



Northwest Missouri State University  
 Department of Natural Sciences  
 Earth Science Education – Comprehensive Major – No Minor Required  
 Bachelor of Science

Term 1	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
62-107	Ecology and Developmental Foundations of Education		2	Corequisites: Prof Learning Comm I
62-113	Prof Learning Comm I		1	Corequisites: Ecology and Developmental Foundations of Education
17-118	Precalculus Algebra		3	
04-106/107	Principles of Biology & Lab		4	
27-110/111 or 27-114/115	General Geology & Lab  General Earth Science & Lab		4	
77-101	University Seminar		1	
10-111	Composition		3	
<b>Total Hours</b>			<b>18</b>	
Term 2	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
62-108	Introduction to Curriculum, Instruction and Assessment		2	Corequisites: Pro Learning Comm II
62-116	Pro Learning Comm II		1	Corequisites: Introduction to Curriculum, Instruction and Assessment
24-114/115	General Chemistry I & Lab		4	
27-212	Historical Geology	General Earth Science & Lab	4	SPRING ONLY course
10-112	Composition II	Composition I	3	
	Fine Art		3	Could be in the summer.
<b>Total Hours</b>			<b>17</b>	
Term 3	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
62-109	Positive Communication in an Inclusive Classroom		2	Corequisites: Prof Learning Comm III
62-119	Prof Learning Comm III		1	Corequisites: Positive Communication in an Inclusive Classroom
27-220 Or 27-335	Mineralogy  Physical Oceanography	General Geology & Lab or General Earth Science & Lab; General Chemistry I & Lab	4	SPRING ONLY course EVEN YRS
24-116/117	General Chemistry II & Lab	General Chemistry I & Lab	5	
10-220	Intro to Literature		3	
29-102	Fundamentals of Oral Communications		3	Could be in the summer.
<b>Total Hours</b>			<b>18</b>	
Term 4	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
62-215	Desig Integ Cur Mid/Sec I	Phase I courses passed with a 'C' or better.	1	Corequisites: Dev Found Adol Lit; Prof Learning Comm Mid/Sec IV
62-230	Dev Found Adol Lit	Phase I courses passed with a 'C' or better.	1	Corequisites: Desig Integ Cur Mid/Sec I; Prof

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				Learning Comm Mid/Sec IV
62-217	Prof Learning Comm Mid/Sec IV	Phase I courses passed with a 'C' or better.	1	Corequisites: Desig Integ Cur Mid/Sec I; Dev Found Adol Lit
08-299	Educational Psy		3	Could be in the summer.
27-420 or 27-540	Petrology  Paleontology	Mineralogy  Historical Geology	4	SPRING ONLY course
	Civics: History		3	
	Social Science		3	Could be in the summer.
<b>Total Hours</b>			<b>17</b>	
<b>Term 5</b>	<b>Course Title/Description</b>	<b>Pre-requisite</b>	<b>Cr Hrs</b>	<b>Milestone/Notes</b>
62-218	Designing Integrated Curriculum Part II	Phase I courses passed with a 'C' or better.	1	Corequisites: Classroom Management Strategies; Strategies Professional Learning Comm V
61-270	Classroom Management Strategies	Phase I courses passed with a 'C' or better.	1	Corequisites: Designing Integrated Curriculum Part II; Strategies Professional Learning Comm V
62-219	Strategies Professional Learning Comm V	Phase I courses passed with a 'C' or better.	1	Corequisites: : Designing Integrated Curriculum Part II; Classroom Management Strategies
27-305	Pract in Teach Lab		1	
40-122/123	Descriptive Astronomy & Lab		4	
34-102	Into to American Government		3	
<b>Total Hours</b>			<b>14</b>	
<b>Term 6</b>	<b>Course Title/Description</b>	<b>Pre-requisite</b>	<b>Cr Hrs</b>	<b>Milestone/Notes</b>
62-321	Designing Intervention and Assessment	Phase I courses passed with a 'C' or better.	1	Corequisites: Theory & Tech of Literacy Intervention; Professional Learning Community VI
62-323	Theory & Tech of Literacy Intervention	Phase I courses passed with a 'C' or better.	1	Corequisites: Designing Intervention and Assessment; Professional Learning Community VI
61-325	Professional Learning Community VI	Phase I courses passed with a 'C' or better.	1	Corequisites: Designing Intervention and Assessment; Theory & Tech of Literacy Intervention
28-550	History of Science & Teachonlogy	15 hours of science credit.	3	SPRING ONLY course
32-360 Or	Dynamic & Synoptic Meteor	General Geology & Lab or	3	SPRING ONLY course EVEN YRS

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32-361	Climatology	General Earth Science & Lab;		
25-110/25111	General Physics I & Lab		4	
	Humanities		3	
<b>Total Hours</b>			<b>16</b>	
<b>Term 7</b>	<b>Course Title/Description</b>	<b>Pre-requisite</b>	<b>Cr Hrs</b>	<b>Milestone/Notes</b>
61-431	Secondary School Practicum	Phase II courses passed with a 'C' or better. Admitted to Teacher Education.	1	
61-569	Multiculturalism in Ed	Admitted to Teacher Education.	3	
08-322	Adolescent Psychology	Educational Psy	2	
28-580	Methods Secondary School Science	Admitted to Teacher Education.	3	FALL ONLY course
27-360	Environmental Geology	General Geology & Lab or General Earth Science & Lab	4	FALL ONLY course
	Humanities		3	
	Digital Literacy		3	
<b>Total Hours</b>			<b>16</b>	
<b>Term 8</b>	<b>Course Title/Description</b>	<b>Pre-requisite</b>	<b>Cr Hrs</b>	<b>Milestone/Notes</b>
61-472	Directed Teaching in the Secondary School	Maintain GPA; Complete MoCA	10	Corequisites: Professional Capstone
62-432	Professional Capstone	Maintain GPA; Complete MoCA	2	Corequisites: Directed Teaching in the Secondary School
<b>Total Hours</b>			<b>12</b>	
<b>Term 9</b>	<b>Course Title/Description</b>	<b>Pre-requisite</b>	<b>Cr Hrs</b>	<b>Milestone/Notes</b>
<b>Total Hours</b>				

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