College of Science Curriculum Committee

Minutes

April 11, 2019

Hickory 254-H

3:30 pm – 5:00 pm

**Voting**:

☐ Krista Hines ☐David Hoeinghaus ☐ Kris Sherman

☐ Amy Petros ☐ Duncan Weathers

**Non-Voting**:

☐ Chelsea Heidbrink ☐ John Quintanilla ☐ Pieter Allaart

1. Welcome
2. Notes from UCC / Graduate Council
3. Undergraduate Program

A. Department of Biology (for the 20-21 catalog)

i. **BIOC 3622 – Principles of Biochemistry Laboratory** **APPROVED**

<https://unt.curriculog.com/proposal:6218/form>

**Proposal: 2020-21 Change in Existing Course (Not Core Curriculum)**

*Justification: Update title to match that of lecture course.*

B. Department of Mathematics (for the 20-21 Course Deletion)

i. **MATH 2000 Discrete Mathematics APPROVED**

<https://unt.curriculog.com/proposal:6018/form>

**Proposal: Deletion of Course from Core Curriculum**

*Justification: There is no need for it to be in the core since the third science class and Math 1720 count toward the component area option.*

ii. **MATH BS with GRAD TRACK option leading TO MATHEMATICS MS**

<https://unt.curriculog.com/proposal:6341/form>

**Proposal: 2020-21 Add Grad Track Pathway APPROVED**

*Justification: Mathematics has always been a staple of academics, and closely associated areas such as applied statistics, bioinformatics, and computer science are growing.  Students trained in mathematics can work in either the academic or the private sector.  UNT is strong in pure math and in addition has an increasing presence in the more applied mathematical sciences, so we are well-positioned to train students in all areas.*

*Currently over 20% of UNT math graduate students have a BS from UNT (12 out of 58).  This percentage has been steadily growing over the past several years, and it has been over 10% for decades.  A math grad track would make UNT even more attractive to UNT math majors considering graduate school.  We expect it will also encourage some TAMS students to earn an MS here.*

*The undergraduate program offers upper-level electives in the following four areas: analysis, algebra, probability/statistics, and geometry/topology. These also closely match the areas of concentration in the graduate program.*

C Department of Physics

i. **PHYS 4600 Computer Based Physics APPROVED**

<https://unt.curriculog.com/proposal:6301/form>

**Proposal: 2020-21 Change in Existing Course (Not Core Curriculum)**

J*ustification: Change the prerequisite of this course from PHYS 2220 to PHYS 3510 (Physics, Computation, and Software Applications is our Physics).  This change in prerequisite was approved by faculty teaching the PHYS 4600 course.*

*PHYS 3510 is the Physics introduction computer class.  The prerequisites for PHYS 3510 are PHYS 2220 or PHYS 1520.*

D. College of Science Degree requirements **TABLED**

<https://unt.curriculog.com/proposal:5845/form>

**Proposal: 2020-21 Change in Program**

*Justification: The new policy on double majors will ensure a minimal level of effort for obtaining two UNT degrees.*

*The policy on majors and minors from the same department formally states past practices that had not been previously written down.*

IV. Graduate Program

A. Department of Biology (for the 20-21 catalog)

i. **BIOL – 5055 Ornithology APPROVED**

<https://unt.curriculog.com/proposal:5669/form>

**Proposal: 2020-21 New Course**

*Justification: To offer a lecture and lab course sequence on bird biology.*

*This course has been offered for three years as a Special Topics class.  It has been well-received and we do not have a graduate ornithology course on the books.*

ii. **BIOL - 5056 Ornithology Lab APPROVED**

<https://unt.curriculog.com/proposal:5670/form>

**Proposal: 2020-21 New Course**

*Justification: To offer a companion lab to BIOL 5055 Ornithology class.*

iii. **BIOL – 6390 Techniques in Environmental Analysis APPROVED**

<https://unt.curriculog.com/proposal:6224/form>

**Proposal: 2020-21 Change in Existing Course (Not Core Curriculum)**

*Justification: Students need to understand foundations of environmental chemistry prior to learning the advanced techniques for analyzing environmental chemistry samples in the laboratory*

iv. **Biology, PhD APPROVED**

<https://unt.curriculog.com/proposal:3939/form>

**Proposal: 2019-20 Change in Program**

*Justification: Removal of foreign language requirement at request of Tolouse.*

V. Discussion items for the future

A. Internship 4890

B. New Core Assessment

* Applies to the following core courses that currently use communal assessment: BIOL 1000, CHEM 1360, CHEM 1400, CHEM 1410, CHEM 1412, CHEM 1413, CHEM 1415, CHEM 1420, CHEM 1422, CHEM 1423
* Departments should provide the signature assignments (used to assess the core outcomes) to the director of the core, Dr. Wendy Watson ([Wendy.Watson@unt.edu](mailto:Wendy.Watson@unt.edu)) by Tuesday, April 16.  If you do not have signature assignments or have other questions about the process, please contact Wendy and she can assist.

C. Possible Additional Honors Courses. Possible candidates that (1) had at least 12 sections in 2018-19, (2) enrolled at least 350 students in 2018-19, and (3) count toward at least one degree offered by COS:

* BIOC 3622; BIOL 1760, BIOL 2042, BIOL 2311, BIOL 3452, BIOL 3520, BIOL 4510
* CHEM 1430, 1440, 3210, 3220
* MATH 2700, 2730, 3410
* PHYS 1430, 1440, 1730, 2240

D. THECB Fields of Study

* THECB will review the Biology Field of Study in the fall.
* The Mathematics Field of Study was recently enacted: <http://www.thecb.state.tx.us/reports/DocFetch.cfm?DocID=12183&Format=PDF>

E. Discussion (at the request of the Provost): dedicated two-semester Chemistry sequence for Ecology majors

VI. Approval of Minutes