College of Science Curriculum Committee

Minutes

January 14, 2021

<https://unt.zoom.us/j/98746805903>

3:30 pm – 5:00 pm

**Voting**:

☐ Sushama Dandekar ☒ David Hoeinghaus ☒ Kris Sherman

☒ Nirmala Naresh ☒ Duncan Weathers

**Non-Voting**:

☐ Ed Dzialowski ☒ John Quintanilla ☒ Brittany Reiner

**Visitors:**

☒ Brandy Ellis ☒ Gary Glass ☒ John Krueger

1. Welcome
2. Notes from UCC / Graduate Council
3. Undergraduate Program (for 2022-23 catalog)
   1. Department of Biological Sciences
   2. Department of Chemistry
   3. Department of Mathematics
4. **MATH 4080 – Differential Geometry APPROVED**

**https://unt.curriculog.com/proposal:9482/form**

**Proposed: 2022-23 New Course**

*Justification: The proposed course will introduce more geometry content to the undergraduate course offerings. Math 4060 Foundations of Geometry, which covers axiomatic geometry rather than calculus based, is the only real geometry course currently being offered. Differential Geometry is a typical course at other universities but is missing in our department. This course will provide additional experience for students in important topics in undergraduate mathematics education, including linear algebra and multivariable calculus, which are helpful for preparation for the math GRE. As a proof based class which is arguably less abstract and more intuitive than our other proofs based courses such as topology, differential geometry can provide a bridge for math majors from computational courses to more theoretical topics. The course also complements the course Math 3740 Vector Calculus, either as a follow up course for students interested in learning more vector geometry and calculus, or as an alternative for more advanced students who want a more challenging course.*

* 1. Department of Physics
  2. Teach North Texas
  3. Interdisciplinary Program in Applied and Computational Science
  4. College of Science

1. **College of Science degree requirements APPROVED**

[**https://unt.curriculog.com/proposal:9458/form**](https://unt.curriculog.com/proposal:9458/form)

**Proposed: 2022-23 Change in Program**

*Justification: Under point 3 of the BA requirements, we have replaced "College of Science degree requirements with "Bachelor of Arts Breadth Requirement," as this is the correct title of the section heading.*

IV. Graduate Program (for 2022-23 catalog)

1. Department of Biological Sciences
2. Department of Chemistry
3. Department of Mathematics
4. Department of Physics
5. **Physics, PhD APPROVED**

[**https://unt.curriculog.com/proposal:9478/form**](https://unt.curriculog.com/proposal:9478/form)

**Proposed: 2022-23 Change of Program**

*Justification: The Physics faculty has evaluated the means of establishing competency in the core subjects for Ph.D. students, and has decided to change the mode of evaluation from performance in the required core courses AND on a stand-alone Qualifying Exam I (currently administered up to twice a year) to performance in the required core courses or their final exams only.  This change is warranted by the very high correlation between performance on the Qualifying Exam I and performance in the core courses.  Furthermore, it is a return to something very similar to the program requirements that were in place up until 2016.*

1. Teach North Texas
2. Interdisciplinary Program in Applied and Computational Science
3. College of Science

V. Approve the minutes