### LOWER DIVISION GENERAL EDUCATION

#### A. Skills

<table>
<thead>
<tr>
<th>Discipline</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>Language and Culture</td>
<td>0-6</td>
</tr>
<tr>
<td>Information Literacy &amp; Research</td>
<td>3</td>
</tr>
<tr>
<td>CS 121G (Satisfied in the Professional Education core by TLED 430 for teacher education)</td>
<td></td>
</tr>
</tbody>
</table>

#### B. Ways of Knowing

<table>
<thead>
<tr>
<th>Discipline</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Human Creativity</td>
<td>3</td>
</tr>
<tr>
<td>Interpreting the Past</td>
<td>3</td>
</tr>
<tr>
<td>Literature</td>
<td>3</td>
</tr>
<tr>
<td>Philosophy &amp; Ethics</td>
<td>3</td>
</tr>
<tr>
<td>The Nature of Science</td>
<td>4</td>
</tr>
<tr>
<td>Impact of Technology</td>
<td>3</td>
</tr>
<tr>
<td>Human Behavior</td>
<td>3</td>
</tr>
</tbody>
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### Departmental Requirements

**BIOL 115N-116N** must be passed with a C or better to continue in the program. Upon completion of **BIOL 115N-116N**, students must complete the following core of biology courses, some of which are prerequisites or co-requisites for upper-level biology courses (see course descriptions). **BIOL 293** and **303** have **MATH 162M** and **CHEM 211** as pre- or co-requisites. **STAT 130M** is a prerequisite for **BIOL 303**. **BIOL 405W** should be taken during the junior or senior year. Core courses must be passed with a C (2.0) or better.

- **BIOL 115N General Biology I** 4
- **BIOL 116N General Biology II** 4
- **BIOL 291 Ecology** 3
- **BIOL 292 Evolution** 3
- **BIOL 293 Cell Biology** 3
- **BIOL 303 Genetics** 3
- **BIOL 405W Biology Seminar** 2

#### Biology electives

Students must choose 16 elective hours at the 300 level or above from the courses offered by the Department of Biological Sciences. Three of the courses must have a laboratory component, as listed in the catalog. Students may use four credits at the 200 level to satisfy the elective requirement and may use no more than six credits of unstructured courses to satisfy the requirement (See below). Elective courses must be passed with a grade of C (2.0) or better unless they are specified as Pass/Fail courses, in which case they must be passed (P).

#### Unstructured Courses

Students may take advantage of several non-classroom experiences offered by the Department of Biological Sciences and may receive elective credit for these experiences. These include **BIOL 368** (Internship), **BIOL 369** (Practicum), **BIOL 497** (Undergraduate Research) and **BIOL 498** (Independent Study). See the chief departmental advisor for more information.

#### Non-biology degree requirements:

- **CHEM 121N/122N Found of Chemistry I** 4
- **CHEM 123N/124N Found Chemistry II** 4
- **CHEM 211 Organic Chemistry** 3
- **CHEM elective 200-level or higher** 5
- **PHYS 111N-112N or** 4
- **OEAS 110N or 111N and 112N** 4
  (satisfies Nature of Science requirement)

- **MATH 200** 3
- **STAT 130M** 3
Biology Major with Teaching Licensure in Biology

Students pursuing a biology major with teaching Licensure complete the core sequence (BIOL 115N-116N and BIOL 291, 292, 293, 303, 405W) and 16 credit hours of electives at the 300-level or above to include three lab courses. Students may use 4 credits at the 200-level to meet their upper-division requirement. Electives must include one approved course each in botany, zoology, microbiology and human anatomy and physiology (see Chief Dept. Advisor for details). Non-biology requirements are CHEM 121N/122N-123N/124N, 211, and 212; OEAS 110N or 111N and PHYS 111N; MATH 200; and STAT 130M. TLED 430 satisfies the Information Literacy and Research requirement.

Admission.

To be admitted to the teacher education program, students must have a 2.75 grade point average in the major, the professional core and overall, with no grade less than a C- in the content area and the professional core, and have passed Praxis I or achieved State Board of Education-approved SAT or ACT scores. Although students may enroll in a limited number of education courses, passing Praxis I scores or approved equivalent test scores must be on file with the Office of Teacher Education Services and Advising prior to enrollment in any education practicum course or courses in developing instructional strategies. It is recommended that students take the Praxis I exam prior to, or during, enrollment in TLED 301.

Continuance.

Students must maintain an overall grade point average of 2.75 and a 2.75 in the academic major. Biology courses must be passed with a C (2.0) or above. The remaining requirements for the major and in the professional education core must be completed with no earned grade less than C- for continuance in the College of Education. In order to obtain a Virginia teaching license, all teacher education students must attain passing scores on the appropriate Praxis II specialty area tests. A list of the passing scores established by the Virginia Department of Education is available on the Virginia Department of Education website or the Office of Teacher Education Services and Advising, Education 152. The Praxis II Biology Content Examination and the Virginia Communications Literacy Assessment (VCLA) must be passed before the candidate may begin the teacher internship. Passing Praxis II and VCLA scores must be on file in the Office of Teacher Education Services and Advising prior to student teaching.

Graduation.

Requirements for graduation include passage of the Exit Examination of Writing Proficiency; completion of the Senior Assessment; a minimum 2.75 grade point average overall, in the major, and in the professional education core, with no grade less than a C in the major and C- in the professional education core; and complete a minimum of 128 credit hours.

NOTE: 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 here or in the University catalog. Students should obtain current program information from their academic advisor and the Darden College of Education website at http://www.education.odu.edu.

The Professional Education core courses are as follows:
TLED 301 Foundations & Assessment ___3__________
TLED 360 Class Mgmt and Discipline ___2__________
TLED 408 Read/Write in Content ___3__________
TLED 430 PK-12 Instructional Tech ___3__________
(satisfies information literacy and research requirement)

STEM 454 Developing Instructional Strategies: Science ___3__________
SPED 313 Fundamentals-Human Growth and Development ___3__________
SPED 406 St w/Diverse Learning ___3__________
TLED 483 Practicum Sem. in Edu ___1__________
(corequisite with STEM 454)
TLED 485 Student Teaching ___12__________

UPPER DIVISION GENERAL EDUCATION

Teacher Education Core satisfies this requirement.
Option A. Approved Minor, 12-24 hours; also second degree or second major.
Option B. Cluster, 9 hours (3 hours may be in the major area of study.)
Option C. Two Upper Division courses from another college (6 hours).
Option D. Any two 300-400 level courses outside the College of Sciences. (6 hours)

Requirements for graduation (non-teacher education tracks) include a minimum cumulative grade point average of 2.00 overall and in the major, 120 credit hours, passage of the Exit Examination of Writing Proficiency, completion of Senior Assessment, and completion of the Biology Department Senior Assessment when offered.