BIOLOGY SECONDARY EDUCATION MAJORS CURRICULUM SHEET
2008-2010
Virginia Teacher Licensure, grades 6-12

Lower Division General Education Requirements (33-39 hours)

**Written Communication**: 6cr  
ENGL 110C and  
ENGL 211C (previously 111C), or ENGL 231C (previously 131C) 3 ____  

**Fine and Performing Arts**: 6cr  
ARTH 121A, ARTS 122A, MUSC 264A, DANC 185A, THEA 241A 3 ____

**Oral Communication** 3cr  
COMM 101R, 103R, 112R or approved course in major 103H, 104H, 105H 3 ____

*Satisfied by BIOL 405W 3 ____

**History**: 6cr  
HIST 101H, 102H, 103H, 104H, 105H 3 ____

**Literature**: 3cr  
ENGL 112L, 114L (previously 144L), FLET 100L 3 ____

**Mathematics**: 3cr  
ENGL 111C 3 ______

**Philosophy**: 3cr  
PHIL 110P, 120P, 150P 3 ____

**Social Science**: 6cr  
AAST 100S, ANTR 110S, COMM 200S, CRJS 215S, ECON 200S, 201S, 202S, GEOG 100S, 101S, POLS 100S, 101S 3 ____

**Foreign Language**: 0-6cr  

**Required Biology Core Courses (23 hours):**

BIOL 115N General Biology I 4 ____
BIOL 116N General Biology II 4 ____
BIOL 115N-116N must be passed with a C (2.0) or better to continue.

Upon completion of Biology 116N, students must complete the following Biology courses, some of which are pre- or co-requisites for upper level biology courses (see catalog descriptions for individual courses). Biology 293 (Cell Biology) and Biology 303 (Genetics) have Math 162, (Precalculus) and Chemistry 211 (Organic Chemistry) as co-requisites. Biology 303 (Genetics) also has STAT 130M (Elementary Statistics) as a pre-requisite. Biology 405W should be taken during the junior or senior year, but not before a student has completed the rest of the core and at least two 300- or 400-level electives. All core courses must be passed with a C (2.0) or better.

BIOL 292 Evolution 3 ____
BIOL 291 Ecology 3 ____
BIOL 293 Cell Biology 3 ____
BIOL 303 Genetics 3 ____
BIOL 405W Senior Seminar 3 ____ (previously 2 credits)

**Prerequisites for 405W**: Complete the required core courses listed above AND two Biology electives listed below (300-400 level).

**Required Biology Elective Courses (16 hours):**

Students must complete 16 hours of Biology electives, to include one approved course from each of the areas listed below. A minimum of 3 courses must include a laboratory component. Elective courses must be passed with a C (2.0) or better. Note that course offerings in each of these areas may change; students should check the University Catalog for current offerings. Substitutions of electives are possible but must be approved in advance by the Chief Departmental Advisor in Biology.

Human Anatomy: BIOL 250  
Zoology: BIOL 307, 401, 420, 422, 424, 458, 441  
Botany: BIOL 308  
Microbiology: BIOL 315

**Non-Biology Math and Science Requirements (27 hours):**

CHEM 121N/122N (previously 115N) College Chemistry I 4 _____
CHEM 123N/124N (previously 116N) College Chemistry II 4 _____
CHEM 211& 212 Organic Chemistry I Lecture and Lab 5 _____
OEAS 110N or 111N 4 _____
PHYS 111N 4 _____
MATH 200 or 163/211 3/4 _____
STAT 130M or STAT 310 3 _____
### Professional Education (33 hours)

**Take Praxis I after completion of English 110/111 and College Algebra**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ECI 301 (now TLED) Foundations &amp; Introduction to Assessment in Education</td>
<td>3</td>
</tr>
<tr>
<td>ECI 360 (now TLED) Classroom Management and Discipline</td>
<td>2</td>
</tr>
<tr>
<td>ECI 408 (now TLED) Reading and Writing in Content Areas</td>
<td>3</td>
</tr>
<tr>
<td>ECI 430 (now TLED) PK-12 Instructional Technology (satisfies CS requirement)</td>
<td>3</td>
</tr>
<tr>
<td>ECI 454 (now STEM) Developing Instructional Strategies - Science</td>
<td>3</td>
</tr>
<tr>
<td>ESSE 313 (now SPED) Fundamentals of Human Growth &amp; Development</td>
<td>3</td>
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<tr>
<td>ESSE 406 (now SPED) Students w/Diverse Learning Needs in the Gen. Ed. Classroom</td>
<td>3</td>
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<tr>
<td>ECI 483 (now TLED) Practicum Seminar in Education (Coreq with ECI 454)</td>
<td>1</td>
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<tr>
<td>ECI 485 (now TLED) Student Teaching**</td>
<td>12</td>
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- Students must have a passing score on the Praxis I or equivalent SAT or ACT score as established by the VA State Board of Education and acceptance into the Teacher Education program (includes acceptance into the Department of Biological Sciences).

- Students must be admitted into an approved teacher education program to qualify for ECI 454 - Instruction Strategies - Science. (now STEM 454)

- Students must complete an approved program in teacher education (i.e., all coursework with no grade less than C in the content area (Biology courses) and C- in the professional education core. and a GPA of at least 2.75 overall in the major and in the professional education courses.

- Students must have passing Praxis II scores on biology content knowledge #235 (155) and the Virginia Communication and Literacy Assessment (VCLA) during the Senior Seminar in order to qualify for ECI 485 Student Teaching. (now TLED 485)

- To graduate, students must successfully complete all coursework, the University Writing Requirement, the University Senior Assessment, and the Biology Department Assessment (if offered). In addition to meeting other requirements of the University, students must also complete a minimum of 25% of the total number of credits required for the degree (30 credits in a 120 credit degree program) through on- or off- campus instruction. This must include a minimum of 12 credit hours of upper level courses in the department of the declared major. The responsibility of meeting the requirements for a degree rests with the student.

- Students, not advisors, are ultimately responsible for knowing whether or not they have completed their degree requirements. Students are expected to use the on-line Degree Evaluation system to monitor their progress each semester, identify problems as they arise, and seek assistance in a timely fashion.

- Students are expected to read, understand, and follow the policies and regulations outlined in the University Catalog for the year in which they enrolled at ODU.

- Exceptions to the curriculum requirements, policies, and procedures outlined on this sheet must be petitioned to and approved by the Chair of the Department of Biological Science and appropriate program director of the Darden College of Education.

- Due to changing University requirements, national accreditation standards, and Commonwealth licensure regulations, the programs in the Darden College of Education are under constant revision. Any changes resulting from these factors supersede the program requirements described in the catalog. Students are encouraged to obtain current program information from their advisors and the Darden College of Education website at [http://education.odu.edu](http://education.odu.edu).

Biology Advising Contact: MGB 236 Advising Office (cosadvising@odu.edu)

Education Advising Contact: Ms. Nola Nicholson (nnichols@odu.edu)

Licensure Information: 757-683-3348