Instructions for Degree/Major Revisions:

- Complete this form when the proposed changes will impact the words, numbers, or symbols as presented in the current catalog copy (often referred to as "changing the footprint of the catalog"). Changes to Program Admission Requirements and Additional Graduation Requirements should be included.
- Catalog copy is available at http://www.fgcu.edu/catalog/. Scroll down to "Academic Programs" on the left navigation bar. Select Undergraduate Programs. Select the Program. Select "Print Program Details" in the upper right corner. Copy and paste catalog copy into a Word document. Turn on the tracking function (be sure that both additions and deletions appear in the tracking). Update the catalog year and make edits. Save the document as a Word file.
- When the proposed changes are approved by the College Curriculum Team, the College Administrator will send the following to Peggy Raynor in OCI by October 31 for review by the University Undergraduate Curriculum Team (UUCT):
  - An electronic MS Word version of the tracked catalog via email.
  - A color hard copy of tracked catalog copy and the Degree/Major Revision form via campus mail.
  - An electronic MS Word version of a degree curriculum map via email (please refer to question #13 below for further explanation).
- If changes are for courses only and there is no impact on the catalog copy, this revision form is not necessary. When these "stand alone" courses have been approved by the College Curriculum Team and noted in CMS, the CMS College Administrator should send a list to Peggy Raynor in OCI. The same October 31 deadline applies.
- All changes to courses are completed via the Curriculum Management System (CMS)
  https://midas.fgcu.edu/acadaff/cmsg/default.asp
- Reminder: The prefix/number for a new course is handled one way in the catalog copy and another in CMS. In the catalog copy, identify a new course with the suggested title, suggested prefix and course level, plus XXX (e.g., ART 4XXX). When final approval for the course prefix/number is received from Statewide Course Numbering System, the catalog copy will be updated. In CMS, a new course is requested by entering the suggested title and suggested prefix/number with no XXX. See instructions in CMS for selecting an appropriate suggested prefix/number.

1. **Degree/Major Title:**
   
   B.S. Biology

2. **Contact person:** Marilyn Cruz-Alvarez
   
   College: Arts and Sciences
   Department/School: Biological Sciences
   Telephone: 239-7237

3. **Briefly describe the proposed revision(s).**
   
   1. Addition of 2 new courses: PCB4115C Molecular Techniques in Behavioral Biology and MCB4223C Food Microbiology.
   
   2. Change the prerequisites for BOT403C Plant Physiology and PCB3414C Behavioral Ecology, and BSC 4910C Senior Project Research in Biology.
   
   3. Change the designation of ISC3120 Scientific Process to a C course.
   
   4. Increase the choices available for students to satisfy the requirements for the Organismal and Ecological concentration. Students will be able to take BOT 3015C The Lives of Plants and Algae instead of ZOO 3713C Vertebrate Form and Function, and they will be able to take BOT 4503C Plant Physiology instead of PCB 3723C Comparative Animal Physiology.
   
   5. Remove and add electives.

4. **Effective date:** Fall 2014

Degree/Major Revision Proposal – Revised – 3-26-13
Changes are effective in the fall of the year. Exceptions are approved only in unusual circumstances with adequate justification.

5. **Briefly explain the rationale for the proposed revision.**

Link the proposed revision to assessment and institutional effectiveness activities (feedback from students, market demands, program evaluation, resource allocation, etc.).

1. New courses are added to satisfy demand and interest of students based on the expertise of faculty members.

2. The prerequisites for BOT4503C Plant Physiology and PCB3441C Behavioral Ecology have been changed to better reflect the need of students’ background to be successful in these courses. Organic Chemistry II (CHM2211C) has been removed as a prerequisite for Plant Physiology. General Ecology (PCB3043C) has been added as a prerequisite for Behavioral Ecology. The prerequisite to BSC4910C Senior Project Research in Biology has been changed to allow students in the B.S. Biology accelerated program to take this course without taking PCB 3023C General Ecology or ZOO 3713C Vertebrate Form and Function, which are not required for this major.

3. The change is requested jointly with other departments to better reflect the activities carried out in this course.

4. The students will have the choice to study animals or plants. The two new choices still cover organisms from an evolutionary perspective or physiological aspects.

5. The number of upper division electives in Biology has increased based on the expertise of new faculty members. Upper division electives that are redundant with other already available in the B.S. Biology degree (BSC4905 Directed Independent Study/Research in Biotechnology, and BSC4941 Internship in Biotechnology) have been removed from the list of electives. Electives that do not have BSC 1010C Gen Bio I and BSC1011C Gen Bio II as prerequisites (EVS 4814C Environmental Toxicology) or have not been taught recently (MCB 4507 Virology, Mycology and Parasitology) have also been removed. At this time courses have not been terminated because they are required for the Biotechnology degree, are from a different department or there is an expectation that as the increase in the number of students stabilizes and more faculty are hired, these courses will be taught again.

New courses (MCB 4223C Food Microbiology, and PCB 4115C Molecular Techniques in Behavioral Biology) or courses that were already electives for other programs in the Department (BSC 4933 Current Topics in Biology, EVR 4933 Current Topics in Environmental Studies, MAC 2312 Calculus II, and PCB 4303C Limnology and Wetlands), have been added to the list of electives.

6. **Describe additional library resources needed to support this revision? Explain rationale for response, even if answer is None.**

None. There are adequate library resources since there are no major changes to the program.

7. **Describe additional faculty resources needed to support this revision? Explain rationale for response, even if answer is None.**

None. New courses reflect areas of expertise of current faculty. The change of ISC 3120 Scientific Process to ISC3120C will require increase in contact hours. However, since faculty in 3 different departments (Biological Sciences, Marine and Ecological Sciences, and Chemistry and Physics) take turns teaching this course, the change will have a minimal impact on these departments.

8. **Describe additional technology, facility, laboratory, or other resources needed to support this revision? Explain rationale for response, even if answer is None.**

None. The new courses overlap current courses in terms of resources requirements.

9. **What impact will the proposed revision have on other colleges, units, or programs?**

None. The C designation for ISC312C Scientific Process is requested jointly by the Departments requiring this course for their programs.

The number of Biology students taking EVS4814C Environmental Toxicology, which has been removed as an elective from the program, is minimal and should not impact the Marine and Ecological Sciences department.

10. **New courses:**

   - [ ] No new courses are required.

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New courses are needed. List prefix/number/title below. Complete a Course Add Form for each from the Curriculum Management System - https://midas.fgcu.edu/acadaff/scns/.

- MCB4223C Food Microbiology
- PCB4115C Molecular Techniques in Behavioral Biology

11. Change to existing courses:

☐ No existing courses are being changed.
☒ Existing courses are being changed. List prefix/number/title below. Complete a Course Change Form for each from the Curriculum Management System - https://midas.fgcu.edu/acadaff/scns/.

- BSC4910C Senior Project Research in Biology - change in prerequisites
- BOT4503C Plant Physiology - change in prerequisites
- ISC3120 Scientific Process - change designation to a C course
- PCB3414C Behavioral Ecology - change in prerequisites

12. Termination of existing courses:

☒ No existing courses are being deleted from the FGCU course inventory.

☐ Courses are being terminated. List prefix/number/title below. Complete a Course Terminate Form for each course from the Curriculum Management System - https://midas.fgcu.edu/acadaff/scns/.

13. What impact will the proposed revision have on the progression or sequencing of courses in this degree program?

Please provide evidence in the form of a degree curriculum map, a listing of required and restricted elective courses in the major and their prerequisites or other forms appropriate for your program (consult with College Curriculum Team Chair for additional information).

14. Catalog copy:

See Instructions above.

15. Additional remarks:

______________________________
Department/Program Chair/Director

______________________________
College Curriculum Committee Chair

______________________________
College Dean

Date 3/8/2013
Date 11/11/13
Date 11/11/13

Does another department or unit provide related exercise or offer similar courses? ☐ No ☐ Yes (If yes, have the other department complete the following. Attach a separate sheet if needed.)

☐ Supports this proposal ☐ Does not support this proposal ☐ Defers Recommendation

Authorizing signature: ___________________________ Date ________________

Comments:

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