1. Title of Program.
   Bachelor of Arts in Environmental Biology

2. Rationale for offering this program.

   The Biology Department proposes offering both B.A. and B.S. degrees in Environmental Biology in an effort to provide targeted degrees for our students interested in entering the fields of basic and applied ecology and evolution. In addition to providing the necessary course work for pursuing graduate degrees, many internships, and temporary and entry level research positions are advertised as desiring applicants pursuing degrees in ecology, environmental biology, conservation, or related fields. This condition places our students majoring in biology at a real or perceived disadvantage that reduces our ability to attract and retain students interested in environmental biology. Many of our competitors offer degrees or emphases similar to these, including KU, KSU, Emporia State University, Fort Hays State University and Wichita State University. This condition places Washburn University at a disadvantage. Our ability to attract and retain students interested in basic and applied ecology is expected to increase with the implementation of these new programs.

3. Exact proposed catalog description.

   The B.A. degree in Environmental Biology is designed to meet the needs of students expressing an interest in environmental biology and prepares them to be competitive as applicants to graduate programs. This degree is built around a biology core emphasizing the principles of ecology and evolution with an orientation towards natural resources, conservation, and other environmental concerns.

   REQUIREMENTS FOR ENVIRONMENTAL BIOLOGY (EB) MAJORS:
Environmental Biology Majors must take a 23-hour core consisting of:

- BI 102 General Cellular Biology (5)
- BI 103 General Organismal Biology (5)
- BI 310 Ecology (4)
- BI 333 General Genetics (4)
- BI 340 Evolutionary Biology (3)
- BI 390 Biology Seminar (1) - Capstone Course
- BI 395 Biology Research (1) - Capstone Course

Elective Supportive Organismal Courses for Environmental Biology Majors:
(Students must complete a total of 15 additional credit hours of biology electives with a minimum of 10 hours from the following list and at least 1 course from the Field Electives section)

- BI 105 General Botany (4)
- BI 110 General Zoology (4)
- BI 301 General Microbiology (4)
- BI 303 Invertebrate Zoology (4)
- BI 305 Parasitology (4)
- BI 328 Plant Anatomy and Physiology (3)
- BI 330 Animal Physiology (4)

Field Electives Section
- BI 300 Field Biology (3)
- BI 302 Entomology (4)
- BI 315 Vertebrate Zoology (4)
- BI 324 Systematic Botany (3)

The following non-biology courses are required of Environmental Biology majors:
- MA 140 or MA 151
- One year of physics with lab (PS 261/PS 262 or PS 281/PS 282)
- One year of general chemistry with lab (CH 151/CH 152)
- One semester of organic chemistry with lab (CH 340/CH 342)

The Bachelor of Arts (B.A.) degree in Environmental Biology requires a minimum of 38 hours in Biology: the 23-hour Environmental Biology core and 15 additional BI hours as outlined above. The B.A. degree in Environmental Biology requires 124 credit hours to graduate.

4. List and financial implications.

With a modest prediction of three B.A. students over the next 5 years (beginning 2014), we might predict a potential modest increase of $44,082 in tuition revenue with little to no negative financial impact. The proposed degree program will utilize existing faculty members, courses, and teaching laboratories. Please see the attached pro forma document.
# Program Details

**New Program Name:** B.A. Degree in Environmental Biology (124 total credit hours)

## Revenue Table

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## Total Revenue

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## Ongoing Expenses Table

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</table>

- 1st Faculty Member
- Benefits (25%)
- 2nd Faculty Member
- Benefits (25%)
- 3rd Faculty Member
- Benefits (25%)
- (Continue to add as needed)
- Secretary
- Benefits (25%)
- Adjunct Faculty
- Student stipends
- Supplies
- Marketing
- Travel
- Online Course Development
- Professional Development
- Accreditation/Membership
- Support Materials
- Total Expenses

## Total Net Revenue

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## One-time Startup Costs Table

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</tbody>
</table>

- Furniture
- Office Equipment
- Computer/Software
- Other Electronic Hardware
- Renovation
- Program Equipment
- Initial Accreditation Costs
- Program Development
- Membership
- Release Time to Develop Consultant
- Site Visit
- Inservice/Preservice Prep

## Footnotes: