



## Natural Science (B.S.), with Biology Minor & Chemistry Certificate

This graduation plan illustrates the type of curriculum a new student would take to complete a degree in four years. It is not meant to serve as an official document. Students should contact their academic adviser to develop a personalized plan of study. Refer to the University Catalog for a complete list of requirements: <https://catalog.uwsp.edu/>.

*This plan assumes placement into English 101/202 and Math 111/225.*

Semester 1		Credits	Semester 2		Credits
#Declare Teaching Intent in the School of Education			EDUC 205	Pluralism for Educators	2
BIOL 110	Principles of Biology I (NSC)	5	BIOL 111	Principles of Biology II	5
CHEM 105	Fundamental Chemistry I (NSC)	5	CHEM 106	Fundamental Chemistry II	5
PSYCH 110	Introduction to Psychology (SS)	3	ENGL 101	Academic Reading and Writing (WC)	3
‡GEN ED	ART/HP/HU; GA/USD	3	GEN ED	Wellness (WLN)	1
<b>Total credits</b>		<b>16</b>	<b>Total credits</b>		<b>16</b>
			<b>Summer: COMM 101 Fund. Oral Communication (CT)</b>		<b>3</b>
Semester 3		Credits	Semester 4		Credits
EDUC 381	Educational Psychology (SS)	2	EDUC 331	Educational Technology	3
BIOL	Minor category A, B, or C (minor)	*3-4	BIOL	Minor category A, B, or C (minor)	*3-4
ASTR 205	The Solar System (NSC; Fa)	4	ASTR 206	Stars and Stellar Systems (NSC; Sp)	4
GEOG 105	The Dynamic Earth (NSC)	3	GEOG 106	Earth History (Fa/Sp varies)	1
ENGL 202	Academic Writing and Research (WC)	3	MATH 111 <b>OR</b>	Applied Calculus (QL)	(4)
<b>Total credits</b>		<b>15-16</b>	MATH 225 <b>OR</b>	Calculus I (QL)	(5)
			MATH 255	Elementary Statistical Methods (QL)	(4)
<b>Total credits</b>		<b>15-16</b>	<b>Total credits</b>		<b>15-17</b>
Semester 5		Credits	Semester 6		Credits
EDUC 351	Educating Students w/Special Needs	3	EDUC 386	Literacy in the Secondary School	3
EDUC 382	Managing Learning Environments (SS)	1	BIOL	Minor Electives (minor)	sum-to
PHYS 203	College Physics I	5	<i>*per combination with semesters 3 &amp; 4, see below</i>		*5-6
NRES 370	Intro to Environmental Study & Ed (ER)	3	PHYS 204	College Physics II	5
GEN ED	ART/HP/HU; GA/USD	3	GEN ED	ART/HP/HU; GA/USD	3
<b>Total credits</b>		<b>15</b>	<b>Total credits</b>		<b>16-17</b>
<b>Winterim: EDUC 385 Teaching the Early Adolescent</b>		<b>3</b>	<b>Summer: Praxis Subject Assessment (not required if 3.0 Major-GPA)</b>		
Semester 7		Credits	Semester 8		Credits
EDUC 300	Professional Portfolio Development II	1	BIED 398	Student Teaching in Biology	16
EDUC 337	Techniques in Secondary Ed-Science (Fa)	3	BIED 400	Seminar: Teaching for Science	1
CHEM 325 <b>OR</b>	Organic Chemistry (certif., either option)		<b>Total credits</b>		<b>17</b>
CHEM 221 <b>AND</b>	Survey of Organic Chemistry Lect (Fa)		<b>Total credits</b>		<b>17</b>
CHEM 222	Survey of Organic Chemistry Lab (Fa)	4	<b>Total Credits *130-134</b>		
GEN ED	ART/HP/HU; GA/USD	3			
GEN ED	ART/HP/HU; GA/USD	3			

(Fa) = offered fall semesters, (Sp) = offered spring semesters, (Su) = offered summer semesters

General Education Program (GEP) categories w/credits & abbreviations (#courses may fulfill >1 GEP category, consult with your advisor; placement scores impact certain credits):

Foundational Skills & Dispositions = 3cr Oral Communication/Critical Thinking (CT), 0-3cr Quantitative Literacy (QL), Wellness ≥1cr (WLN), 3-6cr Written Communication (WC)

Human Cultures & Sciences (min 3cr—max 9cr each, 24cr total) = Arts (ART), Historical Perspectives (HP), Humanities (HU), Natural Sciences (NSC), Social Sciences (SS)

Social & Environmental Responsibility (3cr each) = Environmental Responsibility (ER), Global Awareness (GA), U.S. Diversity (USD)

\*The Biology minor requires a course from two different categories, A/B/C, and a minimum of 22 total credits with no more than 8 credits at the 200-level; courses in categories

A/B/C can also serve as electives if two subcategories are already met; some restrictions regarding 200-level and 300-level courses of the same topic may apply

#Certificate in an Additional Science Discipline = 13-14 credits (Certificate in either Biology, Chemistry, Physics, Earth/Space Sciences, or Environmental Sciences; Certificate

MUST be a different discipline than the minor)

**NOTE:** Natural Science majors must choose a minor in any one of the following: Chemistry, Biology, Physics, and Earth/Space Sciences

Graduates are qualified to teach any discipline for science grades 4-12



This graduation plan illustrates the type of curriculum a new student would take to complete a degree in four years. It is not meant to serve as an official document. Students should contact their academic adviser to develop a personalized plan of study. Refer to the University Catalog for a complete list of requirements: <https://catalog.uwsp.edu/>.

This plan assumes placement into English 101/202 and Math 118.

Semester 1			Credits	Semester 2			Credits
#Declare Teaching Intent in the School of Education				EDUC 205	Pluralism for Educators		2
BIOL 110	Principles of Biology I (NSC)		5	BIOL 111	Principles of Biology II		5
CHEM 105	Fundamental Chemistry I (NSC)		5	CHEM 106	Fundamental Chemistry II		5
MATH 118	Pre-Calculus Algebra (QL)		4	MATH 119	Pre-Calculus Trigonometry		2
PSYCH 110	Introduction to Psychology (SS)		3	ENGL 101	Academic Reading and Writing (WC)		3
			<b>Total credits</b>				<b>Total credits</b>
			<b>17</b>				<b>17</b>
				<b>Summer:</b> COMM 101 Fund. Oral Communication (CT)			<b>3</b>
Semester 3			Credits	Semester 4			Credits
EDUC 381	Educational Psychology (SS)		2	EDUC 382	Managing Learning Environments (SS)		1
BIOL	Minor category A, B, or C (minor)		*3-4	BIOL	Minor category A, B, or C (minor)		*3-4
ASTR 205	The Solar System (NSC; Fa)		4	ASTR 206	Stars and Stellar Systems (NSC; Sp)		4
GEOG 105	The Dynamic Earth (NSC)		3	GEOG 106	Earth History (Fa/Sp varies)		1
ENGL 202	Academic Writing and Research (WC)		3	MATH 111 OR	Applied Calculus (QL)		(4)
				MATH 225 OR	Calculus I (QL)		(5)
				MATH 255	Elementary Statistical Methods (QL)		(4)
				GEN ED	Wellness (WLN)		1
			<b>Total credits</b>				<b>Total credits</b>
			<b>15-16</b>				<b>14-16</b>
Semester 5			Credits	Semester 6			Credits
EDUC 331	Educational Technology		3	EDUC 386	Literacy in the Secondary School		3
EDUC 351	Educating Students w/Special Needs		3	BIOL	Minor Electives (minor)	sum-to	
PHYS 203	College Physics I		5		*per combination with semesters 3 & 4, see below		*5-6
NRES 370	Intro to Environmental Study & Ed (ER)		3	PHYS 204	College Physics II		5
‡GEN ED	ART/HP/HU; GA/USD		3	GEN ED	ART/HP/HU; GA/USD		3
			<b>Total credits</b>				<b>Total credits</b>
			<b>17</b>				<b>16-17</b>
<b>Winterim:</b> EDUC 385 Teaching the Early Adolescent			<b>3</b>	<b>Summer:</b> Praxis Subject Assessment (not required if 3.0 Major-GPA)			
Semester 7			Credits	Semester 8			Credits
EDUC 300	Professional Portfolio Development II		1	BIED 398	Student Teaching in Biology		16
EDUC 337	Techniques in Secondary Ed-Science (Fa)		3	BIED 400	Seminar: Teaching for Science		1
CHEM 325 OR	Organic Chemistry (certif., either option)						
CHEM 221 AND	Survey of Organic Chemistry Lect (Fa)						
CHEM 222	Survey of Organic Chemistry Lab (Fa)		4				
GEN ED	ART/HP/HU; GA/USD		3				
GEN ED	ART/HP/HU; GA/USD		3				
GEN ED	ART/HP/HU; GA/USD		3				
			<b>Total credits</b>				<b>Total credits</b>
			<b>17</b>				<b>17</b>
							<b>Total Credits *136-140</b>

(Fa) = offered fall semesters, (Sp) = offered spring semesters, (Su) = offered summer semesters

General Education Program (GEP) categories w/credits & abbreviations (#courses may fulfill >1 GEP category, consult with your advisor; placement scores impact certain credits):

Foundational Skills & Dispositions = 3cr Oral Communication/Critical Thinking (CT), 0-3cr Quantitative Literacy (QL), Wellness ≥1cr (WLN), 3-6cr Written Communication (WC)

Human Cultures & Sciences (min 3cr—max 9cr each, 24cr total) = Arts (ART), Historical Perspectives (HP), Humanities (HU), Natural Sciences (NSC), Social Sciences (SS)

Social & Environmental Responsibility (3cr each) = Environmental Responsibility (ER), Global Awareness (GA), U.S. Diversity (USD)

\*The Biology minor requires a course from two different categories, A/B/C, and a minimum of 22 total credits with no more than 8 credits at the 200-level; courses in categories

A/B/C can also serve as electives if two subcategories are already met; some restrictions regarding 200-level and 300-level courses of the same topic may apply

#Certificate in an Additional Science Discipline = 13-14 credits (Certificate in either Biology, Chemistry, Physics, Earth/Space Sciences, or Environmental Sciences; Certificate

MUST be a different discipline than the minor)

**NOTE:** Natural Science majors must choose a minor in any one of the following: Chemistry, Biology, Physics, and Earth/Space Sciences

Graduates are qualified to teach any discipline for science grades 4-12