**Science Education, Middle Grades Science (6-9) Concentration 2019-2020**

Students seeking a baccalaureate degree in Middle Grades Education must complete an academic or professional concentration, in addition to one teaching specialty area, as part of their degree requirements. Students may choose from the following **Academic or Professional Concentrations:** American Indian Studies (24 hours), Art (21 hours), Biology (26 hours), English (24 hours), Geography (24-25 hours), Geology (26 hours), History (24 hours), Mathematics (25 hours), Music (18 hours), Physics (24 hours), Psychology (24 hours), Reading (18 hours), Sociology (24 hours), Spanish (24 hours), or Special Education (18 hours). Students should select their concentrations as soon as possible in consultation with the appropriate departmental chair and the Coordinator of Undergraduate Science Education. Students may need to take 0-10 hours of guided electives. The number of hours of guided electives may vary according to how courses are distributed over General Education and degree requirements and concentration requirements.

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| **Freshman Year** | | | | | | | |
| **Fall** | | | | **Spring** | | | |
|  | Course Number | Course Title | Credits |  | Course Number | Course Title | Credits |
|  | UNV 1000 | Freshman Seminar | 1 |  | ENG 1060 | Composition II | 3 |
|  | ENG 1050 | Composition 1 | 3 |  | General Education | Social Science | 3 |
|  | MAT 1070 | College Algebra | 3 |  | CHM 1300 | General Chemistry I | 3 |
|  | BIO 1000 | Principles of Biology | 3 |  | CHM 1100 | General Chemistry Laboratory I | 1 |
|  | BIOL 1000 | Laboratory Investigation and Experiences in General Biology | 1 |  | General Education | Physical Education | 1 |
|  | General Education | Social Science | 3 |  | General Education | Fine Art | 3 |
|  | General Education | Social Science | 3 |  |  |  |  |
| **Total Credits** | | | 17 |  | **Total Credits** | | 14 |

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| **Sophomore Year**   * Keep your grades high. You need a 2.7 GPA for admission to the Teacher Education Program * Study for the Praxis CORE if you do not have the SAT or ACT scores for exemption from taking the Praxis Core. * Plan to take Praxis CORE during the Fall of your Sophomore year * Plan to apply to Admission to Teacher Education Program Spring of Sophomore year   + You must complete TaskStream Checkpoint #1   + You must have a 2.7 GPA or higher   + You must have successful completion of EDN 2100   + You must have less than 9 hours of General Education courses remaining   + You must have passing Praxis Core, SAT or ACT scores | | | | | | | |
| **Fall** | | | | **Spring** | | | |
|  | Course Number | Course Title | Credits |  | Course Number | Course Title | Credits |
|  | BIO 1030 | Basic Human Biology | 3 |  | EDN 3140 | Aspects of Human Development and Educational Psy (6-12) | 3 |
|  | EDN 2100 | Introduction to Education | 3 |  | MAT 2100 | Introduction to Statistics | 3 |
|  | CHM 1310 | General Chemistry II | 3 |  | GLY 1150 | Earth Science | 3 |
|  | CHM 1110 | General Chemistry Laboratory II | 1 |  | GLYL 1150 | Earth Science Lab | 1 |
|  | General Education | Physical Education | 1 |  | General Education | Philosophy and Religion | 3 |
|  | General Education | Literature | 3 |  | SED 3310 | Introduction to Exceptional Children | 3 |
| **Total Credits** | | | 14 |  | **Total Credits** | | 16 |

**Science Education, Middle Grades Science (6-9) Concentration 2019-2020**

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| **Junior Year**   * Apply for the Professional Semester and Graduation during the Spring of Junior Year * Complete TasksStream checkpoint #2 during the Spring of Junior Year | | | | | | | |
| Fall | | | | Spring | | | |
|  | Course Number | Course Title | Credits |  | Course Number | Course Title | Credits |
|  | BIO 3040 | Principles of Ecology | 4 |  | GLY 1250  (Spring only) | Earth History | 3 |
|  | PHS 1560 | Astronomy | 3 |  | GLYL 1250 | Earth History Lab | 1 |
|  | PHY 1500 | College Physics I | 3 |  | PHY 1500 | College Physics II | 3 |
|  | PHY 1560 | College Physics I Lab | 1 |  | PHY 1560 | College Physics II Lab | 1 |
|  | \*\*EDN 3130 | Content Area Literacy | 3 |  | GLY 2460 | Weather and Climate | 3 |
|  | SCE 3000 | Early Experiences for Prospective Science Teachers | 1 |  | SCE 3010 | Early Laboratory Experiences for Prospective Science Teachers | 2 |
|  |  |  |  |  | General Education | Elective- Arts and Humanities or Social Sciences | 3 |
| **Total Credits** | | | 15 | **Total Credits** | | | 16 |

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| **Senior Year** | | | | | | | |
| **Fall** | | | | **Spring** | | | |
|  | Course Number | Course Title | Credits |  | Course Number | Course Title | Credits |
|  | BIO 1010 | Botany | 4 |  | SCE 4490 | Internship in Science in Middle/ Secondary Schools | 9 |
|  | SCE 3500 | The Teaching of Science in the Middle Grades (6-9) | 3 |  | SCE 4750 | Professional Seminar in Science in Middle/ Secondary Schools | 3 |
|  | General Education | History | 3 |  |  |  |  |
|  | ENV 1100 | Environmental Science | 3 |  |  |  |  |
|  | GLY 3100 | Minerals and Rocks | 3 |  |  |  |  |
| **Total Credits** | | | 16 | **Total Credits** | | | 12 |