



Undergraduate Degree Map for Completion in Four Years

College:	College of Science, Engineering & Technology <input type="button" value="v"/>
Department:	Biological Sciences <input type="button" value="v"/>
Name of Program:	LIFE SCIENCE EDUCATION <input type="button" value="v"/>
Degree Designation:	BS <input type="button" value="v"/>
Emphasis/Concentration:	<input type="text"/> <input type="button" value="v"/>
Option:	<input type="text"/>
Version:	<input type="text"/> <input type="button" value="v"/>
Version Explanation:	<input type="text"/>
Type of Program:	Broad Major <input type="button" value="v"/>
Minor Required:	No <input type="button" value="v"/>
Specific Minor (if required):	<input type="text"/>

Program Description:

The State of Minnesota grants science teacher licensure for grades 5-8 general science, 9-12 Chemistry, 9-12 Earth Science, 9-12 Life Science, and 9-12 Physics. Students earning a degree from Minnesota State Mankato will qualify for two licenses (1) 5-8 general science and (2) 9-12 specialty.

Admission Requirements:

32 earned semester hours including BIOL 105, BIOL 106, BIOL 211, and CHEM 201 with a grade of "C" or better; completed General Education Goal Area 4 (Mathematics); completed General Education Goal Area 1, Part A (English Composition); and a minimum cumulative GPA of 2.2, with a cumulative GPA in Biology courses of 2.0.

Advising:

You are expected to meet with your advisor on a regular basis to ensure courses are taken in an order that will lead to successful completion of the degree.

Each student must meet with an advisor each semester. Following the meeting the student will be given an access code which allows the student to register for classes.

A complete listing of program faculty, policies, and course descriptions is available in the undergraduate bulletin.

<i>Designator:</i>	<i>Course:</i>	<i>Course Name:</i>	<i>Credits:</i>	<i>Milestones:</i>
				Overall GPA \geq 2.0 Course Completion Rate \geq 67% Completion of \geq 15 credit hours
BIOL	105	General Biology I	4	C or better is required
---	---	Choose one course	---	C or better is required
MATH	113	Trigonometry	3	
MATH	115	Precalculus Mathematics	4	
ENG	101	Compstion	4	C or better is required
---	---	General Education Course	---	
---	---	Recommended	---	
SOC	101	Introduction to Sociology OR	3	
PHIL	120W	Introduction to Ethics	3	
		General Education Course	0-1	

Insert item

Term 1 Notes:

TERM 2 - SPRING

<i>Designator:</i>	<i>Course:</i>	<i>Course Name:</i>	<i>Credits:</i>	<i>Milestones:</i>
				Overall GPA \geq 2.0 Course Completion Rate \geq 67% Completion of \geq 30 credit hours Advance to Sophomore status
BIOL	106	General Biology II	4	C or better is required
CHEM	201	General Chemistry I	5	C or better is required
AST	101	Introduction to Astronomy	3	C or better is required
---	---	General Education Course	---	
---	---	Recommended	---	
SOC	101	Introduction to Sociology	3	
PHIL	120W	Introduction to Ethics	3	

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Term 2 Notes:

It is advisable to select courses in the teaching program that also satisfy the General Education Curriculum requirements.

TERM 3 - FALL

<i>Designator:</i>	<i>Course:</i>	<i>Course Name:</i>	<i>Credits:</i>	<i>Milestones:</i>
				Overall GPA \geq 2.0 Course Completion Rate \geq 67%
GEOL	121	Physical Geology	4	C or better is required
BIOL	215	General Ecology	4	C or better is required
BIOL	211	Genetics	4	C or better is required
		General Education Course	3	

Insert item

Term 3 Notes:

You may apply to the major at the end of this semester if you have completed 32 credits, and have a minimum cumulative GPA of 2.2, and a minimum biology GPA of 2.0.

TERM 4 - SPRING

<i>Designator:</i>	<i>Course:</i>	<i>Course Name:</i>	<i>Credits:</i>	<i>Milestones:</i>
				Overall GPA \geq 2.0 Course Completion Rate \geq 67% Completion of \geq 60 credit hours Advance to Junior status
BIOL	270	General Microbiology	4	C or better is required
BIOL	301	Evolution	2	C or better is required
BIOL	220	Human Anatomy	4	C or better is required
HLTH	240	Drug Education	3	C or better is required
		General Education Course	3	

Insert item

Term 4 Notes:

TERM 5 - FALL

<i>Designator:</i>	<i>Course:</i>	<i>Course Name:</i>	<i>Credits:</i>	<i>Milestones:</i>
				Overall GPA \geq 2.0 Course Completion Rate \geq 67% Apply for Graduation
BIOL	408	Vertebrate Ecology	4	C or better is required
PHYS	211	Principles of Physics I	4	C or better is required
KSP	220W	Human Relations in a Multicultural Society	3	C or better is required
KSP	222	Introduction to the Learner and Learning	2	C or better is required
BIOL		Unrestricted Elective in BIOL	3	C or better is required

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Term 5 Notes:

BIOL 409, offered in summer, may be substituted for BIOL 408. Consider BIOL 481, Lab Supervision and Maintenance.
 APPLY FOR PROFESSIONAL EDUCATION: You must have 1) 32 credits completed, 2) a cumulative GPA of 2.75 or better, 3) evidence you have registered for the MTLE Basic Skills Exam, 4) enrollment in or completion of KSP 220W and KSP 222, 5) federal background check completed, and 6) professional liability insurance(active status).

TERM 6 - SPRING

<i>Designator:</i>	<i>Course:</i>	<i>Course Name:</i>	<i>Credits:</i>	<i>Milestones:</i>
				Overall GPA \geq 2.0 Course Completion Rate \geq 67% Completion of \geq 90 credit hours Advance to Senior status
KSP	330	Planning, Instruction, and Evaluation in the Classroom.	5	C or better is required
KSP	202	Technology Integration in the Classroom	2	C or better is required
PHYS	212	Principles of Physics II	4	C or better is required
BIOL		Unrestricted Elective in BIOL	3	C or better is required

<i>Designator:</i>	<i>Course:</i>	<i>Course Name:</i>	<i>Credits:</i>	<i>Milestones:</i>
				Overall GPA \geq 2.0 Course Completion Rate \geq 67% Completion of \geq 90 credit hours Advance to Senior status
BIOL	499	Independent Study	1	C or better is required

Insert item

Term 6 Notes:

A cumulative GPA in science courses of 2.6 or better is required for student teaching. Apply for student teaching one year before your expected student teaching semester. Apply for graduation one year before expected graduation date.

TERM 7 - FALL

<i>Designator:</i>	<i>Course:</i>	<i>Course Name:</i>	<i>Credits:</i>	<i>Milestones:</i>
				Overall GPA \geq 2.0 Course Completion Rate \geq 67%
BIOL	485	Biology Teaching Methods and Materials	4	C or better is required
KSP	440	Creating Learning Environments To Engage Children, Families, and community	3	C or better is required
KSP	442	Reading, Literacy, and Differentiated Instruction in Inclusive Classrooms	3	C or better is required
GEOL	310	Earth and Space Systems	3	C or better is required
BIOL		Unrestricted Elective in BIOL	3	C or better is required

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Term 7 Notes:

A cumulative GPA in professional education courses of 2.75 or better, a cumulative GPA in science courses of 2.5 or better, and a cumulative GPA of 2.0 or better in Biology courses, is required for graduation.

TERM 8 - SPRING

<i>Designator:</i>	<i>Course:</i>	<i>Course Name:</i>	<i>Credits:</i>	<i>Milestones:</i>
				Overall GPA \geq 2.0 Course Completion Rate \geq 67%
KSP	464	Professional Seminar	1	
KSP	477	Student Teaching	11	

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Term 8 Notes:

PROGRAM NOTES

Some terms have 16 credits because Term 8 is student teaching, and totals only 12 credit hours.

<input type="checkbox"/>	1. Minimum of 15 credits per semester
<input checked="" type="checkbox"/>	2. General Education = 44 credits
<input checked="" type="checkbox"/>	3. Diverse Cultures = 2 course (6 credits minimum) from two disciplines
<input checked="" type="checkbox"/>	4. Writing Intensive = 2 courses (6 credits minimum)
<input checked="" type="checkbox"/>	5. Major = <input type="text" value="108"/> credits
<input checked="" type="checkbox"/>	6. Upper-Division Requirements = 40 credits minimum
<input type="checkbox"/>	7. Professional Education (if required) = 30 credits
<input type="checkbox"/>	8. Language Requirements (if BA) = 8 credits minimum
<input type="checkbox"/>	9. Minor = <input type="text"/> credits
<input checked="" type="checkbox"/>	10. Total credits required for degree <input type="text" value="120"/>

DEGREE MAP COMPLETE

<input checked="" type="checkbox"/>	<p>Map is complete and ready for review</p> <ol style="list-style-type: none"> 1. Faculty please send an email to your Department Chair when map is ready to review. 2. Department Chair please send an email to your Dean when map is ready to review. 3. Dean please send an email to the Assistant Vice President for Undergraduate Studies when map is ready to review.
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DEAN APPROVAL

<input checked="" type="checkbox"/>	Map reviewed and approved by Dean
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Save and Close