MSSU DEPARTMENT OF TEACHER EDUCATION

Unified Science Biology 9-12

NAME:_____________________________________
(First) (Last) (MI) SID_________________

ADDRESS:_________________ (Street) (City) (State) (Zip) (Phone)

GENERAL ED REQUIREMENTS

A. ENG 101 Eng Comp 3
A. ENG 102 or 111 Eng Comp 3
B. COMM 100 Oral Comm 3
C. MATH 140 3
(MATH 130 & 135 or 140)
D1. Life Sciences 4
BIO 110, 111, 121; all are required
D2. CHEM; PHYS; or GEOL 3-5
(Chem 151, 152; PHYS 151, 152; GEOL 120, 185)
E1. HIST 110 or 120 Amer Hist 3
E1. PSC 120 Nat’l, State, Gov’t 3
E2. PSY 100 Gen Psychology 3
E2. Social & Behavioral Science 3
(ECON 101, GEOG 101, SOC 110)
F1. Humanities & Fine Arts 3
(Art 110, MUSIC 106 or 110, TH 110)
F2. Humanities & Fine Arts 3
(Eng 250, 261, 262, 271, 272, 281, 282, 305, Phil 201, 212)
G. KINE 103 Lifetime Wellness 2
H. UE 100 University Experience 3
I. EDUC 280 Educ in Global Soc 3

DEPARTMENT OF TEACHER ED REQUIREMENTS

- Grades of C or better in professional education are required for Certification by the State of Missouri
- 55 hrs required to enter Jr. Block
- 2.75 GPA
- Enhanced ACT composite 20 or higher
- Mo GEA must be passed before Jr. Block
- Complete MEP Assessment

APPLICATION FOR ADMISSION TO TEACHER ED MUST BE APPROVED PRIOR TO JR. BLOCK.

JR. BLOCK

EDUC 321 Microteaching 2
EDUC 329 Pedagogy 4
EDUC 423 Classroom Mgt 2
EDUC 422 Cont Area Lit I: MS/Sec 3
(Recommended with Jr. Block)

POST JR. BLOCK

EDUC 424 Cont Area Lit II: MS/Sec 3
*CANNOT be concurrent with EDUC 422
(For those students graduating Fall 2017 or later, EDUC 424 will be required for graduation)
EDUC 333 Tchg Sci in Sec Sch 3
(May be taken with Jr. Block)

ELECTIVE (Choose One)

EDUC 412 Mid Sch Org/Ph & Curr 2
EDUC 413 Mth of Tchg M.S. 2
EDUC 420 Intro to Counseling 3
PSY 412 Measurement & Eval 2

All content and EDUC courses completed before professional semester.

PROFESSIONAL SEMESTER

EDUC 432 Critical Issues 2
EDUC 462 Student Teaching (Sec.) 10

Program requirements are subject to revision due to certification changes.

All candidates must submit an approved portfolio, pass the Missouri Content Assessment & complete an exit interview.

For Oklahoma, Kansas, & Arkansas certification see the certification officer in the Teacher Ed Administrative Office.
## UNIFIED SCIENCE BIOLOGY REQUIREMENTS

### Required Biology Courses . . . 12 hrs
- BIO 121 Anatomy & Physiology I 4
- BIO 110 Principles of Biology I 4
- BIO 111 Principles of Biology II 4

### Microbiology, Genetics, Cell Biology & Biochemistry and Evolution . . . 17-18 hrs
- BIO 305 Genetics 4
- BIO 210 Molecular Biology 4
- BIO 231 General and MedMicro 5
- BIO 221 Human Anatomy and Phys II 4-5
  OR
- BIO 301 Human Physiology
  OR
- BIO 331 Comp Vertebrate Anatomy

### Botany - select one. . . . . . . . 3-4 hrs
- BIO 316 Economic Botany 3-4
- BIO 322 Tax of Flowering Plants
- BIO 440 Plant Pathology

### Ecology - select one. . . . 4
- BIO 312 Environmental Biology 4
- BIO 402 General Ecology
- BIO 481 Aquatic Ecology

### Supporting Requirements . . . . . . . 35 hrs
- PHIL 420 Philosophy of Science
  OR
- Approved Substitute 3
  MATH 140 Algebra and Trigonometry 5
  (MATH 130 + MATH 135 = MATH 140)
- CHEM 151 General Chemistry I 5
- CHEM 152 General Chemistry II 5
- PHYS 151 Elem College Physics I 5
- PHYS 152 Elem College Physics II 4
- GEOL 120 Introduction to Geology 4
- GEOL 185 Introduction to Meteorology 4

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**To add a Middle School endorsement:** Complete Educ 412, Educ 413, Educ 342 (recommended) or Educ 343. Application is made after graduation through DESE. Student teaching is done in your initial certification area; grades 9-12.

DESE requires a 3.0 grade point average in the content classes beginning with fall 2017 graduates.