PROPOSED CHANGES TO THE BACHELOR OF SCIENCE AND ARTS, BIOLOGY MAJOR, IN THE COLLEGE OF NATURAL SCIENCES SECTION IN THE UNDERGRADUATE CATALOG 2016-2018

Type of Change  ☒ Academic Change
☐ Degree Program Change (THECB\(^2\) form required)

Proposed classification  ☒ Exclusive  ☐ General  ☐ Major

1. **IF THE ANSWER TO ANY OF THE FOLLOWING QUESTIONS IS YES, THE COLLEGE MUST CONSULT LINDA DICKENS, DIRECTOR OF ACCREDITATION AND ASSESSMENT, TO DETERMINE IF SACS-COC APPROVAL IS REQUIRED.**

- Is this a new degree program?  Yes ☐ No ☒
- Does the program offer courses that will be taught off campus?  Yes ☐ No ☒
- Will courses in this program be delivered electronically?  Yes ☐ No ☒

2. **EXPLAIN CHANGE TO DEGREE PROGRAM AND GIVE A DETAILED RATIONALE FOR EACH INDIVIDUAL CHANGE:**

A. **Update of calculus requirement to add M 408R, and to require both M 408N and 408S. Addition of statement to clarify that M 408R is a terminal course and may not be used as a prerequisite to other calculus courses.**

Rationale: The change was made to standardize mathematics required across all biology degrees so that students could more easily change their minds about which option to pursue without retaking different introductory courses specific to an individual degree.

B. **Removal of BIO 373 as an alternative to BIO 370.**

Rationale: Like Genetics, every biology degree holder should have a thorough understanding of evolution, as such knowledge is necessary for every other upper-division course.

C. **Change major from 9 hours of upper-division biology, including coursework from 3 of the 4 areas, and including a lab, to 1 upper-division course from each of 4 lists, including 1 upper-division lab.**

Rationale: This change was made to conform with all of the biology degrees that have a breadth requirement. The course area designations were updated to reflect modern ways of thinking about biology education.

D. **Reduce additional biology requirements to the first half of a calculus-based physics sequence.**

Rationale: The change was made to standardize physics required across all biology degrees so that students could more easily change their minds about which option to pursue without retaking different introductory courses specific to an individual degree.

E. **Add back BIO 206L or 208L.**

Rationale: Correction to requirements. Lower-division BIO lab was removed in error when Dean’s Office prepared legislation.

F. **Remove BIO 326M from the list of Cellular, Developmental, and Molecular Biology.**

Rationale: BIO 326M is instructed for public health and medical laboratory science students only. All other biology related majors will take BIO 326R from this catalog forward.

3. **THIS PROPOSAL INVOLVES (Please check all that apply)**

☐ Courses in other colleges  ☐ Courses in proposer’s college that are frequently taken by students in other colleges  ☐ Flags

☐ Course in the core curriculum  ☒ Change in course sequencing for an existing program  ☐ Courses that have to be added to the inventory

☐ Change in admission  ☐ Requirements not explicit in the
requirements (external or internal) catalog language (e.g., lists of acceptable courses maintained by department office)

4. SCOPE OF PROPOSED CHANGE
   a. Does this proposal impact other colleges/schools?  Yes ☐ No ☒
   b. Do you anticipate a net change in the number of students in your college?  Yes ☐ No ☒
   c. Do you anticipate a net increase (or decrease) in the number of students from outside of your college taking classes in your college?  Yes ☐ No ☒
   d. Do you anticipate a net increase (or decrease) in the number of students from your college taking courses in other colleges?  Yes ☐ No ☒

If 4 a, b, c, or d was answered with yes, please answer the following questions. If the proposal has potential budgetary impacts for another college/school, such as requiring new sections or a non-negligible increase in the number of seats offered, at least one contact must be at the college-level.

   How many students do you expect to be impacted?

Impacted schools must be contacted and their response(s) included:
   Person communicated with:
   Date of communication:
   Response:

   e. Does this proposal involve changes to the core curriculum or other basic education requirements (42-hour core, signature courses, flags)? If yes, explain:

If yes, undergraduate studies must be informed of the proposed changes and their response included:
   Person communicated with:
   Date of communication:
   Response:

f. Will this proposal change the number of hours required for degree completion? If yes, explain:

5. COLLEGE/SCHOOL APPROVAL PROCESS
   Department approval date: April 6, 2015
   College approval date: May 27, 2015; updates approved Month, Date, 2015
   Dean approval date:

PROPOSED NEW CATALOG TEXT:

Biology

Major

1. Mathematics:
   a. Mathematics 408C, 408R, or 408N and 408S. Students who intend to take additional calculus coursework should begin the sequence with 408C or 408N.
   b. Statistics and Data Sciences 328M.

2. Primary science:
   a. Biology 206L or 208L, 206L or 208L, 311C, 311D, and 325, or 315H and 325H.
   b. One of the following: Biology 320 or 344.
   c. One of the following: Biology 370 or 373.
d. Complete one course from each of the following:


3. Secondary science: 12 hrs
   a. Chemistry 301 or 301H, 302 or 302H, and 204.
   b. Complete one of the following: Six additional semester hours of majors-level coursework chosen from astronomy, biology, chemistry, computer science, environmental science, geological sciences, mathematics, marine science, neuroscience, nutrition, public health, physics, statistics and data sciences, and systems biology.
      i. Physics 317K and 117M (recommended)
      ii. Physics 303K and 103M
      iii. Physics 301 and 101L
General Faculty) ("no protest" period is 10 working days); major legislation must be submitted to the General Faculty for adoption ("no protest" period is 10 working days).

The proposed text should be based on the text of the current catalog available at http://www.utexas.edu/faculty/council/pages/catalog_chgs/catcopy.html.

Strike through and replace (with underlines) only the specific language to be changed. Do NOT use “track changes!” For questions on completing this section, please contact Victoria Cervantes, fc@austin.utexas.edu, 471-5936 or Brenda Schumann, brenda.schumann@austin.utexas.edu, 475-7654.