples of courses at Southern Oregon University that fill the required biology subject areas:

- I. Plant Diversity
 - BI 433 Plant Systematics
 - BI 434 Plant Form and Function
 - BI 444 Vascular Plant Identification and Field Biology
- II. Animal Diversity
 - BI 318 Invertebrate Natural History
 - BI 415 Mammalogy
 - BI 450 Fish and Fisheries
 - BI 466 Biology of Insects
 - BI 470 Herpetology
 - BI 471 Ornithology
 - BI 480 Animal Behavior
- III. Genetics
 - BI 341 Genetics
- IV. Evolution
 - BI 446 Evolution
- V. Ecology
 - BI 340 Introductory Ecology
 - BI 454 Plant Ecology
 - BI 475 Aquatic Ecology
- VI. Microbiology
 - BI 214 Elementary Microbiology
 - BI 351 Microbiology
- VII. Cell of Molecular Biology
 - BI 342 Cell Biology
 - BI 425 Molecular Biology
- VIII. 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 434 Plant Form and Function

TESTING

Basic Skills Tests: Applicants for dual enrollment in the MAT and Environmental Education programs must have taken the GREs. These can waive the MAT requirement of the Basic Skills test (EAS, PPST, or CBEST). In order to qualify, the GRE scores must be at an acceptable level.

Subject Knowledge Tests: Beginning September 1, 2010, candidates for Oregon teacher licensure at the Middle/High School level must pass the Pearson National Evaluation Series (NES) test in Biology. This test has replaced the previously required PRAXIS II Subject Knowledge Test. Information about the NES tests, including registration, the location of test centers, passing scores, and sample test questions, can be found online at http://www.orela.nesinc.com/pageview.aspx?f=GEN_Tests.html.

NOTE: If a person passed the required PRAXIS II Subject Knowledge Tests prior to September 1, 2010, these scores can be used to satisfy the Subject Knowledge Testing requirements for the Oregon teacher licensure.

CONTACTS

For questions about general MAT program requirement, please contact:

Anita Caster
School of Education
Southern Oregon University
1250 Siskiyou Blvd.
Ashland, OR 97520
(541) 552-6996
caster@sou.edu

For questions about Biology Endorsement requirements, please contact:

Stewart Janes – SC 219
Southern Oregon University
1250 Siskiyou Blvd.
Ashland, OR 97520
(541) 552-6797
janes@sou.edu