



## DEGREE GUIDE FOR THE COLLEGE OF ARTS AND SCIENCES

### B.A.: BIOLOGY with Research Option -- 2009-2011

Page 2 of 2 (see reverse)

The Research Option is a new, challenging track within the biology major. Its goals are to make research experiences available to more students, to show students the value of science education outreach through experiential learning, and to provide out students with a more solid foundation in biological mathematics and science communication. It consists of a number of courses and experiences designed to prepare students to pursue research in some venue (graduate school, industry, government, medical school, or science education) after graduation. Students can enter the program at anytime, although it is anticipated that most students will enter the program as sophomores and juniors.

To complete the Research Option, the following six requirements are added to the requirements for the B.A. in Biology.

1. Participate in a significant research experience. This means working on an independent research project for the equivalent of four credits. We encourage students to do research for 7-8 months if possible (e.g., summer followed by fall semester). With prior permission, this requirement can be fulfilled at a different institution. The credits themselves are not necessary (for example, a student may be paid from a faculty's grant or by the Gonzaga Summer Research Program (GSRP) in the summer).

Requirement Met: \_\_\_\_\_ Date: \_\_\_\_\_  
Advisor's Signature

2. Present research findings at a scientific meeting.

Requirement Met: \_\_\_\_\_ Date: \_\_\_\_\_  
Advisor's Signature

3. Attend research seminars (BIOL 484; 1 credit – already listed as a requirement on the reverse) and attend at least three department seminars per year in addition to those in BIOL 484.

Requirement Met: \_\_\_\_\_ Date: \_\_\_\_\_  
Advisor's Signature

4. Take a college calculus course (MATH 148: Survey of Calculus or MATH 157: Calculus and Analytic Geometry I – already listed as a requirement on the reverse). Also, complete a statistics course or biological mathematics course (already listed as a requirement on the reverse).

Requirement Met: \_\_\_\_\_ Date: \_\_\_\_\_  
Advisor's Signature

5. As part of the requirement for BIOL 499, biology's capstone course, students in the Research Option program will write up their research results. This course is already required of all biology majors but will have a variety of writing options for different students.

Requirement Met: \_\_\_\_\_ Date: \_\_\_\_\_  
Advisor's Signature

6. Participate in science education outreach (*Science in Action!* Or GIEOP) for 15 hours one semester.

Requirement Met: \_\_\_\_\_ Date: \_\_\_\_\_  
Advisor's Signature