



Northwest Missouri State University
 Department of Natural Sciences
 Physics 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	
04-106/107	Principles of Biology & Lab		4	
24-114/115	General Chemistry I & Lab		4	Enrolling in General Chemistry 112/113 should be considered prior to General Chemistry I if a rigorous high school Chemistry background is absent. Similar considerations without proficiency in high school Algebra II.
77-101	University Seminar		1	
10-111	Composition		3	
Total Hours			15	
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	
24-116/117	General Chemistry II & Lab	General Chemistry I & Lab	5	
17-120	Calculus I	Precalculus OR Precalculus Algebra AND Trigonometry	4	Students with 27 ACT math score are eligible to begin with Calculus I.
10-112	Composition II	Composition I	3	
	Fine Art		3	Could be in the summer.
Total Hours			18	
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	
25-120/121	Fund Classical Physics I & Lab	Calculus I	4	
04-420 Or 04-376	Environmental Issues Basic Ecology	Principles of Biology & Lab; General Chemistry I & Lab	4	Permission of instructor if taking Basic Ecology.
17-121	Calculus II	Calculus I	5	
Total Hours			16	
Term 4	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
62-301	Dev Found Adol Lit and Content Lit	Phase I courses passed with a 'C' or better.	2	
62-302	Prof Learning Comm Mid/Sec IV	Phase I courses passed with a 'C' or better.	1	
08-299	Educational Psy		3	Could be in the summer.

1 = a milestone course completed by end of year 1 to remain on pace to finish degree requirements in four years.

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25-230/231	Fund Classical Physics II & Lab	Classical Physics I & Lab AND Calculus II	4	
	Civics: History		3	
	Humanities		3	
Total Hours			16	
Term 5	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
62-311	Desig Integ Mid/Sec Cur	Phase I courses passed with a 'C' or better.	1	
61-310	Classroom and Behavior Management Strategies	Phase I courses passed with a 'C' or better.	1	
62-312	Prof Learning Comm Mid/Sec V	Phase I courses passed with a 'C' or better.	1	
25-430	Optics	Calculus I	3	
29-102	Fundamentals of Oral Communications		3	Could be in the summer.
	Social Science		3	
10-220	Intro to Literature		3	Could be in the summer.
Total Hours			15	
Term 6	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
62-324	Intervention and Assessment: Lit, Spe Pop, Eng Lang	Phase I courses passed with a 'C' or better.	2	
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
25-352	Modern Physics	Fund Classical Physics II & Lab	3	Spring EVEN yrs
	Phycis Electives		4	
34-102	Into to American Government		3	
28-550	History of Science and Teachonlgy	15 hours of science credit.	3	SPRING ONLY course
Total Hours			16	
Term 7	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
61-431	Secondary School Practicum	Phase II courses passed with a 'C' or better. Admitted to Teacher Education.	1	Professional Learning Community VI
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
25-489	Phycis Practicum		1	
	Humanities		3	
	Digital Literacy		3	
Total Hours			16	
Term 8	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
61-472	Directed Teaching in the Secondary School	Maintain GPA; Complete MoCA	10	Corequisites: Professional Capstone

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62-432	Professional Capstone	Maintain GPA; Complete MoCA	2	Corequisites: Directed Teaching in the Secondary School
27-112/113 or 27-114/115	General Geology and Lab General Earth Science and Lab		4	Could be in the summer.
			Total Hours	16

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 = a milestone courses taken in final year to complete degree requirements.