BIOLOGY (SECONDARY EDUCATION) - BACHELOR OF ARTS

The Bachelor of Arts curriculum is intended for students who desire a broad education with emphasis in biology in a program chosen by the student in consultation with an academic advisor. The Bachelor of Arts is recommended for those who plan to teach at the Secondary General Science Education (Grades 6-12) level or to use a background in life science in business or other endeavors.

Requirements

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Students must complete all University degree requirements, which include: General Education requirements, Viewing a Wider World requirements, and elective credits to total at least 120 credits with 48 credits in courses numbered 300 or above. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Title

Prefix	Title	Credits
General Education		
Area I: Communications	3	10
English Composition	ı - Level 1 ¹	
English Composition	ı - Level 2 ¹	
Oral Communication	n ¹	
Area II: Mathematics ²		3-4
MATH 1430G	Applications of Calculus I	
or MATH 1511G	Calculus and Analytic Geometry I	
Area III/IV: Laboratory S	Sciences and Social/Behavioral Sciences	11
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors	
Area IV: Social/Beh	avioral Sciences course (3 credits) 1	
Area V: Humanities ¹		3
Area VI: Creative and Fi	ne Arts ¹	3
General Education Elec	tive	
BIOL 2610G & BIOL 2610L	Principles of Biology: Biodiversity, Ecology, and Evolution and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory (Departmental Requirement)	4
Viewing a Wider World	13	3
Departmental Require	ments	
BIOL 2110G & BIOL 2110L	Principles of Biology: Cellular and Molecular Biology and Principles of Biology: Cellular and Molecular Biology Laboratory	4
BIOL 301	Principles of Ecology	3
BIOL 305	Principles of Genetics	3
BIOL 377	Cell Biology	3
BIOL 467	Evolution	3
Biology Electives		12
Select sufficient up upper-division cred	per-division biology electives to bring total its to 24. ⁴	

Total Credits		120
Selective suffici least 48 upper-d	ent electives to bring the total to 120, including at livision credits.	
Electives, to bring the total credits to 120 ⁷		11-21
	credits required to satisfy this requirement will vary the option a student choses.	
Second Language Requirement (See below)		0-8
READ 4330	Content Area Literacy ⁵	3
SPED 3105	Introduction to Special Education in a Diverse Society	3
EDUC 4821	Middle and High School Student Teaching Seminar ⁶	3
EDUC 4820	Secondary Student Teaching ⁶	9
EDUC 4410	Teaching Science at the Middle and High School Level ⁵	3
EDUC 3997	Secondary Field Experience	3
EDUC 3120	Multicultural Education	3
Select 3-4 credits fro computer science, g	om one of the following departments: astronomy, eology or physics	3-4
CHEM 2120L	Integrated Organic Chemistry and Biochemistry Lab	1
	Biochemistry	

Integrated Organic Chemistry and

- See the General Education (https://catalogs.nmsu.edu/nmsu/general-education-viewing-wider-world/) section of the catalog for a full list of courses.
- Either MATH 1430G Applications of Calculus I or MATH 1511G Calculus and Analytic Geometry I is required for the degree but students may need prerequisite courses before entering one of these.
- See the Viewing a Wider World (https://catalogs.nmsu.edu/nmsu/general-education-viewing-wider-world/#viewingawiderworldtext) section of the catalog for a full list of courses.
- Choice of Biology electives should be done in consultation with an advisor.
- ⁵ Requires TEP admittance.

CHEM 2120

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- ⁶ Requires STEP admittance.
- Elective credit may vary depending on prerequisites, dual credit, AP credit, double majors, and/or minor coursework. The elective credit in the requirement list is the amount needed to bring the total to 120 credits and may vary based on the degree. Students may need to complete more or less courses on a case-by-case basis and each student should discuss this with their advisor.

Second Language Requirement

For the Bachelor of Arts in Biology there is a one year second language requirement, the options to complete this requirement are listed below. The number of credits that a student needs to take may vary depending on what level they come in with. Please speak with an advisor for more information as to which courses you will need to take to fulfill the second language requirement for this degree.

Option 1:

Prefix	Title	Credits	
Complete one of the following sequences:			
FREN 1110	French I	4-8	
& FREN 1120	and French II		
GRMN 1110	German I	4-8	
& GRMN 1120	and German II		

Non-Departmental Requirements (in addition to Gen.Ed/VWW)

JAPN 1110 & JAPN 1120	Japanese I and Japanese II	4-8
SPAN 1110 & SPAN 1120	Spanish I and Spanish II	4-8
PORT 1110 & PORT 1120	Portuguese I and Portuguese II	3-6
For Heritage Speakers:		
SPAN 1210 & SPAN 1220 or SPAN 2210	Elementary Spanish for Heritage Learners I and Spanish for Heritage Learners II Spanish for Heritage Learners III	3-6

Option 2:

option 2.			
Prefix	Title	Credits	
Complete the following sequence for American Sign Language (with a C- or better):			
SIGN 1110	American Sign Language I	3	

3

American Sign Language II

SIGN 1120 Option 3:

Pre	fix	Title	Credits
Challenge the 1120 level for the following courses:			
FRI	EN 1120	French II	4
	or GRMN 1120	German II	
	or JAPN 1120	Japanese II	
	or SPAN 1120	Spanish II	
	0.0		

Challenge the 1120/1220/2210 level for the following courses:

PORT 1120	Portuguese II
or SPAN 1220	Spanish for Heritage Learners II
or SPAN 2210	Spanish for Heritage Learners III

Option 4:

Pass a three-credit, upper-division course (numbered 300 or above) taught in a second language by the department of Languages and Linguistics.

Option 5:

Obtain college certification of completion of three years of a second language at the high school level with a grade of C- or higher in the second-year level.

Option 6:

By obtaining certification of a working knowledge of a Native American language from the American Indian program director.

Option 7:

By obtaining, from the head of the Department of Languages and Linguistics, certification of a working knowledge of a second language if such language is not taught at NMSU.

Option 8:

In the case of a foreign student who is required to take the TOEFL exam admission, the dean will automatically waive the second language requirement.