## DOCUMENTS OF THE GENERAL FACULTY

## PROPOSED CHANGES TO THE BACHELOR OF SCIENCE IN BIOCHEMISTRY DEGREE PROGRAM IN THE COLLEGE OF NATURAL SCIENCES CHAPTER IN THE UNDERGRADUATE CATALOG 2018-2020

Dean Linda A. Hicke in the College of Natural Sciences has filed with the Secretary of the Faculty Council the following proposal to change the Bachelor of Science in Biochemistry degree program in the College of Natural Sciences chapter in the Undergraduate Catalog, 2018-2020. The Department of Biochemistry approved the proposal on March 31, 2017; it was approved by the Dean's Scholars Steering Committee on September 27, 2017; and by the Course and Curriculum Committee and Associate Dean David Vanden Bout, on behalf of Dean Hicke, on September 20, 2017. The Secretary has classified this proposal as legislation of general interest to more than one college or school.

The Committee on Undergraduate Degree Program Review recommended approval of the proposal on February 2, 2018, and forwarded it to the Office of the General Faculty. The Faculty Council has the authority to approve this legislation on behalf of the General Faculty. The authority to grant final approval on this legislation resides with the Provost on behalf of the President.

If no objection is filed with the Office of the General Faculty by the date specified below, the legislation will be held to have been approved by the Faculty Council. If an objection is filed within the prescribed period, the legislation will be presented to the Faculty Council at its next meeting. The objection, with reasons, must be signed by a member of the Faculty Council.

To be counted, a protest must be received in the Office of the General Faculty by March 15, 2018.
Alen W. Driehewen
Alan W. Friedman, Secretary of the General Faculty and Faculty Council
The University of Texas at Austin
Arthur J. Thaman and Wilhelmina Doré Thaman Professor of English and Comparative Literature

Distributed through the Faculty Council Wiki site https://wikis.utexas.edu/display/facultycouncil/Wiki+Home on March 1, 2018.

# PROPOSED CHANGES TO THE BACHELOR OF SCIENCE IN BIOCHEMISTRY DEGREE PROGRAM IN THE COLLEGE OF NATURAL SCIENCES CHAPTER IN THE UNDERGRADUATE <br> CATALOG 2018-2020 

| Type of Change | Academic Change <br>  <br> $\square$ |
| :--- | :--- | :--- |
| Proposed classification | $\square$ Exclusive Program Change (THECB form required) |

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 SACSCOC APPROVAL IS REQUIRED.

- Is this a new degree program?
- Is this program being deleted?
- Does the program offer courses that will be taught off campus?
- Will courses in this program be delivered electronically?

Yes $\square$ No $\boxtimes$
Yes $\square$ No $\boxtimes$
Yes $\square$ No $\boxtimes$
Yes $\square$ No $\boxtimes$

## 2. EXPLAIN CHANGE TO DEGREE PROGRAM AND GIVE A DETAILED RATIONALE FOR EACH INDIVIDUAL CHANGE: <br> Option 1, Biochemistry

Remove BCH 339 N from requirement 8 c and reduce number of biochemistry elective courses from three to two.

Reason: The majority of students are not adequately prepared for the computation aspects of BCH 339N even with a prerequisite of programming. The course will become an elective choice for students who are adequately prepared. The number of biochemistry courses are reduced by one in order to accommodate the addition of BIO 344 without changing the number of general elective hours that students take.

Add transcript-recognized minor to options in requirement 11
Reason: The department was unsure whether there would be sufficient transcript-recognized minors across campus when preparing legislation for the 2016-18 catalog. However, there are many options for students now

## Option III, Biochemistry Honors

Reduce number of biochemistry elective courses from three to two
Reason: The number of biochemistry courses are reduced by one in order to accommodate the addition of BIO 344 without changing the number of general elective hours that students take.

Add BIO 344 to the option
Reason: The restructuring of the BS Biochemistry major courses in the 2016-18 catalog eliminated a concentration in molecular biology. Rather than create a new biochemistry course to address this, BIO 344 will be added to fulfill this gap in knowledge.

Change six hours from Fine Arts or Liberal Arts to six hours from Fine Arts and Liberal Arts.
Reason: In practice, the Dean's Scholars Program allows students to take six hours from a single college or a mixture of six hours from both colleges. The change will synch catalog copy to advising practice and eliminate the need for petitions.

## Special Requirements

Standardize language regarding requirements to graduate with Dean's Scholars degree options.
Reason: Since the honors options were added at different times as new BS degrees were created, language began to differentiate between degrees. The Dean's Scholars steering committee voted to establish standard language for all of its options.

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

$\boxtimes$ Courses in other colleges $\square$ $\square$ Courses in proposer's college that are frequently taken by students in other colleges
Course in the core curriculumChange in admission requirements (external or internal)
$\boxtimes$ Change in course sequencing for an existing programRequirements not explicit in the 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?

If yes, then how would you do so?
The original legislation stated that Dean's Scholars must choose six hours from either the College of Liberal Arts (COLA) or the College of Fine Arts (COFA). In practice, students are allowed to count six hours from one of the colleges, or a mixture from the colleges. This change will eliminate the need for petitions in situations where students choose to take a mixture of COLA and COFA coursework. In a constant state, the Dean's Scholars Program has approximately 200 majors.

There is no way to predict how this change will impact the College of Fine Arts and the College of Liberal Arts. Specific courses are not prescribed and the change is to match catalog language to current advising practice. Making an estimate, perhaps ten seats per year distributed across all courses in both colleges may be impacted. Because the number of seats across both colleges is estimated to be so small, the College of Fine Arts and the College of Liberal Arts were not formally consulted for permission to make this change.
b. Do you anticipate a net change in the number of students in your college? $\quad$ Yes $\square$ No $\boxtimes$ If yes, how many more (or fewer) students do you expect?
c. Do you anticipate a net increase (or decrease) in the number of students from outside of your college taking classes in your college? $\quad$ Yes $\square$ No $\boxtimes$ If yes, please indicate the number of students and/or class seats involved.
d. Do you anticipate a net increase (or decrease) in the number of students from your college taking courses in other colleges? $\quad$ Yes $\square$ No $\boxtimes$
If yes, please indicate the number of students and/or class seats involved.
If $4 \mathbf{a}, \mathbf{b}, \mathbf{c}$, or $\mathbf{d}$ 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 nonnegligible 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 (42hour core, signature courses, flags)? If yes, explain: No.

## 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? No.

Note: THECB Semester Credit Hour Change Form required, download from URL: http://www.thecb.state.tx.us/reports/DocFetch.cfm?DocID=2419\&format=doc If yes, explain:

## 5. COLLEGE/SCHOOL APPROVAL PROCESS

Department approval date: March 31,2017
Dean's Scholars approval date: May 10, 2017
September 27, 2017

College approval date: April 20, 2017
September 20, 2017
Dean approval date:

Karen Browning, Associate Chair
Dean's Scholars Steering Committee
Jeffrey Barrick, Biochemistry Honors
Faculty Adviser
Course and Curriculum Committee

David Vanden Bout, Associate Dean for Undergraduate Education

## PROPOSED NEW CATALOG TEXT:

## BACHELOR OF SCIENCE IN BIOCHEMISTRY

\{no change\}

## Prescribed Work Common to all Options

\{no change\}

## Additional Prescribed Work for Each Option

Option I: Biochemistry
5. Mathematics 408C and 408D, or 408N, 408S, and 408M
6. Biostatistics: Statistics and Data Sciences 328M
7. One of the following sequences:
a. Physics $317 \mathrm{~K}, 117 \mathrm{M}, 317 \mathrm{~L}$, and 117 N (recommended);
b. Physics $303 \mathrm{~K}, 103 \mathrm{M}, 303 \mathrm{~L}$, and 103 N ; or
c. Physics 301, 101L, 316, and 116L
8. The following chemistry courses:
a. General chemistry: Chemistry 301 or $301 \mathrm{H}, 302$ or 302 H , and 204 or 317
b. Organic chemistry: Chemistry 320M
c. Biochemistry: Biochemistry 339 F and 369 L , and [three] two additional courses chosen from Biochemistry 339J, 339M, [339N], and 370
d. Physical chemistry: Chemistry 353 or 353 M
e. Analytical chemistry: Chemistry 455
9. One of the following sequences:
a. Biology 311C, 311D, and 325; or
b. Biology 315 H and 325 H
10. Biology 344
[10.] 11. Completion of one of the following:
a. [18] Eighteen additional semester hours of upper-division biochemistry, biology, chemistry, and neuroscience; or
b. A transcript-recognized certificate or a transcript-recognized minor
[11.] 12. Enough additional coursework to make a total of 120 semester hours

## Option III: Biochemistry Honors

5. Breadth requirement: An honors mathematics course, Biology 315 H and 325 H , Chemistry 301 H and 302 H , and three additional semester hours of coursework chosen from honors courses in the college. Credit earned by examination may not be counted toward this requirement.
6. The following chemistry courses:
a. General chemistry: Chemistry 204 or 317
b. Organic chemistry: Chemistry $128 \mathrm{~K}, 128 \mathrm{~L}, 328 \mathrm{M}$, and 328 N ; or $220 \mathrm{C}, 320 \mathrm{M}$, and 320 N
c. Biochemistry: Biochemistry 339F and 369L, and [three] additional courses chosen from Biochemistry 339J, 339M, 339N, and 370
d. Physical chemistry: Chemistry 353 or 353 M
e. Analytical chemistry: Chemistry 455
7. Biology 344
[6.] 8. A section of Undergraduate Studies 302 or 303 that is approved by the departmental honors adviser
[7.] 9. A section of Rhetoric and Writing 309S that is restricted to students in the Dean's Scholars Honors Program
[8-] 10. Chemistry 379 H or 379 H and either a three-semester-hour upper-division research course approved by the departmental honors adviser or a second section of Chemistry 379 H or Biochemistry 379 H
[9.] 11. [24] Twenty-four additional semester hours of coursework approved by the departmental honors adviser.
[10.] 12. Six semester hours of coursework [in] from the College of Liberal Arts [өr] and the College of Fine Arts.
[14.] 13. Enough additional coursework to make a total of 120 semester hours.

## Special Requirements

Students in all Options must fulfill both the University's General Requirements for graduation and the college requirements. They must also earn a grade of at least $C$ - in each mathematics and science course required for the degree, and a University grade point average in these courses of at least 2.00 . More information about grades and the grade point average is given in the General Information Catalog.

To graduate under Option III, students must remain in good standing in the Dean's Scholars Honors Program, must submit an honors thesis approved by the departmental honors adviser, [earn grades of at least $A$ in the departmental research and thesis courses described in requirement 8 above,] and [must] present their research in an approved public forum, such as the college's annual Undergraduate Research Forum. More information about the Undergraduate Research Forum is available at https://cns.utexas.edu. [may be found on the College of Natural Sciences website.]

## Order and Choice of Work

\{no change $\}$

