

**UNDERGRADUATE NEW PROGRAM  
MAJOR OR MINOR OR CONCENTRATION  
*Within an Existing Degree Program\****

*\*For a new degree program, in addition to EPC program and course forms you must complete all procedures and forms found in the "SCHEV Guidelines."*

**Proposal for a New Program**

**Department** Biological and Environmental Sciences **Submission Date** 5 March 2012

**Degree** B.S. **Program Name** Integrated Environmental Sciences

Major ☒ Minor ☐ Concentration ☐

Semester of Implementation Fall 2013

I. Outline of the proposed major, concentration, licensure, or certificate including catalog copy.

Please see the accompanying "Outline of the proposed major."

II. New courses which will be proposed as part of this program. Be sure to submit a separate proposal for each new course using appropriate forms. EASC 211 (Environmental Geology), EASC 212 (Atmospheric Science), ENSC 101 (Introduction to Integrated Environmental Sciences), ENSC 201 (Integrated Environmental Investigations), ENSC/GEOG 340 (Global Environmental Issues), ENSC 380 (Introduction to Environmental Law and Policy), ENSC 401 (Environmental Planning and Management), ENSC 402 (Environmental Decision Making), ENSC 492 (Internship in Environmental Science), ENSC 496 (Research in Environmental Science)

III. Rationale for the program: It is critical to the future of our world to prepare citizen leaders who have an understanding of environmental issues from an integrated interdisciplinary perspective. This major will provide strong foundational knowledge in natural and social sciences and will heavily emphasize the skills and integrated critical thinking that is necessary for making decisions about complex environmental issues. Many universities have recognized the growing need for environmental scientists and have created new majors in this area. Longwood's mission to prepare citizen leaders will be enhanced by a major in this area that will be vitally important in the future lives of our students. Though some other Virginia institutions do offer environmental science degrees, Longwood University is the only public institution that historically serves southside Virginia. Furthermore, the major that we are proposing will fill a unique niche in providing an integrated interdisciplinary approach that will include practical, hands-on experience throughout the entire curriculum. With a strong tradition in laboratory, field, and experiential learning, Longwood is ideally suited for

offering this major. Moreover, the Department of Biological and Environmental Sciences houses faculty with diverse areas of expertise in natural and social sciences and is strongly integrated with the Department of Chemistry and Physics that shares the same building. Thus, the network structure and much of the necessary expertise are already in place to offer this integrated major. (A more detailed rationale for the major is outlined in the required SCHEV paperwork.)

#### IV. Resource Assessment

A. Estimate additional staff requirements for this program. In the Department of Biological and Environmental Sciences, two additional full-time faculty positions are necessary to teach new courses and to compensate for the shifting of biology teaching staffing when current faculty teach courses in the new major. Both of these positions have already been funded through the approved Six-year Plan. Additional adjustments in teaching assignments will be necessary to offer some courses in this new major, but this will not require additional positions.

B. Estimate the amount and cost of equipment, library resources, computer hardware and software, and other resources that will be required to carry out this program.

\$1000.00 for library resources (as determined in consultation with Dean Palmer).

V. Anticipated enrollment in program after five (5) years. 82 students (as documented in SCHEV paperwork)

#### VI. Affected Licensure

Where teaching licensure may be affected, the licensure officer should be notified.

Licensure Officer\_\_\_\_\_ Date Notified\_\_\_\_\_

**SIGNATURE PAGE**  
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Department Biological and Environmental Sciences

Program Name Integrated Environmental Sciences

VII. Approvals

	Date received	Date approved	Signature
1. Department Curriculum Committee Chair	_____	_____	_____
2. Department Chair	_____	_____	_____

If the proposed course could have an impact on other departments or programs, the appropriate affected chairs or program directors should be notified of the proposed changes.

Departments/programs that might be affected

Chemistry and Physics  
Mathematics and Computer Science  
Sociology, Anthropology, & Criminal Justice  
Communication Studies & Theatre  
History, Political Science, & Philosophy  
Health, Ath. Training, Recr, & Kinesiology  
Economics  
Liberal Studies Program

Individuals contacted and date contacted

Melissa Rhoten 1/27/12  
David Shoenthal 1/31/12  
Brian Bates 1/27/12  
Eric Koger 1/27/12  
David Coles 1/29/12  
Chuck Blauvelt 1/27/12  
Bennie Waller 1/27/12  
Pat Lust 3/25/12

3. College Dean	_____	_____	_____
4. College Curriculum Committee	_____	_____	_____
5. Educational Policy Committee	_____	_____	_____
6. Faculty Senate	_____	_____	_____
7. Date received by Registrar	_____		

**All curriculum proposals/changes are processed in the date order received. In order to be included in the next academic year's catalog, all paperwork must be submitted no later than:**

**February 1<sup>st</sup> to the College Curriculum Committee**  
**March 1<sup>st</sup> to the Educational Policy Committee (EPC)**

**Submission within the deadlines does not guarantee processing in time for the next academic year's catalog. For new degree programs that must go to SCHEV for approval, entry into the catalog**

may not occur for at least another year.

*Revised May 2010*