BIOLOGY - 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 primary levels or to use a background in life science in business or other endeavors.

Requirements

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.

General Education 10 Area 1: Communications 10 English Composition - Level 2 ¹ 10 Oral Communication 1 Area II: Mathematics ² 3-4 MATH 1430G Applications of Calculus 1 or MATH 1511G Calculus and Analytic Geometry 1 Area III./IV: Laboratory Sciences and Social/Behavioral Sciences 11 CHEM 1215G General Chemistry 1 Lecture and Laboratory for STEM Majors CHEM 1225G General Chemistry II Lecture and Laboratory for STEM Majors Area IV: Social/Behavioral Sciences course (3 credits) ¹ 3 Area V: Social/Behavioral Sciences course (3 credits) ¹ 3 Area V: Creative and Fine Arts ¹ 3 General Education Elective 3 BIOL 2610G Principles of Biology. Biodiversity, Ecology, and Evolution and Principles of Biology. Biodiversity, Ecology, and Evolution Laboratory (Departmental Requirement) Viewing a Wider World 5 Departmental Requirements 4 BIOL 2110G Principles of Biology. Cellular and Molecular A Molecular Biology Laboratory BIOL 301 Principles of Ecology 3 BIOL 305 Principles of Genetics 3 BIOL 305	Prefix	Title	Credits
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BIOL 467 Evolution 3	BIOL 305	Principles of Genetics	3
	BIOL 377	Cell Biology	3
Biology Electives 12	BIOL 467	Evolution	3
	Biology Electives		12
Select sufficient upper-division biology electives to bring total upper-division credits to 24. ⁴			
Non-Departmental Requirements (in addition to Gen.Ed/VWW)			
Organic Chemistry Requirement 4-8	Organic Chemistry Requirement		4-8

CHEM 2120 & 2120L	Integrated Organic Chemistry and Biochemistry and Integrated Organic Chemistry and Biochemistry Lab	4
OR		
CHEM 313 & CHEM 314 & CHEM 315	Organic Chemistry I and Organic Chemistry II and Organic Chemistry Laboratory	8
Select 3-4 credits from one of the following departments: astronomy, computer science, geology or physics		3-4
Second Language Requirement (See below)		0-8
The number of credits required to satisfy this requirement will vary depending on the option a student choses.		
Electives, to bring the total credits to 120 5		19-33
Selective sufficient electives to bring the total to 120, including at least 48 upper-division credits.		
Total Credits		120
¹ See the General E	Education (https://catalogs.nmsu.edu/nmsu	u/general-

See the General Education (https://catalogs.nmsu.edu/nmsu/generaleducation-viewing-wider-world/) section of the catalog for a full list of courses.

- ² 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.
- ³ 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.
- ⁴ Choice of Biology electives should be done in consultation with an advisor.
- ⁵ 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	ne following sequences:	
FREN 1110 & FREN 1120	French I and French II	4-8
GRMN 1110 & GRMN 1120	German I and German II	4-8
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 Speak	ers:	

For Heritage Speakers

SPAN 1210	Elementary Spanish for Heritage Learners I	3-6
& SPAN 1220	and Spanish for Heritage Learners II	
or SPAN 2210	Spanish for Heritage Learners III	
Option 2:		
Prefix	Title	Credits
Complete the follow C- or better):	ing sequence for American Sign Language (with a	
SIGN 1110	American Sign Language I	3
SIGN 1120	American Sign Language II	3
Option 3:		
Prefix	Title	Credits
Challenge the 1120 l	evel for the following courses:	
FREN 1120	French II	4
or PORT 1120	Portuguese II	
or SPAN 1120	Spanish 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.

A Suggested Plan of Study for Students

This roadmap assumes student placement in MATH 1220G College Algebra and ENGL 1110G Composition I. The contents and order of this roadmap may vary depending on initial student placement in mathematics and English. It is only a suggested plan of study for students and is not intended as a contract. Course availability may vary from fall to spring semester and may be subject to modification or change.

First Year		
Semester 1		Credits
MATH 1220G	College Algebra ¹	3
ENGL 1110G	Composition I ¹	4
BIOL 2610G & BIOL 2610L	Principles of Biology: Biodiversity, Ecology, and Evolution and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory ¹	4
Area IV: Social and Behavioral Science Course ²		

	Credits	17
Semester 2		
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors ¹	Z
CHEM 1121	General Supplemental Instruction I	1
BIOL 2110G & BIOL 2110L	2110G Principles of Biology: Cellular and Molecular	
Choose from one	of the following:	3-4
MATH 1430G	Applications of Calculus I ¹	
MATH 1511G	Calculus and Analytic Geometry I	
Choose from one Education Course	of the following Area I Oral Communication General s:	3
COMM 1115G	Introduction to Communication	
HNRS 2175G	Introduction to Communication Honors	
ACOM 1130G	Effective Leadership and Communication in Agriculture	
	Credits	15-16
Second Year		
Semester 1		
ENGL 2210G	Professional and Technical Communication Honors	3
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors ¹	2
CHEM 1122	General Supplemental Instruction II	
BIOL 305	Principles of Genetics ¹	3
Elective Course ³		4
	Credits	15
Semester 2	1	
BIOL 377	Cell Biology	3
	cond Language Series	3-4
	ology Elective Course ¹ and Fine Arts Course ²	3
Area VI: Creative a		3
Area V. Humanitie	Credits	15-16
Third Year	Creans	15-10
Semester 1		
Semester 1 CHEM 313	Organic Chemistry I ¹	:
Semester 1 CHEM 313 CHEM 303	Organic Chemistry I ¹ Organic Supplemental Instruction I	
CHEM 313 CHEM 303	Organic Supplemental Instruction I	1
CHEM 313 CHEM 303 Upper-division Bio	Organic Supplemental Instruction I ology Elective Course ¹	1
CHEM 313 CHEM 303 Upper-division Bic Next Second Lan <u>c</u>	Organic Supplemental Instruction I	3-4
CHEM 313 CHEM 303 Upper-division Bic Next Second Lan <u>c</u>	Organic Supplemental Instruction I plogy Elective Course ¹ guage Course in Series ¹	1 3-4 3-2
CHEM 313 CHEM 303 Upper-division Bic Next Second Lang VWW: Viewing a V	Organic Supplemental Instruction I plogy Elective Course ¹ guage Course in Series ¹	1 3-4 2 2
CHEM 313 CHEM 303 Upper-division Bic Next Second Lang VWW: Viewing a V	Organic Supplemental Instruction I blogy Elective Course ¹ guage Course in Series ¹ Vider World Course ⁴	3-4 3-2
CHEM 313 CHEM 303 Upper-division Bio Next Second Lang VWW: Viewing a V Elective Course ³	Organic Supplemental Instruction I blogy Elective Course ¹ guage Course in Series ¹ Vider World Course ⁴	1 3-4 2 15-16
CHEM 313 CHEM 303 Upper-division Bio Next Second Lang VWW: Viewing a W Elective Course ³ Semester 2 CHEM 314 CHEM 315	Organic Supplemental Instruction I plogy Elective Course ¹ guage Course in Series ¹ Vider World Course ⁴ Credits Organic Chemistry II Organic Chemistry Laboratory	1 3-2 2 15-16
CHEM 313 CHEM 303 Upper-division Bio Next Second Lang VWW: Viewing a W Elective Course ³ Semester 2 CHEM 314 CHEM 315	Organic Supplemental Instruction I plogy Elective Course ¹ guage Course in Series ¹ Vider World Course ⁴ Credits Organic Chemistry II	3-4 3-4 2 15-1(2 2 2 2 2
CHEM 313 CHEM 303 Upper-division Bio Next Second Lang VWW: Viewing a W Elective Course ³ Semester 2 CHEM 314 CHEM 315 Upper-division Bio Science Elective C	Organic Supplemental Instruction I plogy Elective Course ¹ guage Course in Series ¹ Vider World Course ⁴ Credits Organic Chemistry II Organic Chemistry Laboratory	1 3-2 2 15-16
CHEM 313 CHEM 303 Upper-division Bio Next Second Lang VWW: Viewing a W Elective Course ³ Semester 2 CHEM 314 CHEM 315 Upper-division Bio	Organic Supplemental Instruction I plogy Elective Course ¹ guage Course in Series ¹ Vider World Course ⁴ Credits Organic Chemistry II Organic Chemistry Laboratory plogy Elective Course ¹	1 3-2 2 15-16 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
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CHEM 313 CHEM 303 Upper-division Bio Next Second Lang VWW: Viewing a W Elective Course ³ Semester 2 CHEM 314 CHEM 315 Upper-division Bio Science Elective C	Organic Supplemental Instruction I plogy Elective Course ¹ guage Course in Series ¹ Vider World Course ⁴ Credits Organic Chemistry II Organic Chemistry Laboratory plogy Elective Course ¹ Course with prefix ASTR, C S, GEOL or PHYS	1 3-4 2 15-16 3 4 2 3 4 2 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 3 4 3 3 4 3 3 4 3 3 3 4 3 3 4 3
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Upper-division Elective Course ³		3
Upper-division Elective Course ³		3
	Credits	15
Semester 2		
BIOL 467	Evolution	3
Upper-division Elective Course ¹		3
Elective Course ³	3	4
Elective Course ³	3	3
	Credits	13
	Total Credits	120-123

¹ These courses have prerequisites and it is the students responsibility for checking and fulfilling all course prerequisites listed for these courses.

- ² See the General Education (https://catalogs.nmsu.edu/nmsu/generaleducation-viewing-wider-world/) section of the catalog for a full list of courses.
- ³ 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.
- ⁴ 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.