Undergraduate Minor in Biology

College of Science
School of Life Sciences
Department of Integrated Biology

Response to review
Erica Curry
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March 30, 2017

Proposed Effective Term: Fall Term 2017

Below are responses to the review provided by Gary Beach from Office of APAA. Note, any items struck out have been updated in the document. All other responses are found in red text boxes, titled, "**UPDATES:**". Please also note that the effective date has changed to fall 2017, in order to accommodate the change in BI/BB 314 (see update for item 8).

(1) p.1 ~~**Undergraduate Minor**~~
Observation/Suggestion: I realize that there is no Graduate Minor in Biology. However, since not all individuals who may be reviewing this proposal know this for a fact, it is best to state clearly that this is an Undergraduate Minor proposal.

(2) p.2 ~~**Baccalaureate Core Courses**~~
Observation: Ultimately, this list of courses will be entered into the online Catalog. Baccalaureate Core Courses are identify with an asterisk "*". It is redundant to use both an asterisk and the abbreviation "(BCC)".
Recommendation: Add an asterisk where one is needed (a few courses were not identified as being a Baccalaureate Core Course), and delete all of the redundant (BCC) references.

(3) p. 2 **TOTAL Credit Hours Required to Complete the Undergraduate Minor**
Observation: The total credit hours required to complete the Undergraduate Minor in Biology are not the same when the On-Campus (Current) and the Ecampus (Proposed) versions are compared. This is not a problem since the core courses are the same and the differences lie with the elective course selection.
Recommendation: Change the total credit hour number for the OSU-Main (Current) version of the program from 28-31 to **28-32** and the (Proposed) Ecampus version from 28-31 to **29**.

UPDATE: The program is listed at 28-32 credits in the catalog http://catalog.oregonstate.edu/MinorDetail.aspx?id=125**.** For the Ecampus curricular

review, however, the current format will be maintained to allow for the future development of courses into the minor.

~~(4) p. 2 **Program Core Course**~~
Observation: It would be helpful to add the total number of credit hours that are associated with the required core courses.
Suggestion: Add (16) to both "Current" and the "Proposed".

~~(5) p. 2 **Prerequisites for the Two Biology Sequence Courses**~~
Observation: The list of prerequisite courses applies to both BI 205 and BI 206 (listed) and to BI 212 and BI 213 (NOT listed).
Recommendation: Add the following "; BI 212 and BI 213".

(6) p. 2 **Elective Total Credit Hours**
Observation: The total credit hours associated with the elective categories appears to be incorrect.
Recommendation: Change the credit hours listed…
Current: from 16-19 to **12-16**
Proposed: from 16-19 to **13**

UPDATE: The Department of Integrated Biology will be responsible for submitting the Category II proposal to correct the total number of credit hours required for the electives found in the five required elective categories; i.e., change from 16-19 to 12-16 (on campus, current version) and 16-19 to 12-16 (online, proposed version). The Ecampus offering will maintain alignment as that is updated and processed. For the Ecampus curricular review, however, the current format will be maintained to allow for the future development of elective courses into the minor.

~~(7) p. 2 **Total Credit Hours for Each Elective Category**~~
Observation: It would be helpful to add the total credit hours for each of the five elective categories.
Suggestion: For example, for the Cell and Molecular Biology category add (3-4) to the current version of the undergraduate minor and (4) to the proposed online version.
The recently approved minor at http://catalog.oregonstate.edu/MinorDetail.aspx?id=125 was approved without credit subtotals for each elective area here and in our majors.

(8) p. 2 ~~**Prerequisites for BB/BI 314**~~
Observation: The prerequisite courses listed for BB/BI 314 is incorrect. It would appear that the correct sequence is BI 211, BI 212, and BI 213. If this is the case, then the total number of credit hours necessary to complete the undergraduate minor would be increased by 9 credit hours, or a total of 38 credit hours.

UPDATE: BB 314/BI 314 has a curricular proposal in place to move BI 314 (H) into BB 314 (H), and a second curricular proposal to update the perquisites to include BI 204, 2015, and 206.

(9) p. 2 **Z 348. Human Ecology (3)**

Observation: Z 348 is NOT an approved course.

UPDATE: This was incorrectly listed as Z 348, however, it is BI 348. The document has been updated.

(10) p. 3 **Prerequisites for Z 423**

Question: CH 123 and CH 233 are respectively the third of a three course sequence. Can students complete the perquisite by taking just the third course or do they need to complete all three courses in the sequence? If they are required to complete all three courses, then this too will change the total credit hours required to completed the proposed online delivery of the Undergraduate Minor in Biology by Ecampus.

Response: Chemistry has enforced prerequisites for each term. You cannot take CH 123 or 233 without a C- or better in the previous term (CH 122 or CH 232). Listing the final term is a best practice for this series and has been done in all course proposals as a proxy for the year of Chemistry. Many minors on campus do not list all courses as part of the minor. The language at the top of the minor http://catalog.oregonstate.edu/MinorDetail.aspx?id=125 clearly states that students will need a year of chemistry or more to take some of the courses. This language has been in place for some time and was approved with the other updates to this minor in proposal 92257.

(11) p. 3 **TOTAL CREDITS**

Observation: If the observations noted above are all accurate, then the total credit hours listed for the Undergraduate Minor in Biology, both for the Current and the Proposed versions will need to be changed:

Current: 29-31 to 28-32

Proposed: 28-31 to 29

UPDATE: See update for items 3 and 6.

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glb (3-21-17)