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## Curriculum minutes 09/14/2016

Curriculum Committee

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## **UMM CURRICULUM COMMITTEE**

2016-17 MEETING #2 Minutes

September 14, 2016, 8:00 a.m., Moccasin Flower Room

*Members Present:* Bart Finzel (chair), Arne Kildegaard, Pieranna Garavso, Peh Ng, Gwen Rudney, Tracey Anderson, Mary Elizabeth Bezanson, Stephen Crabtree, Jennifer Deane, Kellie Meehlhause, Jessica Gardner, Madison Hughes, Christi Perkinson, and Judy Korn

*Members Absent:* Kerri Barnstable

*Visitors:* Nancy Helsper and Jeri Squier

***In these minutes: Revisit of EDP priorities; Science and Mathematics catalog course changes; and Education catalog course changes***

### **Introductions and Announcements**

Finzel suggested an amendment to the minutes of the August 31 meeting, regarding EDP priorities. At that meeting he had stated that there will be no funding available for priority #4 on last year's list: "Proposals that infuse significant Native American content into existing courses or programs." As a result, it was eliminated from the list of priorities. He has since been told that there may likely be some funding, so he suggested amending the proposed priorities to include it as: "#5) [If funding is available] Proposals that infuse significant Native American content into existing courses or programs."

### **Approval of Minutes from Meeting #1, August 31, 2016**

MOTION (Bezanson/Garavaso) to approve the August 31, 2016 minutes, with the addition of EDP priority #5 (see above), and the removal of typos in EDP priority #3. Minutes were approved by unanimous voice vote.

### **Catalog Course Changes**

#### **Division of Science and Mathematics Catalog Course Changes**

##### **Biology (Biol)**

Biol 2101 – Evolution of Biodiversity (revised course)

Biol 2111 – Cell Biology (revised course)

Biol 3121 – Molecular Biology (revised course)

Biol 3131 – Ecology (revised course)

Ng stated that the same change was made to these four courses above: A grade of of C- or better in 2111 has been added to the prereqs for each course to reflect the need for students to have a basic proficiency in topics covered in Biol 1111 to succeed in the course.

Biol 4103 – Cancer Biology (revised course)

Ng stated that this course has two changes. The grading basis is changing from A/F only to Student Option, to be consistent with other biology electives, and it will change from being offered Spring semester to Fall.

Biol 4131 – Vertebrate Natural History (revised course)

Ng stated that the course will change from being offered Spring even years to Fall even years to reflect when the course will be offered in the future.

Biol 4321 – Animal Physiology (revised course)

Ng stated that this course is adding a prereq of 2101 to ensure students are better prepared for the course.

Biol 4351 – Conservation Biology (revised course)

Ng stated that there has been a change in instructors for this course and the course description has been revised to reflect changes made to the emphasis of the material. Biol 3131 is no longer a coreq but will remain a prereq, 3700 is being dropped as a prereq because it has limited the ability of ESci or EnSt majors to enroll in the course.

Biol 1053 – Intro to Insect Biology (deactivated course)

Biol 4311 – Conservation Genetics (deactivated course)

Ng stated that Biology is not planning to teach 1053 and 4311 in the near future.

Biol 4182 – Ecological Developmental Biology (new course)

Ng stated that this is a new 4-credit, 4xxx-level elective in the major. Finzel noted that the course requires that a prereq course be taken at 1xxx, 2xxx, and 3xxx levels. Ng added that it is also true in Math. Anderson stated that in Biology, courses are built on prereqs and students are expected to retain the information. Finzel noted that it does add a difficulty for transfer students who can't take the courses simultaneously.

## **Chemistry (Chem)**

Chem 3411 – Polymer Chemistry (revised course)

Ng stated that an existing 4-credit lecture course (3401) that is coupled to this lab course is being deactivated and split into two 2-credit courses. The coreq for the lab course has changed with this split because the coreq has to be a 2-cr lecture.

Chem 3401 – Polymer Chemistry and the Environment (same as ESci 3401) (deactivated course)

Ng stated that this course is being replaced with two 2-credit courses, providing more flexibility in our curricular offerings.

Chem 1006 – The Chemical World (new course)

Chem 1007 – The Chemical World with Lab (new course)

Ng stated that these are both summer courses that were developed as a result of an EDP grant from last summer. Finzel added that there has been a struggle to offer Science courses in the shorter summer program. Chem 1006 is a 4-credit course that will provide a summer online course offering that meets the Sci Gen Ed requirement. Chem 1007 is a 5-credit course that will provide a summer online lecture and lab course offering that meets the Sci-L Gen Ed requirement. This is the first attempt to try to offer an online lab course. Other institutions have done so, providing a kit that students can use to do lab experiments from home. This course will be considered a hybrid course if some portion of the course such as the lab portion is not done online.

Chem 3406 – Polymer Properties and Characterization (new course)

Chem 3407 – Polymer Synthesis (new course)

Ng stated that these two new 2-credit courses are the result of splitting the deactivated course 3401 into two smaller courses, providing more flexibility in our curricular offerings. Meehlhouse asked if the two course can be taken in tandem, since they will both be offered in the Spring. Ng answered that scheduling will depend upon the student interest and staffing. Finzel noted that it adds welcome flexibility for students.

### **Computer Science (CSci)**

CSci 3402 – Computing Systems: Concepts (revised course)

CSci 3403 – Computing Systems: Practicum (revised course)

CSci 3501 – Algorithms and Computability (revised course)

CSci 4554 – Theory: Cryptography (revised course)

CSci 4555 – Theory: Neural Networks and Machine Learning (revised course)

CSci 4556 – Theory: Computer Graphics (revised course)

CSci 4557 – Theory: Quantum Computing (revised course)

CSci 4654 – Processes, Programming, and Languages: Modern Functional Programing (revised course)

All of the above courses have had their prereq changed to: 1302 or both Math 2202 and Math 3411, CSci 2101 or instr consent. Ng noted that CSCi 3501 has also removed its Gen Ed designator of MSR because the prereq for this course already has that designator.

CSci 3601 – Software Design and Development (revised course)

Ng stated that the prereq of 1302 and the Gen Ed designator of MSR have been removed.

CSci 4454 – Robotics (revised course)

Ng stated that the course description has been updated to accurately reflect the materials covered and to include the possibility of required attendance scheduled outside of the course lecture hours.

CSci 4901 – Senior Seminar (revised course)

Ng stated that the course is increasing from 1 credit to 2 credits to reflect the actual student workload. Finzel asked if the change affects staff workload. The course was initially a 0-credit offering, then a 1-credit offering to give student workload adequate consideration, and now it's increasing to 2 credits. Finzel stated that staffing senior seminars varies greatly across disciplines.

### **Environmental Science (ESci)**

ESci 3401 – Polymer Chemistry and the Environment (deactivated course)

Ng stated that this course is being deactivated.

### **Geology (Geol)**

Geol 2001 – Natural and Unnatural Geologic Hazards (revised course)

Ng stated that this course is adding a prereq of 1001 or 1101. The prereq provides a background in basic geological principles that will enable students to succeed in the course.

Geol 2311 – Forensic Geology (revised course)

Ng stated that a statement has been added to the course description to make it clear for advising purposes that this course does not satisfy the Geology elective requirements for the major. A

friendly amendment was proposed to move the statement to the end of the course description and word it as follows: [Note: this course is for non-majors and does not satisfy the geology elective requirements for the major].

#### Geol 3101 – Structural Geology (revised course)

Ng stated that an option of Math 1021 or 1101 have been added to the prereqs to provide students with adequate background in mathematical concepts to succeed in the course. The statement (3 hrs lect, 3 hrs lab and field trips) was discussed and a friendly amendment was made to clarify the statement was agreed up as (three 50 min lect, one 3-hour lab and field trips).

#### Geol 3401 – Geophysics (revised course)

Ng stated that Geol 3401 has changed when offered from Fall Odd Year to Periodic Fall in order to be responsive to student demand. The statement (4 hrs lect) will change to (three 65-min lect).

#### Geol 3501 – Hydrology (revised course)

Ng stated that the prereq has been changed to Math 1021 or Math 1101 or inst consent. The instructor wants the prereqs to be enforced. The statement (3 hrs lect) will change to (three 65-min lect).

#### Geol 3601 – Introduction to Geochemistry (revised course)

Ng stated that this course is being reactivated after having been deactivated in 2006 to reflect changes in Geology faculty. It is being reactivated now to expand 3xxx-level offerings in Geology. The statement (3 hrs lect) will change to (three 65-min lect).

#### Geol 1012 – Oceanography (deactivated course)

#### Geol 3006 – X-ray Diffraction Techniques (deactivated course)

Ng stated that these two course are being deactivated.

### **Mathematics (Math)**

#### Math 1014 – Intensive Pre-Calculus (deactivated course)

#### Math 2111 (3111) – Linear Algebra (revised course)

Ng stated that 1014 is being deactivated and the course number for 2111 is changing to 3111. The content of the course justifies the course number change that will ensure students who minor in Mathematics will have at least 3 credits of a 3xxx or 4xxx course.

### **Physics (Phys)**

#### Phys 2301 (3004) – Atmospheric Physics (revised course)

Ng stated that the course number for this course is changing from 2301 to 3004. The course number change will ensure students who minor in Physics will have at least 3 credits of a 3xxx or 4xxx course.

#### Phys 2401 (3301) – Atmospheric Physics (revised course)

Ng stated that the course number for this course is changing from 2401 to 3301. The course number change will ensure students who minor in Physics will have at least 3 credits of a 3xxx or 4xxx course.

## **Statistics (Stat)**

### Stat 4901 – Senior Seminar (revised course)

Ng stated that the credits changed from 1 to 2 to better reflect student workload for the course. It is changing to S-N grading to alleviate the difficulty for statistics faculty to find consensus on a letter grade for the presentations. The course description was also enhanced to provide more detail regarding course content. Korn asked if SN grading is allowed in the major. Helsper answered that no SN is allowed unless a course is offered as SN only. This course would be offered SN only.

### Stat 4611 – Statistical Consulting (deactivated course)

Ng stated that this course is being deactivated. A new course, Stat 3901 - Statistical Communication will be proposed to replace it.

### Stat 3901 – Statistical Communication (new course)

Ng stated that as a result of a 2014-15 program review of Statistics, they were advised by the Curriculum Committee to offer a consulting internship. This course will be a 2-credit course in consulting. Rudney mentioned that the only prereq listed is junior status. Does that mean the course is open to non-majors who have taken Stat 1601 – Introduction to Statistics? She stated that she would love to have her future teachers take it if they have had 1601, but only if they are prepared to take 3901. Ng stated that they are trying to make it as open as possible and not be restrictive. Squier noted that the catalog description begins with the words “Required for all statistics majors.” That phrase isn’t used in any other courses. If it’s required for the Stats major, the students will see it in ECAS and in the catalog. She recommended that the sentence be removed from the description. It was accepted as a minor amendment. Ng offered to withdraw the proposal at this time so she could consult with the Statistics faculty and resubmit it at a later meeting.

MOTION (Bezanson/Rudney) to approve the proposed course changes in the Division of Science and Mathematics, with minor amendments and with the withdrawal of Stat 3901. Motion was approved by a vote of 12-0-0.

## Division of Education Catalog Course Changes

## **Education (Edu)**

### Ed 2121 – Introduction to Education (revised course)

### Ed 2601 – Development, Learning, and Teaching (revised course)

Rudney stated that both courses have done some credit swapping. Ed 2121 will go from 3 credits to 4 credits due to redistribution of program standards, and Ed 2601 will go from 4 credits to 2 credits because the course content can be addressed in two credits. Ed 2121 will not be offered in the summer.

## **Elementary Education (EIEd)**

### EIEd 3111 – Practicum I: Field Experience in the Elementary Classroom (revised course)

Rudney stated that this course has been under-credited. She would like to go to 4 credits, but they are increasing it from 1 credit to 2 credits at this time. The students need the additional hours in the field to complete assignments that fulfill state standards.

### EIEd 4201 – Directed Student Teaching in Primary and Intermediate Grades (revised course)

EIEd 4202 – Directed Student Teaching in Primary and Intermediate Grades (revised course)

EIEd 4206 – Directed Student Teaching in PrePrimary Classroom (revised course)

EIEd 4207 - Directed Student Teaching Middle Level Classroom (revised course)

Rudney stated that all of these courses have the same change: passing scores on MTLE basic skills is being replaced by passing scores on basic skills exams. There is such a variety of choices of tests now that MTLE is no longer the only option. This addresses changes in Minnesota licensure requirements.

EIEd 4204 – Directed Global Student Teaching at the Primary and Intermediate Level (revised course)

EIEd 4205 – Directed Global Student Teaching at the Primary and Intermediate Level (deactivated course)

Rudney stated Directed Global Student Teaching is merging into one course (4204) to allow all participants to register in a single course, eliminating confusion in registration.

### **Secondary Education (SeEd)**

SeEd 4104 – Teaching Diverse Learners (revised course)

Rudney stated that the “multiple intelligences” and “disability” are removed from the course description because those topics are addressed in SeEd 4121 and are no longer included in 4104.

SeEd 4201 – Directed Student Teaching in the Middle and Secondary School (revised course)

SeEd 4202 – Directed Student Teaching in the Middle and Secondary School (revised course)

The same change is being made to these courses as in EIEd 4201, 4202, 4206, and 4207.

SeEd 4204 – Directed Global Student Teaching at the Primary and Intermediate Level (revised course)

SeEd 4205 – Directed Global Student Teaching at the Primary and Intermediate Level (deactivated course)

The same change is being made to these courses as in EIEd 4204, and 4205.

### **Sport Studies and Athletics (SSA)**

SSA 1219 – Strength Training (revised course)

Rudney stated this course needed to be increased from 0.5 to 1.0 credits to better reflect the time and work required of the course.

SSA 3172 – Leadership in Sport Organizations (revised course)

Rudney stated that Management is no longer offering Mgmt 3171 so it is being removed as a prerequisite from this course.

SSA 1108 – The Aussie Sport Experience: Culture, Identity and Impact (new course)

Rudney stated that this is a new study abroad summer course supported by grant funds.

MOTION (Ng/Bezanson) to approve the proposed course changes in the Division of Education. Motion was approved by a vote of 12-0-0.

Submitted by Darla Peterson