



2005 – 06 PETITION/PROGRAM SHEET

Degree: Associate of Science

Emphasis: Biology

www.mesastate.edu/main/academics/snsmlisting.htm#asbio

About This Emphasis . . .

The Associate of Science (A.S.) degree is designed for students who intend to continue their education and obtain a baccalaureate degree. The A.S. is the appropriate choice for students who will take upper division coursework in mathematics, biological sciences, and physical sciences. The degree program includes the Colorado Statewide General Education Core and meets the lower division general education requirements at most public institutions in Colorado. A number of emphases are available within the A.S. degree. Students choosing one of these emphases will take courses in a discipline in addition to the general education core.

In the Biology Program students choose courses from four areas: cell, developmental, and molecular biology; anatomical and physiological biology; organismal biology; and ecology, evolution, and systematics. Graduates of our program with an AS or Minor degree may then seek to continue their education to pursue careers in teaching, pest control, plant pathology, wildlife biology, cell biology and biotechnology, among just a few of the career options, or may use their AS or Minor to support careers in other disciplines.

POLICIES:

- 1. It is your responsibility to determine whether you have met the requirements for your degree. Please see your MSC Catalog for a complete list of graduation requirements.
2. You must go to the Registrar's Office and fill out the "Intent to Graduate" form at the beginning of the semester prior to graduating.
3. This program sheet must be submitted with your graduation planning sheet to your advisor during the semester prior to graduating, no later than September 15 for Spring graduates, February 15 for Fall graduates.
4. Your advisor will sign and forward the Program Sheet, Intent to Graduate Form, and Graduation Planning Sheet to the Department Head for signature.
5. Finally, the Department Head or the department administrative assistant will take the signed forms to the Registrar's Office. (Students cannot handle the forms once the advisor signs.)
6. If your petition for graduation is denied, it will be your responsibility to reapply for graduation in a subsequent semester. Your "Intent to Graduate" does not automatically move to a later graduation date.
7. NOTE: The semester before graduation, you may be required to take a Major Field Achievement Test (Exit Exam).

NAME: _____ STUDENT ID # _____

LOCAL ADDRESS AND PHONE NUMBER: _____

_____ () _____

I, (Signature) _____, hereby certify that I have completed (or will complete) all the courses listed on the Program Sheet. I further certify that the grade listed for those courses is the final course grade received except for the courses in which I am currently enrolled and the courses which I complete next semester. I have indicated the semester in which I will complete these courses.

Signature of Advisor _____ Date _____ 20__

Signature of Department Head _____ Date _____ 20__

Signature of Registrar _____ Date _____ 20__

GENERAL EDUCATION REQUIREMENTS (33 Semester Hours)

Course No. Credit Grade Term Year Trns/Subs

English and Speech: ENGL 111 and 112, SPCH 102 (9 semester hours, must earn a grade of "C" or above in ENGL 111 and 112)

ENGL	<u>111</u>	<u>3</u>	___	___	___	___
ENGL	<u>112</u>	<u>3</u>	___	___	___	___
SPCH	<u>102</u>	<u>3</u>	___	___	___	___

Physical Sciences/Math/Statistics (12 semester hours)

Science (minimum 8 semester hours; choose from CHEM 131/131L, 132/132L; GEOL 111/111L, 112/112L; PHYS 111/111L, 112/112L)

___	___	___	___	___	___	___
___	___	___	___	___	___	___
___	___	___	___	___	___	___
___	___	___	___	___	___	___

Math/Statistics (minimum 4 semester hours, Math 113 or higher, must earn a "C" or above)

___	___	___	___	___	___	___
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*MATH 151 may count as the general education mathematics requirement. This will leave a balance of 9 hours of free general electives.

Course No. Credit Grade Term Year Trns/Subs

Social and Behavioral Sciences: (6 Semester Hours)
(Minimum of 2 different disciplines)

___	___	___	___	___	___	___
___	___	___	___	___	___	___
___	___	___	___	___	___	___

Humanities (6 semester hours)

(Minimum of 2 different disciplines)

___	___	___	___	___	___	___
___	___	___	___	___	___	___
___	___	___	___	___	___	___

Human Performance and Wellness (2 semester hours) HPWA 100 and one HPWE activity

Course No. Credit Grade Term Year Trns/Subs

HPWA	<u>100</u>	<u>1</u>	___	___	___	___
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Course No. Credit Grade Term Year Trns/Subs

HPWE	___	<u>1</u>	___	___	___	___
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Biology Emphasis Core Requirements (25 Semester Hours) Must earn a "C" or above in each course.

Course No. Credit Grade Term Year Trns/Subs

BIOL	<u>105</u>	<u>4</u>	___	___	___	___
BIOL	<u>105L</u>	<u>1</u>	___	___	___	___
BIOL	<u>106</u>	<u>3</u>	___	___	___	___
BIOL	<u>106L</u>	<u>2</u>	___	___	___	___

Course No. Credit Grade Term Year Trns/Subs

BIOL	<u>107</u>	<u>3</u>	___	___	___	___
BIOL	<u>107L</u>	<u>2</u>	___	___	___	___

Required Biology Specialization Courses (10 Semester Hours) To be selected in consultation with student's advisor

Course No. Credit Grade Term Year Trns/Subs

___	___	___	___	___	___	___
___	___	___	___	___	___	___
___	___	___	___	___	___	___
___	___	___	___	___	___	___

Course No. Credit Grade Term Year Trns/Subs

___	___	___	___	___	___	___
___	___	___	___	___	___	___
___	___	___	___	___	___	___
___	___	___	___	___	___	___

- 60 semester hours are required for the Associate of Science degree. Must meet the academic residency requirements.
- A cumulative grade point average of 2.0 or higher must be maintained for all courses taken.
- A grade of "C" or higher must be earned in all courses within the Biology Emphasis.
- A grade of "C" or higher must be earned in all general education courses in order to be accepted for the transfer under the Core Transfer Agreements.
- No double counting is allowed between general education requirements and major requirements.
- It is recommended that students work closely with a faculty advisor when selecting appropriate courses and scheduling classes.

GENERAL EDUCATION REQUIREMENTS (minimum 33 Semester Hours)

English and Speech – 9 Semester Hours
 ENGL 111 and ENGL 112 or ENGL 129 (*by permission*)
 And SPCH 102 (required)

See current Mesa State College Catalog for list of courses that fulfill the requirements below.

Mathematics and Science – minimum 12 Semester Hours
 Minimum 4 semester hours in Math and minimum 8 semester hours in Science. Both lecture and Lab must be taken in all courses having both.

Humanities – 6 semester hours. Minimum of two different disciplines required.

Social and Behavioral Sciences – 6 semester hours. Minimum of two different disciplines required.

OTHER REQUIREMENTS (2 Semester Hours)

Human Performance and Wellness – 2 Semester Hours
 Each student must take HPWA 100 together with one HPWE Activity course. See current catalog for listing.

Biology Emphasis Requirements (25 Semester Hours) A “C” or higher is required for all classes in the Biology emphasis

Required Core Courses
 BIOL 105 Attributes of Living Systems
 BIOL 105L Attributes of Living Systems Laboratory
 BIOL 106 Principles of Animal Biology
 BIOL 106L Principles of Animal Biology Laboratory
 BIOL 107 Principles of Plant Biology
 BIOL 107L Principles of Plant Biology Laboratory
 Required Biology Specialization Courses
 10 semester hours selected in consultation with student’s advisor

Students are required to participate in exit examinations or other programs deemed necessary to comply with the college accountability requirement. All degree requirements must be completed as described above. Any exceptions or substitutions must be recommended in advance by the faculty advisor and approved by the Department Head.

SUGGESTED COURSE SEQUENCING FOR THE ASSOCIATE OF SCIENCE WITH AN EMPHASIS IN BIOLOGY**FRESHMAN YEAR**

Fall Semester		Hours	Spring Semester		Hours
BIOL 105	Attributes of Living Systems	4	BIOL 106	Principles of Animal Biology	3
BIOL 105L	Attributes of Living Systems Lab	1	BIOL 106L	Principles of Animal Biology Lab	2
ENGL 111	English Composition	3	ENGL 112	English Composition	3
MATH 113	College Algebra (or higher)	4	General Education Natural Science		4
SPCH 102	Speechmaking	3	General Education Social/Behavioral Science		<u>3</u>
HPWA 100	Health and Wellness	<u>1</u>			15
		16			

SOPHOMORE YEAR

Fall Semester		Hours	Spring Semester		Hours
BIOL 107	Principles of Plant Biology	3	Biology Specialization Selection		4
BIOL 107L	Principles of Plant Biology Lab	2	Biology Specialization Selection		3
Biology Specialization Selection		3	General Education Humanities		3
General Education Humanities		3	General Education Social/Behavioral Science		3
General Education Natural Science		<u>4</u>	HPWE Activity		<u>1</u>
		15			14