

ADVISING GUIDE

Bachelor of Science: Biology Education (grades 9-12)

| Course | Title | Credits | Sem. |
|-----------------|---|---------|--|
| | Admission to Teacher Preparation Program Requirements | | _ |
| COMM XXX | Any Goal 1 COMM with COMM Prefix (Minimum grade of C or better required for admission to TPP) | 3 | В |
| ENG 151 or 251 | Academic Writing or Writing in Professions (Minimum grade of C or better required for admission to TPP) | 4 | В |
| MATH XXX | Any Goal 4 MATH with MATH prefix (Minimum grade of C or better required for admission to TPP) | 3-5 | В |
| | Secondary Standards of Effective Practice Core | | |
| ED 101 | Introduction to Education & Lab | 3 | В |
| ED 102 | Tech: Classroom Applications & Portfolio | 2 | B. Su |
| PSYC 341 | Child & Adolescent Psychology *Pre-Requisite: PSYC 101 | 3 | В |
| ED 312 | Human Relations for Teachers | 3 | В |
| SPED 290 | Introduction to Special Needs & Lab *Pre-Requisite: ED 101 & Sophomore Status | 3 | В |
| ED 301 | The Teaching & Learning Process & Lab *Should be taken prior to ED 304 | 3 | F |
| ED 304 | Professional Development & Classroom Applications *Pre-Requisite: ED 301 | 1 | S |
| ED 304L | Pre-Student Teaching Experience Practicum | 0 | S |
| 25 50 .2 | Not Required, but Strongly Encouraged | | |
| HLTH 225 | Alcohol, Narcotics & Tobacco | 2 | F |
| | Required Content Classes | | |
| ED 407 | Secondary Methods: Science & Lab | 3 | se |
| ED 430 | Reading in the Content Areas | 2 | S |
| BIOL 200 & 200L | Introduction to Cellular Biology & Lab (BIOL 200L) | 4 | В |
| BIOL 201 & 201L | Introduction to Biodiversity & Evolution & Lab (BIOL 201L) | 4 | В |
| BIOL 287 | Sophomore Biology Seminar | 1 | В |
| BIOL 302 & 302L | Botany & Lab (BIOL 302L) *Pre-Requisites: BIOL 200 & BIOL 201 | 4 | S |
| BIOL 303 & 303L | Microbiology & Lab (BIOL 303L) *Pre-Requisites: BIOL 200 | 5 | F |
| BIOL 305 & 305L | Human Anatomy & Physiology I & Lab (BIOL 305L) *Pre-Requisites: BIOL 200 & CHEM 121 or BIOL 200 & CHEM 231 | 4 | F |
| BIOL 311 & 311L | Ecology & Lab (BIOL 311L) *Pre-Requisites: BIOL 200 & BIOL 201 & BIOL 287 & BIOL 302 | 4 | F |
| BIOL 321 & 321L | Genetics & Lab (BIOL 321L) *Pre-Requisites: BIOL 200 & BIOL 201 | 4 | S |
| BIOL 487 | Senior Biology Seminar *Pre-Requisites: BIOL 200 & BIOL 201 & BIOL 287 & Minimum 75 credits | 1 | В |
| | Required Related Fields Courses | | |
| ENVS 101 & 101L | Physical Geology & Lab (ENVS 101L) | 4 | F |
| ENVS 102 & 102L | Historical Geology & Lab (ENVS 102L) *Pre-Requisites: ENVS 100 or ENVS 101 | 4 | S |
| MATH 200 | Intro to Statistics | 3 | В |
| | Choose to complete either Group A or Group B | | |
| CUEN 424 0 4241 | Group A. (8 Credits) | | - |
| CHEM 121 & 121L | Basic Chemistry & Lab (CHEM 121L) Introductory Organic/Biochemistry & Lab (CHEM 122L) *Pre-Requisites: CHEM 121 or CHEM 231 | 4 | F S |
| CHEM 122 & 122L | Group B. (9 Credits) | 4 | 3 |
| CHEM 231 & 231L | General Chemistry I & Lab (CHEM 231L) | 4 | F |
| CHEM 232 & 232L | General Chemistry II & Lab (CHEM 232L) *Pre-Requisites: CHEM 231 | 5 | S |
| CHEW 232 & 2322 | Choose one Physics course with its corresponding lab: | | |
| PHYS 100 & 100L | Our Physical Universe & Lab (PHYS 100L) | | Varies |
| OR | OR | | 1000 |
| PHYS 121 & 121L | Introduction to Astronomy & Lab (PHYS 121L) | 4 | F |
| OR | OR | | |
| PHYS 141 & 141L | College Physics I & Lab (PHYS 141L) | | F |
| | Student Teaching | | |
| ED 465 | Secondary Student Teaching: Grade 5-12 | 12 | В |
| ED 473 | Teacher Licensure | 0 | В |
| | Degree & Major Requirements | | |
| | LEP/MnTC requirements | 45 | |
| | Biology Education major | 54-55 | |
| | Education courses | 29 | |
| | Total credits required for this degree | 109-112 | <u> </u> |
| | Total credits required for graduation | 120 | |

Courses in the shaded area can be taken prior to admission to the Teacher Preparation Program

Courses not in the shaded areas require admission to the Teacher Preparation Program

F = Fall S = Spring B = Both F & S Su = Summer fo = fall odd so = spring odd fe = fall even se = spring even For example- fo = fall 2023; se = spring 2024

You are responsible for keeping informed of any changes in requirements which may affect your academic career.