## Murray State University
### Department of Biology
#### BA – Biology/Secondary Certification (Grades 8-12)

<table>
<thead>
<tr>
<th>Student</th>
<th>M#</th>
<th>Advisor</th>
</tr>
</thead>
</table>

### UNIVERSITY STUDIES FOR B.A. DEGREE (43 HOURS)

#### Oral and Written Communication (7 Hours)

- **ENG 105** Critical Reading, Writing, and Inquiry 4
- **COM 161** Introduction to Public Speaking 3

#### Scientific Inquiry, Methodologies, and Quantitative Skills (15 Hours)

- **CHE 201** General College Chemistry 5
- **CHE 202** General Chemistry 5
- **MAT 150** Algebra and Trigonometry 5

#### World’s Historical, Literary, and Philosophical Traditions (6 Hours)

- **CIV 201** or **202** World Civilization I or II
- **HUM 211** The Western Humanities Tradition

#### Global Awareness, Cultural Diversity, and the World’s Artistic Traditions (3 Hours)

- Approved University Studies 3

#### Social and Self-Awareness and Responsible Citizenship (6 Hours)

- electives
  - **BIO 308** recommended 3
  - Advisor Approved 3

#### University Studies Approved Electives (6 Hours)

- **PHY 130/131** General Physics I 4
- Approved University Studies Elective 3

### Secondary Certification Courses (32 hours)

- **EDU 180** Exploring the Teaching Profession 3
- **EDU 280** Educating for Human Development 3
- **EDU 380** Inclusive Teaching of Diverse Learners 3
- **EDU 480** Effective Pedagogy¹ 2
- **EDU 485** Professional Perspectives for Teaching² 1
- **SEC 420** Practicum in Secondary Schools¹ 3
- **SEC 422** Extended Practicum² 4
- **SEC 421** Student Teaching in the Secondary School 14

*Writing-Intensive Course

### Required Major Courses (38 hours)

- **BIO 100T** Transitions 1
- **BIO 115** Cellular Basis of Life 3
- **BIO 216** Biological Inquiry and Analysis 4
- **BIO 221** Animal Form and Function 4
- **BIO 222** Plant Form and Function 4
- **BIO 300** Microbiology 4
- **BIO 320** Comparative Vertebrate Anatomy 5
- **BIO 322** Animal Physiology 4
- **BIO 330** Principles of Ecology 4
- **BIO 333** Genetics 4
- **BIO 499** Senior Biology Seminar 1

### Chemistry Co-Requirements for Biology Major (11-12 hours)

#### Group 1:

- **CHE 312** Organic Chemistry I w/Laboratory 5
- **CHE 320** Organic Chemistry II 3

#### Group 2:

- **CHE 210** Brief Organic Chemistry 3
- **CHE 215** Brief Chemistry Laboratory 1
- **CHE 330** Basic Biochemistry 3

### Physics Co-Requirements for Biology Major

- **PHY 132**
- **PHY 133** General Physics II with Laboratory 5

### Required Minor (3-21 hours)

- 3
- 3
- 3
**Program Requirements**

Faculty continuously assess candidates’ progress toward demonstrating proficiency in the Kentucky Teacher Performance Standards using a checkpoint system: admission to teacher education, admission to student teaching, and program completion. The eligibility portfolio is assessed during the student teaching semester.

Teacher certification requirements are subject to change. Before registering for test(s), please refer to the Educational Testing Service (ETS) website for current requirements or contact your academic advisor.

**REQUIREMENTS FOR ADMISSION TO TEACHER EDUCATION AND STUDENT TEACHING AT MURRAY STATE UNIVERSITY** (Revised 8-29-18)

Teacher Education

To be admitted to teacher education, students must meet these requirements.

1. Attend an admission to teacher education orientation.
2. Review the Professional Code of Ethics for Kentucky School Personnel. During the admission to teacher education orientation, sign the Declaration of Eligibility (pink sheet) affirming a commitment to uphold the code and acknowledging awareness of information required for state certification. If answers given on the Declaration of Eligibility change during the time of participation in the teacher education program, the Director of Teacher Education Services must be notified immediately.
3. Earn passing subject scores on one of these tests. Request ETS to send scores to Teacher Education Services electronically by using this code - R1494.
   a) Core Academic Skills for Educators (CASE): Reading 156, Writing 162, Mathematics 150
   b) PPST (taken before 9-2-14): Reading 176, Writing 174, Math 174
   c) GRE (Graduate Records Exam): Verbal 150, Quantitative 143, analytical Writing 4.0. This exam is for students seeking initial certification at the graduate level
4. Earn an overall undergraduate GPA of > 2.75 on a 4.0 scale at the point of admission to teacher education. Maintain a 2.75 GPA throughout the entire certification program.
5. Complete a minimum of 24 credit hours with a GPA > 2.75, including this coursework:
   a) ENG 101, 102, 104 or 105 with a “B” or higher
   b) MAT 117 (or higher level math) with a “B” or higher

---

**Total Curriculum Requirements – 130-149 hours**

1SEC 420 and EDU 480 must be taken together and two semesters before student teaching.
2SEC 422 must EDU 485 must be taken one semester before student teaching.

**IMPORTANT:** Upon completion of 60 undergraduate credit hours (junior status), students enrolled or desiring enrollment in education coursework beyond 12 hours credit MUST be admitted to the Teacher Education Program. Students must be admitted to Teacher Education prior to enrollment in upper level teacher education courses.

**Note:** Continuous assessment procedures are used to document and systematically monitor student progress through each program in order to determine the degree to which students have internalized and can demonstrate proficiency with the Kentucky Teacher Standards. The eligibility portfolio is formally assessed during the student teaching semester. For additional information and requirements, each student should see his/her advisor.

**GRADE POINT AVERAGE REQUIREMENTS:**
Grade point averages are reviewed during three checkpoints: admission to teacher education (see Requirements for Admission to Teacher Education), admission to student teaching (requires a 2.75 average overall; a 2.75 average in content area; a 2.75 average in professional education) and at the time of completion/graduation (2.75 overall).
c) COM 161 or HON 165 with a “B” or higher
   d) EDU 180 or equivalent course with a “B” or higher

6. Schedule an admission to teacher education interview with academic advisor.
7. Submit application in Recruiter. Admission will only be granted following a successful review by
   Teacher Education Services.

NOTE: Students who have not been admitted to Teacher Education will not be eligible to enroll
in upper level courses that specify admission to teacher education as a prerequisite.

Student Teaching

**To be admitted to student teaching**, students must meet these requirements.

1. Gain admission to Teacher Education.
2. Attend an Admission to Student Teaching orientation.
3. Formally apply for admission to student teaching two semesters before they plan to student teach.
   Applications are initiated during student teaching orientations.
4. Complete the supplemental items required for student teaching in Recruiter. See the Teacher
   Education Services homepage- Student Resource Links – Help Documents
5. Earn and maintain GPA > 2.75 in major/areas, professional education, and overall.
6. Demonstrate teaching ability during clinical experiences.
7. Document completion of 200 or more field hours and required components.
8. Complete all major courses and specialty areas to attain senior, post-bac, or graduate status.
9. Complete all required professional teacher education courses (EDU 180, EDU 280, EDU 380,
    EDU 480 or equivalents) with a “B” or higher.
10. File a valid and current medical examination, including a TB risk assessment within six months
    of student teaching.
11. Complete a criminal records background check and a Child Abuse and Neglect check.
12. Supply TES with additional information upon request (e.g. transcripts, course exception forms,
    etc.).

General Requirements for Kentucky Certification

Graduates who are seeking recommendation for initial Kentucky teaching certification must meet these
requirements.

1. Complete an approved teacher education program including student teaching.
2. File an application for certification (CA-1) with Teacher Education Services at MSU.
3. Obtain passing scores on the PRAXIS II specialty area tests and the appropriate Principles of
   Learning and Teaching Test (PLT).
4. Complete all applicable computer literacy and applications requirements.
5. Earn a bachelor’s degree.
6. Pay certification fee to Kentucky Department of Education/Office of Educator Licensure and
   Effectiveness (formerly EPSB).
7. Send an official transcript to Office of Educator Licensure and Effectiveness (formerly EPSB).

To be recommended for certification in other states, all Kentucky requirements must be met.

**NOTE:** Requirements for Kentucky teacher certification may occur after publication of the
current Murray State University Bulletin. For the most current information, students should check
with their academic advisor.

Student _______________________________  Advisor _______________________________

Date __________________________________  Date ________________________________