

**MINUTES OF
UNIVERSITY COMMITTEE ON CURRICULA**

September 28, 2016

Present: K. Basom, R. Christ, C. Christopher, K. Dhanwada, M. Fienup, A. Gabriele, K. Martin, J. Morgan, P. Patton, G. Pohl, G. Rhineberger-Dunn, S. Riehl, M. Timmerman, D. Wallace, M. Wheeler

Absent:, D. Heistad, V. Robinson

Guests: R. Campbell, C. Curran, S. Giese, S. Morgan, D. Mupasiri, C. Nedrow, J. Nie, I. Simet, C. Weeks

The meeting was called to order by Chair Dhanwada at 3:00 p.m. in the Presidential Room, Maucker Union.

I. Welcome and Introductions

UCC Chair Dhanwada welcomed all present. Introductions followed.

II. Approval of Minutes

Chair Dhanwada asked members to review UCC Minutes dated September 21, 2016.

Basom moved, Fienup seconded to approve minutes. The motion was voted on; motion carried and September 21, 2016, minutes were approved with a vote of 7 yes, 1 abstention.

III. Consent Agenda Items

Dhanwada asked if any members of the committee would like to have any items from the Consent Agenda removed for further discussion. There were no changes made.

- Earth Science Courses
 - EARTHSCI 3328 *Fossils and Evolution* (change in terms offered)
 - EARTHSCI 3340 *Oceanography* (change in terms offered)
- Mathematics Courses
 - ACTSCI 3790 *Introduction to Actuarial Science* (change in terms offered)
 - ACTSCI 4739 *Topics in Actuarial Science* (change in terms offered)
 - MATH 1210 *Technology for Elementary School Mathematics Teachers* (dropping course)
 - MATH 1310 *Technology for Secondary Mathematics Teachers* (title change, description change)
 - MATH 3212 *Introduction to Geometry and Measurement for Elem. Teachers* (prerequisite change)
 - MATH 3213 *Topics in Mathematics for Grades K-8* (prerequisite change)
 - MATH 3303 *The Teaching of Middle School/Junior High Mathematics* (dropping course)
 - MATH 3410 *Dynamical Systems: Chaos Theory and Fractals* (change in terms offered)
 - MATH 3600 *Euclidian Geometry* (change in terms offered)
 - MATH 3751 *Probability and Statistics* (change in terms offered)
 - STAT 3751 *Probability and Statistics* (same as MATH 3751, change in terms offered)
 - MATH 4460 *Introduction to Complex Analysis* (change in terms offered)
 - MATH 4500 *Modern Algebra I* (description change)
 - MATH 4501 *Modern Algebra II* (description change)
 - MATH 4641 *Topology I* (change in terms offered)
 - STAT 3771 *Research* (change in terms offered)
 - STAT 3775 *Statistics* (prerequisite change)
 - STAT 4772 *Statistical Computing I* (change in terms offered)
 - STAT 4773 *Design and Analysis of Experiments Manufacturing* (change in terms offered)
- Technology Courses
 - TECH 2060 *Manufacturing* (description change)
 - TECH 2072 *Engineering Materials* (description change)
 - TECH 3024 *Advanced CAD and Modeling* (description change)

- TECH 3142 *Statistical Quality Control* (description change)
- TECH 3147 *Computer Aided Manufacturing* (prerequisite change)
- TECH 3180 *Lean and Sustainable Operations* (title change)
- TECH 3196 *Industrial Safety* (description change)
- Chemistry & Biochemistry Courses
 - CHEM 4220 *Organic Structure Analysis* (prerequisite change)
 - CHEM 4310 *Instrumental Analysis* (prerequisite change)

J. Morgan moved, Basom seconded to approve the items on the consent agenda. Dhanwada called for a vote on the motion to approve the Consent Agenda. Motion carried and the Consent Agenda items were approved unanimously.

IV. Review of the College of Humanities, Arts, & Sciences - Sciences Curriculum Packet (Undergraduate)

Dhanwada suggested that the committee discuss and approve changes by each department rather than approving the entire college's curriculum packet at once.

A. Department of Earth & Environmental Sciences

J. Morgan moved, Fienup seconded to approve the Department of Earth & Environmental Sciences curriculum changes.

- EARTHSCI 3227 *Paleoclimatology* (added course)
S. Morgan provided a brief overview of the course. She noted that this course has been offered previously as an experimental course and was received well.

Fienup questioned whether the Department of Geography was consulted on this course. S. Morgan noted that she had sent a Consultation Form to the department, but had not received it back. She noted that she followed up this past week and will provide the consultation form to be uploaded into the system once it had been received back.

J. Morgan questioned whether this was a required course or an elective course. S. Morgan verified that EARTHSCI 3227 is an elective within the program.

- GEOLOGY-MINOR *Geology Minor* (edited minor)
The committee did not see any issues with the edits made to the minor.

Chair Dhanwada called for a vote on the motion to approve the Department of Earth and Environmental Sciences curriculum changes pending a positive consult with the Department of Geography for EARTHSCI 3227. Motion carried and the curriculum packet was approved unanimously.

B. Department of Mathematics

J. Morgan moved, Fienup seconded to approve the Department of Mathematics curriculum changes.

- MATH 3215 *Mathematics for Elementary Students with Special Needs* (edited course)
Riehl noted that the change in prerequisites would provide more flexibility in scheduling.
- MATH 3425 *Differential Equations* (edited course)
J. Morgan questioned whether the Department of Physics had been consulted. He feels that this could impact Physics' current 3+2 program because students could be impacted by the decreased frequency in times offered. Mupasiri did say that Physics was contacted and was sent information regarding class enrollment. He explained that, in the past couple of semesters, the enrollment was around 7 or 8 students, and the department worries that they would have to cancel sections with enrollment under 10 and thus their decision to offer the course less frequently. It is not a required course for Math majors.

- MATH 4510 *Elementary Number Theory* (edited course)
 Riehl noted that the change in offering frequency was a part of clean-up that the department did to match their offering frequency with their current practice. Riehl confirmed that the department wanted this course offered in Fall and Even Springs. Riehl noted that the change in prerequisite would provide more flexibility in scheduling.
- MATHTCHG-BA *Mathematics Major-Teaching* (edited major)
 Riehl noted that they would like to make a verbal adjustment to their program. She explained that the following note: “Other junior/senior level mathematics courses may be substituted with approval of advisor and Department Head” under “Electives – Select two of the following” could be removed because the addition of two courses fill out that list so the note is no longer needed.

Chair Dhanwada called for a vote on the motion to approve the Department of Mathematics curriculum packet pending a consultation with the Department of Physics. Motion carried and the major was approved unanimously.

C. Department of Technology

J. Morgan moved, Fienup seconded to approve the Department of Technology curriculum changes.

- TECH 3121 *Applied Technology Systems* (edited course)
 Riehl questioned whether the prerequisite of AAS Degree is appropriate. Giese confirmed that not all AAS students will necessarily have TECH 1010 or TECH 1024. J. Morgan recommended that the department strike “or AAS degree” from the prerequisite statement, because students coming in with an AAS Degree will automatically be junior standing at UNI. Wallace noted that Lisa Riedle was present at the GCCC meeting and noted that “or AAS degree” could be stricken from this course.

Additionally, a note will be added to the course and the BAS Technology program description to reflect that students with AAS Degrees may have already satisfied the pre-requisites and will need to be evaluated individually at the department level.

- TECH 3157 *Microcontroller Applications* (edited course)
 A consultation from Computer Science was needed, and that had been submitted prior to the meeting.

Chair Dhanwada called for a vote on the motion to approve the Department of Technology curriculum packet pending revisions to the prerequisites of TECH 3121. Motion carried and the curriculum packet was approved unanimously.

D. Science Education – STEM Education Minor

J. Morgan moved, Fienup seconded to approve the STEM Education Minor.

- STEM-MINOR *STEM Education Minor* (added minor)
 J. Morgan noted that this minor was crafted to meet the minimum requirements put forth from the Iowa Board of Educational Examiners to allow students to expand the areas in which they are able to teach related to the STEM field. He explained that there has been a push from the State of Iowa for more STEM teachers, and he explained that UNI was able to meet all of the requirements of this minor with existing courses already being offered at UNI.

Chair Dhanwada called for a vote on the motion to approve STEM Education Minor. Motion carried, and the STEM Education Minor was approved unanimously.

E. Department of Chemistry & Biochemistry

J. Morgan moved, Fienup seconded to approve the Department of Chemistry & Biochemistry curriculum packet.

- › CHEM 1020 *Chemical Technology* (edited course)

J. Morgan noted that there needs to be consultations with Technology and LAC. Dhanwada noted that the LAC Director determined there was no impact on the LAC.

- › CHEM 4200 *Nanoscience* (edited course)
- › CHEM 4210 *Nanotechnology* (edited course)

J. Morgan noted that this course is cross-listed with PHYSICS 4200 and 4210. He noted that the Department of Physics wants to change this course to match these two Chemistry proposals. Wallace noted that the Office of the Registrar can go back and update the LeapFrog proposal so the Physics courses will match the Chemistry courses.

- › CHEM-MINOR *Chemistry Minor* (edited minor)

Dhanwada noted that they are just changing a footnote.

Chair Dhanwada called for a vote on the motion to approve the Department of Chemistry & Biochemistry curriculum packet. Motion carried and the curriculum packet was approved unanimously.

F. Other Changes – Current Cycle & Curriculum – Associated Changes in Catalog

Simet noted that his department and other science departments around campus are seeing a decrease in BS majors in comparison to BA degrees. He noted that current practice requires an additional 32 credit hours for students to complete a BA and a BS concurrently, completing dual degrees. Patton noted that this is a general education requirement, so it requires input from all colleges across campus, not just one college. Simet noted that it was his intent is to speak to other College Senates in an effort to create discussion moving forward and will bring it back to UCC before going to the Faculty Senate.

Chair Dhanwada stated the next meeting would be **3:00 p.m., October 5 in Room 378, Library**, at which time the COE curriculum packet will be reviewed.

The meeting adjourned at 4:45 p.m.

Respectfully submitted,

Megan Wheeler

Office of the Registrar

mabw

cc: UCC

GCCC

Guests