

## DOCUMENTS OF THE GENERAL FACULTY

**PROPOSED CHANGES TO THE FRONT SECTION OF THE COLLEGE OF NATURAL SCIENCES  
CHAPTER IN THE *UNDERGRADUATE CATALOG 2016-2018***

Dean Linda A. Hicke in the College of Natural Sciences has filed with the secretary of the Faculty Council the following changes to the front section of the College of Natural Sciences chapter in the *Undergraduate Catalog, 2016-2018*. On September 28, 2015, Associate Dean David Vanden Bout approved the proposal on behalf of Dean Hicke. The secretary has classified this proposal as legislation of *exclusive* interest to a single college or school.

The Committee on Undergraduate Degree Program Review recommended approval of the changes on October 18, 2015, and forwarded them 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 UT System.

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 December 4, 2015.



Hillary Hart, Secretary  
General Faculty and Faculty Council

**PROPOSED CHANGES TO THE FRONT SECTION OF THE COLLEGE OF NATURAL SCIENCES  
CHAPTER IN THE UNDERGRADUATE CATALOG 2016-2018**

**Type of Change**      Academic Change  
                            Degree Program Change (THECB 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:**

1. Update of Dean's Office leadership

**Rationale:** Additions, removals, and changes are made to reflect the current leadership in the Dean's Office.

2. Freshman Research Initiative

Indicate that the Freshman Research Initiative is now part of the Texas Institute for Discovery Education in Science (TIDES).

**Rationale:** This reflects a change in where the program is housed in the college.

3. Departmental Honors

Under Biochemistry Departmental Honors, delete Chemistry 379H and replace with Biochemistry 379H.

**Rationale:** A few years ago, the Department of Chemistry and Biochemistry split. This is a cleanup that was missed.

4. Add Public Health Departmental Honors

**Rationale:** The BS in Public Health was established in the 2010-12 catalog and was housed in the School of Biological Sciences. Public Health is moving to the School of Human Ecology. Up this date, public health majors seeking honors enrolled in Biology 379H and earned Biology Departmental Honors. However, some public health projects were not sufficiently biology research oriented to be approved for Biology Departmental Honors. Establishing Public Health Departmental Honors will resolve this issue.

5. Special Requirements of the College

Delete the statement that students must complete in residence at least twenty-four of the last thirty semester hours counted toward the degree.

**Rationale:** The University dropped this residency requirement.

6. Degrees and Programs

Under Bachelor of Arts, Plan I, delete the majors of biochemistry, biology, and human ecology.

**Rationale:** Retirement of these majors is presented in a separate impact statement; these majors need to be deleted here as well.

7. Update a general description of the Bachelor of Science and Arts to include the addition of the transcript-recognized minor outside of science that may be used to fulfill the additional requirement for the degree.

**Rationale:** This is specifically addressed in a separate impact statement for the Bachelor of Science and Arts but needs to be added here if approved.

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

- |  |  |  |
|--|--|--|
| <input type="checkbox"/> Courses in other colleges                               | <input type="checkbox"/> Courses in proposer's college that are frequently taken by students in other colleges                                 | <input type="checkbox"/> Flags   |
| <input type="checkbox"/> Course in the core curriculum                           | <input type="checkbox"/> Change in course sequencing for an existing program   | <input type="checkbox"/> Courses that have to be added to the inventory                                |
| <input type="checkbox"/> Change in admission requirements (external or internal) | <input type="checkbox"/> Requirements not explicit in the catalog language (e.g., lists of acceptable courses maintained by department office) | <input checked="" type="checkbox"/> Other: departmental honors; relocate field of study; miscellaneous |

**4. SCOPE OF PROPOSED CHANGE**

- a. Does this proposal impact other colleges/schools? Yes  No   
If yes, then how?
- b. Do you anticipate a net change in the number of students in your college? Yes  No   
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? Yes  No   
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? Yes  No   
If yes, please indicate the number of students and/or class seats involved.

**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: 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? If yes, explain: **No**

**5. COLLEGE/SCHOOL APPROVAL PROCESS**

Department approval date: Biochemistry Departmental Honors: March 26, 2015

Public Health Departmental Honors: August 12, 2015

College approval date: Biochemistry Departmental Honors: April 24, 2015

Public Health Departmental Honors: September 23, 2015

Dean approval date: September 28, 2015, David Vanden Bout, Associate Dean

**PROPOSED NEW CATALOG TEXT:**

**COLLEGE OF NATURAL SCIENCES**

Linda A. Hicke, PhD, *Dean*

Dean Appling, PhD, *Associate Dean, Research and Facilities*

David A. Vanden Bout-~~[Sacha E. Kopp,]~~ PhD, *Associate Dean, Undergraduate Education*

Shelly Payne, PhD, *Associate Dean, Faculty Affairs*

Daniel F. Knopf, *Associate Dean, Graduate Education*

Catherine A. Stacy, PhD, *Senior Assistant Dean, Strategy and Planning*

Kelsey A. Evans, BA, *Assistant Dean, External Relations*

Jennifer Moon, PhD, *Assistant Dean, Non-tenure Track Faculty* {Note: title is under negotiation with HR}

Ricardo Medina, MBA CPA, *Assistant Dean, Business Affairs and Administration*

Susan C. Harkins, EdD, *Assistant Dean, Texas Interdisciplinary Plan*

Michael W. Raney, PhD, *Assistant Dean, Student Affairs and First-Year Initiatives*

*Assistant Dean, Honors, Research, and International Studies*

[Catherine A. Stacy, PhD, *Senior Assistant Dean, Strategy and Planning*]

**GENERAL INFORMATION**

**Arts and Sciences Education**

**Financial Assistance Available through the College**

**Student Services**

**Study Abroad**

{no changes}

**Student Programs**

**Biology Scholars Program**

**Emerging Scholars Program**

{no changes}

**Freshman Research Initiative**

The Freshman Research Initiative in the Texas Institute for Discovery Education in Science (TIDES) introduces undergraduate students to the world of scientific research at the beginning of their academic careers by integrating a three-semester research experience into coursework required for the degree. All students begin with an introductory research methods course in the first semester, followed by two semesters of work on real, cutting-edge research projects in fields like biology, biochemistry, nanotechnology, molecular biology, astronomy, physics, mathematics, and computer science. After finishing the course sequence, interested students are assisted in joining faculty or other research laboratories for further work.

**Texas Interdisciplinary Plan**

**Undergraduate Research**

**UTeach-Natural Sciences**

**Women in Natural Sciences**

{no changes}

**ADMISSION AND REGISTRATION**

{changes addressed in a separate impact statement}

## ACADEMIC POLICIES AND PROCEDURES

### Academic Standards

#### Mathematics Placement

#### Repetition of a Course

#### Concurrent Enrollment

#### Undergraduates in a Graduate Course

#### Petitions for Degree Requirements

{no changes}

### Honors

{no changes}

### University Honors

#### Graduation with University Honors

#### Dean's Scholars Honors Programs

#### Health Science Scholars Program

#### Polymathic Scholars Program

#### Turing Scholars in Computer Science

#### Honors in Advanced Human Development and Family Sciences Program

#### Honors in Advanced Nutritional Sciences Program

{no changes}

### College Honors

### Departmental Honors

#### Astronomy Departmental Honors

{no changes}

#### Biochemistry Departmental Honors

Majors who plan to seek special departmental honors in biochemistry should apply to the honors adviser for admission to the honors program no later than the beginning of the senior year. A University grade point average of at least 3.00 and a grade point average in biochemistry and chemistry of at least 3.50 are required for admission.

The requirements for graduation with special departmental honors are (1) all requirements for the degree of Bachelor of Science in Biochemistry; (2) two semesters of [~~Chemistry~~] Biochemistry 379H, [~~Chemistry~~] Biochemistry Honors Tutorial Course; (3) a thesis and a presentation based on research; the research topic and the thesis must be approved by the supervising faculty member and the undergraduate faculty adviser; (4) a University grade point average of at least 3.00 and a grade point average in biochemistry and chemistry of at least 3.50; (5) completion at the University of at least sixty semester hours of coursework counted toward the degree; and (6) approval of the honors adviser.

#### Biology Departmental Honors

#### Chemistry Departmental Honors

#### Computer Science Departmental Honors

#### Human Development and Family Sciences Departmental Honors

#### Human Ecology Departmental Honors

#### Mathematics Departmental Honors

#### Nutrition Departmental Honors

#### Physics Departmental Honors

{no changes}

### **Public Health Departmental Honors**

Majors who plan to seek departmental honors in public health should apply to the honors adviser for admission to the honors program no later than the beginning of the senior year. Students are encouraged to apply as early as the beginning of their junior year. A University grade point average of at least 3.0 and a grade point average in public health of at least 3.5 are required for admission.

The requirements for graduation with special departmental honors are (1) all requirements for the degree of Bachelor of Science in Public Health; (2) two semesters of Public Health 379H, *Honors Tutorial Course*; (3) a thesis and presentation based on research and approved by the research supervisor and the honors adviser; (4) a University grade point average of at least 3.0, a grade point average in public health of at least 3.5, and grades of at least a B in Public Health 379H; and (5) completion at the University of at least sixty semester hours of coursework counted toward the degree.

### **Textiles and Apparel Departmental Honors**

{no changes}

## **GRADUATION**

### **Special Requirements of the College**

All students must fulfill the General Requirements for graduation. Students in the College of Natural Sciences must also fulfill the following requirements.

1. The University requires that the student complete in residence at least sixty semester hours of the coursework counted toward the degree. For the Bachelor of Arts, Plan I, these sixty hours must include at least eighteen hours in the major.

~~[2. All University students must complete in residence at least twenty-four of the last thirty semester hours counted toward the degree. For students seeking the Bachelor of Science in Medical Laboratory Science, this rule applies to the academic work completed at the University.]~~

2. ~~[3.]~~ The University requires that at least six semester hours of advanced coursework in the major be completed in residence. Additional hours in the professional or major sequence in many cases are required by individual natural sciences degree programs.

3. ~~[4.]~~ A candidate for a degree must be registered in the College of Natural Sciences either in residence or in absentia the semester or summer session the degree is to be awarded. Graduation applications must be submitted no later than the date given in the academic calendar. The application and supplemental in absentia instructions are available via the College of Natural Sciences Web Site.

### **Applying for Graduation**

{no changes}

## **DEGREES AND PROGRAMS**

The College of Natural Sciences offers the following undergraduate degrees:

1. Bachelor of Science and Arts, with majors in astronomy, biochemistry, biology, chemistry, computer science, human development and family sciences, human ecology, nutrition, mathematics, neuroscience, and physics.
2. Bachelor of Science degrees in astronomy, biochemistry, biology, chemistry, computer science, environmental science, human development and family sciences, mathematics, medical laboratory science, neuroscience, nutrition, physics, public health, and textiles and apparel.

3. Bachelor of Arts, Plan I, with majors in astronomy, [~~biochemistry, biology,~~] chemistry, computer science, [~~human ecology,~~] mathematics, and physics.

The Bachelor of Science and Arts degree offers a cross-disciplinary experience for students who want to combine a strong core science experience with coursework in areas such as business, communications, fine arts, and the liberal arts. Students choose a major comprised of forty-eight hours of science and mathematics. Students choose either a transcript-recognized minor outside of sciences, fifteen hours [~~hour minor~~] in a field of study outside of sciences, or an eighteen to twenty-four hour transcript-recognized certificate such as business foundations, core texts and ideas (studying books that shaped western civilization and thought), food and society, forensic science, pre-health professions, teaching, and textile conservation, among others.

The Bachelor of Science degrees provide deep exploration of science fields for students preparing for graduate science programs and careers as specialized scientists. The degrees contain between eighty to ninety hours of science and mathematics, and typically have multiple specialized options that reflect niche areas of study.

The Bachelor of Arts, Plan I, is shared with the College of Liberal Arts.

A student may not earn more than one Bachelor of Arts, Bachelor of Science and Arts, or Bachelor of Science in Environmental Science degree from the University. A student may earn only one undergraduate degree in a particular field of study from the College of Natural Sciences. A student who holds a Bachelor of Arts or a Bachelor of Science and Arts degree from the University may earn a second major designation in another field of study that will appear on the University transcript.

The title of a graduate's degree appears on his or her diploma, but the major does not. The degree, the major, and the transcript-recognized certificate appear on the graduate's University transcript.

A natural sciences student who wishes to add another major in the college must meet the criterion described in the Admission and Registration section.

### **Applicability of Certain Courses**

#### **Physical Activity Courses**

#### **ROTC Courses**

#### **Courses Taken on the Pass/Fail Basis**

#### **Courses in a Single Field**

#### **College Algebra**

{no changes}

#### **Transcript-Recognized Certificate Programs**

{no changes}

#### **Certificate in Computational Science and Engineering**

{no changes}

#### **Forensic Science Certificate**

{changes addressed in a separate impact statement}

#### **Certificate in Scientific Computation**

{changes addressed in a separate impact statement}

#### **Evidence and Inquiry Certificate**

{no changes}

**Food and Society Certificate**

{changes addressed in a separate impact statement}

**Pre-Health Professions Certificate**

{changes addressed in a separate impact statement}

**Certificate in Textile Conservation and Museum Studies**

{no changes}

**UTeach Natural Sciences Secondary Teaching Option Certificate**

{no changes}

**UTeach Teacher Certification**

{no changes}

**Related Fields of Study**

**Bachelor of Arts, Plan I**

**Bachelor of Science and Arts**

**Bachelor of Science in Astronomy**

**Bachelor of Science in Biochemistry**

**Bachelor of Science in Biology**

**Bachelor of Science in Chemistry**

**Bachelor of Science in Environmental Science**

**Bachelor of Science in Human Development and Family Sciences**

{changes addressed in separate impact statements}

**Bachelor of Science in Interdisciplinary Science**

{deletion addressed in a separate impact statement}

**Bachelor of Science in Mathematics**

**Bachelor of Science in Medical Laboratory Science**

**Bachelor of Science in Neuroscience**

**Bachelor of Science in Nutrition**

**Bachelor of Science in Physics**

**Bachelor of Science in Public Health**

**Bachelor of Science in Textiles and Apparel**

{changes addressed in separate impact statements}

**COURSES (PAGES IN THIS SECTION)**

Change in location of Public Health Course Inventory, see below.

**School of Human Ecology**

Human Development and Family Sciences: HDF

{no changes, other than those made through course inventory}

Human Ecology : H E

{no changes, other than those made through course inventory}



{no changes, other than those made through course inventory}

Nutrition: NTR

Public Health: PBH

Textiles and Apparel: TXA

{no changes, other than those made through course inventory}

**Department of Molecular Biosciences**

Biochemistry: BCH

{no changes, other than those made through course inventory}

{~~Public Health: PBH~~}

**COLLEGE OF NATURAL SCIENCES FACULTY**