



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 |
| 61-371 | Intro to Special Ed | | 3 | |
| 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. |
| 25-230/231 | Fund Classical Physics II & Lab | Classical Physics I & Lab AND Calculus II | 4 | |
| | Civics: History | | 3 | |

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

2 = a milestone course completed by end of year 2 to remain on pace to finish degree requirements in four years.

3 = a milestone course completed by end of year 3 to remain on pace to finish degree requirements in four years.

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



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| | | | | |
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| | 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 |
| | Physcis Electives | | 4 | |
| 34-102 | Into to American Government | | 3 | |
| 28-550 | History of Science and Teachonlogy | 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 | Physcis 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 |
| 62-432 | Professional Capstone | Maintain GPA; Complete MoCA | 2 | Corequisites: Directed Teaching in the Secondary School |

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|--------------------------------|--|--|--------------------|-------------------------|
| 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 course completed by end of year 3 to remain on pace to finish degree requirements in four years.
-  = a milestone courses taken in final year to complete degree requirements.