**My Degree Map**

**TROY UNIVERSITY**

**College of Education Recommended Academic Plan**

**Biology Education - Program Year 2013-2014**

<table>
<thead>
<tr>
<th>1&lt;sup&gt;st&lt;/sup&gt; Semester/Term 1-2</th>
<th>Hours</th>
<th>2&lt;sup&gt;nd&lt;/sup&gt; Semester/Term 3-4</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Troy 1101 University Orientation</td>
<td>1</td>
<td>ENG 1102/04 Comp/Mod English I#</td>
<td>3</td>
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<tr>
<td>ENG 1101/03 Comp/Mod English I#</td>
<td>3</td>
<td>BIO 1100 Principles of Bio and Lab</td>
<td>4</td>
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<tr>
<td>MTH 1125 Calculus I#</td>
<td>4</td>
<td>AREA IV, Group 2 course option**</td>
<td>3</td>
</tr>
<tr>
<td>AREA II, Group 4 course option**</td>
<td>3</td>
<td>ART 1133* or MUS 1131* or DRA 2200</td>
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<tr>
<td>ART 1133* or MUS 1131* or DRA 2200</td>
<td>2</td>
<td>IS 2241 Computer Concepts/Applications</td>
<td>3</td>
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<tr>
<td>AREA IV, Group 2 course option**</td>
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<tr>
<td><strong>TOTAL</strong> 16</td>
<td><strong>TOTAL</strong> 15</td>
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<tr>
<th>3&lt;sup&gt;rd&lt;/sup&gt; Semester/Term 1-2</th>
<th>Hours</th>
<th>4&lt;sup&gt;th&lt;/sup&gt; Semester/Term 3-4</th>
<th>Hours</th>
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<tbody>
<tr>
<td>AREA II, Group 3 literature course option</td>
<td>3</td>
<td>MTH 2210 Applied Stats</td>
<td>3</td>
</tr>
<tr>
<td>CHM 1142/lab Gen Chem I/lab</td>
<td>4</td>
<td>COM 2241 Fundamentals of Speech</td>
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<tr>
<td>History Course from AREA IV</td>
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<td>CHM 1143/lab Gen Chem II/lab</td>
<td>4</td>
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<tr>
<td>BIO 1101/lab Organismal Bio/lab</td>
<td>4</td>
<td>BIO 2220/lab Prin Cell Bio/lab</td>
<td>4</td>
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<tr>
<td>AREA IV, Group 2 course option**</td>
<td>3</td>
<td>BIO 3310 Professional Educator</td>
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<td><strong>TOTAL</strong> 17</td>
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<tr>
<th>5&lt;sup&gt;th&lt;/sup&gt; Semester/Term 1-2</th>
<th>Hours</th>
<th>6&lt;sup&gt;th&lt;/sup&gt; Semester/Term 3-4</th>
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<tbody>
<tr>
<td>AREA V Physics course/lab</td>
<td>4</td>
<td>AREA V Physics course/lab</td>
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<tr>
<td>BIO 2229/lab Gen Ecology/lab</td>
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<td>CHM 3343/lab Organic Chem II/lab</td>
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<tr>
<td>CHM 3342/lab Organic Chem I/lab</td>
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<td>BIO 3320/lab Genetics/lab</td>
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<td>PSY 3303 Educational Psychology</td>
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<td>EDU 3305 Microcomputers in Education</td>
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<td>SPE 3340 Diverse Learners</td>
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<td><strong>TOTAL</strong> 18</td>
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<tr>
<th>7&lt;sup&gt;th&lt;/sup&gt; Semester/Term 1-2</th>
<th>Hours</th>
<th>8&lt;sup&gt;th&lt;/sup&gt; Semester/Term 3-4</th>
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<tr>
<td>Approved biology/lab elective</td>
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<td>Approved biology/lab elective</td>
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<tr>
<td>Approved biology/lab elective</td>
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<tr>
<td>Approved biology/lab elective</td>
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<td>BIO 4481 Methods/Mat Sec Teacher</td>
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<tr>
<td>SED 4000 Classroom Management</td>
<td>3</td>
<td>EDU 4471 Curriculum/Instruction Delivery</td>
<td>3</td>
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<tr>
<td>SED 3346 Educational Assessment</td>
<td>3</td>
<td>RED 4484 Language/Literary IV</td>
<td>3</td>
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<tr>
<td><strong>TOTAL</strong> 18</td>
<td><strong>TOTAL</strong> 17</td>
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<thead>
<tr>
<th>9&lt;sup&gt;th&lt;/sup&gt; Semester/Term 1-2</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>SED 4454 Intern Seminar Secondary</td>
<td>3</td>
</tr>
<tr>
<td>BIO 4474 Internship Biology Education</td>
<td>9</td>
</tr>
<tr>
<td><strong>TOTAL</strong> 12</td>
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</tbody>
</table>

**TOTAL HOURS REQUIRED FOR DEGREE** 145

*Indicates an international scope class (6 hours required).

**A sequence is required in either literature or history.

#Indicates courses which require approved placement scores.

Courses in **BOLD** require a grade of C or above.

A minimum of 120 hours is required for all baccalaureate degree programs.

At least 50% of required coursework must be earned at a senior institution.

At least 25% of the credit hours must be completed in residency with Troy University.

At least 12 semester hours of residency must be completed in each major field of study.

A minimum GPA of 2.75 and in each major is required to graduate.

**NOTE:** Please consult the College of Education or current catalog for other requirements not covered in this document.

Approved by the AEC 03/14
General Studies: Biology Education (63 Hours)

Complete all 6 subrequirements

A: AREA I:

**ENG-1101 Comp and Modern English I** 3 hours
**ENG-1102 Comp and Modern English II** 3 hours

B. AREA II:

Group 1: Take COM 2241 Fundamentals of Speech 3 hours
Group 2: Select two courses from *ART 1133, *MUS 1131
Or DRA 2200 4 hours
Group 3: Take three semester hours from the following:
*ENG 2205, *ENG 2206, ENG 2211, ENG 2212,
ENG 2244, ENG 2245, 3 hours
Group 4: Take three semester hours from the following:
*CLA 2260, *ENG 2205, *ENG 2206, ENG 2211,
ENG 2212, ENG 2244, ENG 2245, *FRN 1101,
*GER 1121, *GRK 1111, IDS 2200, *LAT 1131,
PHI 2203, PHI 2204, *ANT 2280 or *SPN 1141

C. AREA III:

Take the following courses:

**MTH 1125 Calculus I** 4 hours
CHM 1142/L General Chemistry with Lab 3/1 hours
BIO 1100/L Principles of Biology/Lab 3/1 hours

D. AREA IV:

Group 1: Take three hours from the following: HIS 1101,
HIS 1102, HIS 1111, HIS 1112, *HIS 1122
or *HIS 1123 3 hours
Group 2: Take nine semester hours from the following:
*ANT 2200, *ECO 2251, *ECO 2252, *GEO 2210,
HIS 1101, HIS 1102, HIS 1111, HIS 1112, *HIS 1122,
*HIS 1123, IDS 2200, LDR 1100, *POL 2260,
POL 2241, PSY 2200, PSY 2210 or SOC 2275 9 hours

E. AREA V:

Take the following courses:

BIO 1101/L Organismal Biology/Lab 3/1 hours
CHM 1143/L General Chemistry II/Lab 3/1 hours
IS 2241 Computer Concepts & Applications 3 hours
TROY 1101 University Orientation 1 hour

F. AREA V Continued:

Take one of the following series:
PHY 2252/L252 and PHY 2253/L253 OR
Biology Education - Program Year 2013-2014 - (43 hours)

A. Biology Major - Take the following courses:

- BIO 2220/L Principles of Cell Biology/Lab   3/1 hours
- BIO 2229/L General Ecology/Lab   3/1 hours
- BIO 3320/L Genetics/Lab   3/1 hours
- CHM 3342/L Organic Chemistry I/Lab   3/1 hours
- CHM 3343/L Organic Chemistry II/Lab   3/1 hours
- MTH 2210 Applied Statistics   3 hours

B. Botany: Take one botany course with the corresponding lab:

- BIO 3325/L, BIO 3326/L or BIO 4425.   3/1 hours

C. Zoology: Take one Zoology course with its corresponding lab:

- BIO 3307/L, BIO 3308/L, BIO 4405/L, BIO 4420,
- BIO 4432/L, BIO 4445/L, BIO 4446/L, BIO 4447/L,
- BIO 4448/L, or BIO 4471/L   3/1 hours

D. Ecology/Environmental: Take one of the following ecology/

- Environmental courses with its corresponding lab.

- BIO 2202/L, BIO 4413/L, BIO 4416/L, BIO 4421/L,
- or BIO 4479/L   3/1 hours

E. Physiology/Cell/Molecular: Take one of the following

- physiology/cell/molecular biology courses with
- corresponding lab: BIO 3347/L (3/1), BIO 3348/L (3/1),
- BIO 3372/L (3/1), BIO 3382/L (3/1), BIO 3386/L (3/1)
- BIO 4414/L (3/1), BIO 4430/L (3/1), BIO 4433/L (3/1),
- BIO 4451/L (3/1), BIO 4478/L (3/1), BIO 4480/L (3/1),
- or BIO 4482/L (3/1).   3/1 hours

F. Major Electives: Take one upper-level (3000-4000)

- Adviser-approved biology course and its corresponding
- lab. Grade of ‘C’ required in all courses in the major.   3/1 hours

Education Major – (39 hours)
Minimum grade of ‘C’ required in all course work in the major.

Take the following courses:

- EDU 3305 Microcomputers in Education   3 hours
- EDU 3310 The Professional Educator   3 hours
- EDU 4471 Curriculum & Instruction Design   3 hours
- PSY 3303 Educational Psychology   3 hours
- RED 4484 Language & Literacy Learning IV   3 hours
- SED 3346 Educational Assessment   3 hours
- SED 4400 Classroom Management   3 hours
- SPE 3340 Diverse Learners   3 hours
- BIO 4481 Methods and Materials   3 hours
- SED 4454 Internship Seminar   3 hours
Every reasonable attempt to ensure accuracy has been made. Some courses (such as developmental or pre-requisite courses) are not reflected in this degree map. Completion of degree requirements is based on the specific catalog year for each student.