MINUTES OF
GRADUATE COLLEGE COMMITTEE ON CURRICULA
October 8, 2018


Absent: C. Miller, R. Al-Mabuk

Guest: J. Nie, S. Riehl, S. Morgan, J. Morgan, K. Bleile

The meeting was called to order by Chair Gabriela Olivares at 12:00 p.m. in Lang 115.

I. Welcome and Introductions

GCC Chair Olivares welcomed all present.

II. Approval of Minutes

September 24 meeting minutes were shared electronically. No amendments or corrections were given.

Minutes were approved.

III. Consent Agenda

G. Olivares asked if there were any items on the consent agenda that should be moved to the regular agenda.

G. Pohl asked if TECH 6239, a new course, could be added to the consent agenda. D. Cyphert commented we should maintain current practice and leave new courses on regular agenda.

No items were removed or added to the consent agenda.

IV. Consent Agenda for College of Humanities, Arts and Sciences – Humanities

E. Sutton moved to approve the CHAS -- Humanities consent agenda. G. Pohl seconded.

G. Olivares highlighted that all CHAS-Humanities curriculum proposals were on the consent agenda.

G. Olivares asked if there was any discussion. Hearing none.

Chair Olivares called for a vote on the motion to approve the CHAS-Humanities consent agenda; motion carried and was approved unanimously.

- CSD 4100 Augmentative and Alternative Communication (substantive, title, increasing one credit hour)
- ENGLISH 4775 Applied Writing: Specialized Documents (editorial, change in title and description)
- SPAN 3002 Advanced Spanish for Special Purposes: ____________ (editorial, credits changed to 3 from 2-3)
- SPAN 3008 Introduction to Spanish Linguistics (editorial, credits changed to 3 from 2-3)
- SPAN 4043 Pronunciation and Oral Proficiency (editorial, credits changed to 3 from 2-3)
- SPAN 4045 Translation (editorial, credits changed to 3 from 2-3)
- SPAN 4047 Structure of Spanish (editorial, credits changed to 3 from 2-3)
- SPAN 4062 Spanish American Literature: ____________ (editorial, credits changed to 3 from 2-3)
- SPAN 4063 Peninsular Literature: _________________ (editorial, credits changed to 3 from 2-3)
SPAN 4064 Hispanic Literature:____________ (editorial, credits changed to 3 from 2-3)
SPAN 4066 Topics in Literature and Culture:_______ (editorial, credits changed to 3 from 2-3)
TESOL 4720 Bilingual Education in the Public Schools (editorial, change in title)
TESOL-MA Major in Teaching English to Speakers of Other Languages (TESOL) (Dropped 2 courses, add one course presentation or portfolio now required)
TESOLMODLANG-MA Major in TESOL/Modern Languages (Dropped 2 course; program restatement)

IV. **Regular Agenda for College of Humanities, Arts and Sciences – Sciences**

G. Pohl moved to approve the curriculum packet for sciences within the College of Humanities, Arts and Sciences. D. Cyphert seconded.

Department of Earth and Environmental Science

- EARTHSCI 3365 Hydrology Seminar (new)

Department of Mathematics

- MATH-MA Major in Mathematics (dropping and adding of course options)
- MATHMIDGRD-MA Major in Mathematics for the Elementary and Middle Grades (K-8) (title, dropping and adding of course options)
- MATH 3640 History of Mathematics (substantive, title and description)
- MATH 6209 Mathematics Curriculum and Assessment (new)
- MATH 6216 Number and Operations (new)
- MATH 6225 Teaching and Learning Mathematics (new)
- MATH 6227 Data Analysis, Probability, and Discrete Mathematical Reasoning (new)
- MATH 6236 Equity and Mathematics Education (new)
- MATH 6504 Advanced Linear Algebra (new)

Department of Technology

- TECH-MS Master of Science in Technology (Adding three emphasis: metal casting, electrical engineering, technology management, 30 hours for thesis or non-thesis option)
- TECH CM 3000 Civil Construction (substantive, change in prefix and number, title, change in prerequisite and pre or co requisite at UGRD, term offered)
- TECH CM 3150 Construction Project Planning and Scheduling (substantive, change in prefix and number, title, description, prerequisites at UGRD, frequency)
- TECH CM 4050 Construction Management (substantive, change in prefix and number, change in prerequisite at UGRD, terms offered, frequency)
- TECH CM 4200 Structural Components of Construction (substantive, change in prefix and number, title, description, prerequisite at UGRD)
- TECH CM 4300 Construction Technology and Innovation (substantive, change in prefix and number, title, description, prerequisites at UGRD, terms offered)
- TECH 6239 Foundry Management (new)

Olivares called for discussion.

TECH-MS Master of Science in Technology: J. Nie explained that in the past there were no emphases, the focus was on technology management. The department received requests for specialization in information and electrical engineering technology and metal casting technology. Those areas were added to the new program proposal. J. Nie added that they were only proposing one new course TECH 6239. All other courses which made up the emphases areas were existing courses.
There would be a program core of three required courses, three to four required courses depending on the emphasis selected and then thesis or non-thesis electives. The new program was reduced from 33 to 30 hours. All emphasis areas would be 30 credit hours. C. Nielsen asked if the department thought they may attract more students because of the reduction in hours. J. Nie stated they might possibly attract more international students because they could complete the program in 3 semesters. In addition, the three program core classes, were offered online, so international students might be able to take those courses from their home country and then attend UNI in residence for 1 year. This could be a significant cost savings for international students.

S. Onken asked if there was a concern about needing to offer more courses due to the new emphasis and variety of courses needed. J. Nie stated they would need appropriate enrollment to offer all of the classes but feel that they would have enough demand to offer the classes as needed. If they needed to drop a course due to low enrollment, they could substitute a course. J. Nie mentioned there were currently many 5000 level courses available to students.

S. Onken mentioned the resequencing appears to help faculty meet the demand. J. Nie stated Research Methods would need to be offered each year but moving forward many courses would be offered once every two years rather than once each year which would aid in staffing courses.

TECH CM 3000 G. Pohl asked about title change and number 3125 to 3000. J. Nie confirmed they would not be dropping the graduate level. The department added some details on what graduate students would need to do for the course.

TECH CM 3150 S. Onken stated the requirements for graduate students were very clear and specific which was helpful.

TECH CM 4050 Additional clarification on graduate student requirements was added.

TECH 4200 J. Nie handed documentation to Registrar’s Office on the details that need to be added for graduate student requirements.

G. Olivares asked if department could add the changes or if the Registrar’s Office needed to do it. D. Wallace stated the Register’s Office would add the additional text. G. Olivares would forward the emails with the additional course details on requirements for graduate students.

TECH CM 4300 Information would be added on extra work required for graduate students.

TECH 6239 is a new course in foundry management: G. Pohl stated it was a well-developed course. Justification provided by J. Nie on behalf of S. Giese addressed the interrelated nature of foundry work. G. Pohl reviewed. G. Olivares would forward to be added to the proposal.

MATH-MA S. Riehl addressed there were three programs. One on campus and those students who were primarily working to apply to a PhD program. And two cohorts for practicing teachers which was taught primarily online. The practicing teachers were mostly high school and sometimes community college teachers. Within the two cohorts; one was community college focused, the cohort either teaches at community colleges, want to teach at community colleges, or want to be able to offer community college credit for their classes. The other groups were high school teachers looking for professional development to become better at content and teaching.

S. Riehl explained that the current MATH-MA had 5 one hour courses. Initially it was believed it was a good way to keep in communication with students throughout their program. They discovered it was difficult to staff and was harder for students to be eligible for financial aid. The proposed changes would now have two 3 hour courses, taking 1 hour of content from another course.
The high school teachers wanting to teach at the community college level, would have the option to take more rigorous courses. The high school teachers wanting to focus on professional development could take courses focused on their area to get a deeper understanding of a topic that could specifically benefit their classrooms. The combining of courses would also allow students to complete the program faster. Rather than taking 2 years and 3 summers, the new proposal would eliminate one summer so that students could complete the degree in 2 years and 2 summers.

The committee asked if any courses would be dropped or if the program would to offer all courses in order for current cohort to graduate. S. Riehl explained that all current cohorts would be done in summer 2019, when the new cohorts would be able to start. Riehl added that the courses were not being dropped this curriculum cycle but would no longer be offered and likely would be dropped in the next curriculum cycle.

D. Cyphert asked about enrollment and if there was an expectation it would change. S. Riehl didn’t expect a big change in this program but there was hope to maintain the current numbers of 30 to 35. There was hope the growth would be with the elementary and middle-level program up for discussion next.

MATHMIDGRD-MA Major in Mathematics for the Elementary and Middle Grades (K-8): Originally the program focused on grades 4-8, now it is focused on K-8 professional development.

S. Riehl explained that MATH 6224 and MATH 6226 were not going to be taught and new courses were MATH 6227 and MATH 6225, which would replace those 2 courses. This program would also be shorten by one summer. In the past took 3 summers and 2 years to complete. Moving forward, the program completion would take 2 summers and 2 years, with a reduction of one summer.

In the past, this program also utilized the 1 credit reflective teaching courses which were offered each semester. These were also being combined and changing to two 3 credit courses. The one credit courses would no longer be offered.

The committee asked about the students on the current program and how not offering the courses would affect them. S. Riehl clarified that due to low enrollment, there was not a current cohort for the 4-8/Middle School group but if there were, it would be done by summer 2019.

S. Onken asked about the number of credit hours. It appeared the new program required 30 hours and the previously program was 32 but the supporting text stated there was no change in credit hour requirements. D. Wallace confirmed the credit requirements. S. Riehl stated the new program was ten 3 credit hour courses, and speculated that the additional credits might have been for some optional research credits that students might have taken to be eligible for financial aid. D. Wallace stated she would update the narrative to accurately reflect the program reduction of 2 credit hours.

D. Cyphert had questions on MATH 3640 because it referred to a previous history course but didn’t state what the course was. S. Riehl clarified that they use to offer two history classes, one history to the calculus and then a history after the calculus. History after the calculus was dropped in 2006. History to the calculus was now being edited to adjust some content. S. Riehl added that typically the course was being taken by undergraduate teaching majors. It was not often taken by graduate students.

S. Riehl explained that MATH 6209 was a new course for teaching majors. It was a repackaging of two previous courses: MATH 620- a two credit course and MATH 6208- a one credit class.

MATH 6216 was a new course that was a repackaging of a previous course that was geared toward middle grades (4-8) cohort.
MATH 6225 Teaching and Learning Mathematics was a repackaging of 3 of the 1 hour classes from the previous program.

MATH 6227 Data Analysis, Probability, and Discrete Mathematical Reasoning was a rework of MATH 6224. It involved a renaming to make it more relevant for elementary and middle school grades.

MATH 6236 was one of the other new courses that was a repackaging of previous 1 hour courses.

MATH 6504 Advanced Linear Algebra was a new course which covered abstract algebra. This new course was less dependent on the sequencing of learning the algebraic content of groups and rings. Advanced Linear Algebra was a very popular topic for teachers to deepen their understanding.

S. Riehl added that all cohorts spends 2 weeks on campus. The department considered the on campus component most beneficial for building community. With the new programs there could be 4 groups/cohorts that could share classes to maintain enrollment.

EARTHSCI 3365 Hydrology Seminar (new) S. Morgan stated the class was taught experimentally twice. It would be added to a rotation in the fall with another course. This class was more popular with undergraduates than graduate students but was an option for graduate students.

Chair Olivares called for a vote on the motion to approve curriculum packet for College of Humanities, Arts and Sciences -- Science proposals. Motion carried and changes were approved unanimously.

G. Pohl moved to approve the CHAS -- Sciences consent agenda. D. Cyphert seconded.

Chair Olivares called for a vote on the motion to approve all remaining items on the consent agenda; motion carried and was approved unanimously.

Consent Agenda – CHAS -- Sciences

A. Department of Biology

- BIOL 4129 Genomics (editorial, change in title, description, frequency)

B. Department of Earth Science

- EARTHSCI 3220 Weather Analysis and Forecasting (substantive, change in prerequisite at the undergraduate level)
- EARTHSCI 3330 Geomorphology (substantive, frequency)
- EARTHSCI 3400 Topics in Earth and Environmental Science (editorial, change in title and description)
- EARTHSCI 3410 Field Studies In____________(editorial, description)
- EARTHSCI 3420 Readings in Earth and Environmental Science (editorial, title, description)

C. Department of Mathematics

- MATH 6201 Foundations of Mathematics Education (editorial, title, drop of prerequisite)
- MATH 6212 Foundations of Algebraic Reasoning (editorial, title, drop of prerequisite)
- MATH 6215 Foundations of Geometric Reasoning (editorial, title, drop of prerequisite)

D. Department of Technology
TECH CM 2000 Land, Route, and Construction Surveying (substantive, prefix, number, dropping graduate level, description, prerequisites, terms offered)
TECH CM 2100 Mechanical Systems in Construction (substantive, prefix, number, description, prerequisites/corequisites, dropping graduate level)
TECH 3135 Product Design (substantive, drop of prerequisites)
TECH 3163 Advanced Digital Pre-Media (substantive, drop of prerequisite at UGRD, term offered)
TECH 4110 Manufacturing Process Planning (substantive, change in pre-and-co-requisites at UGRD)
TECH 4154 Computerized Construction Estimating (dropped)
TECH 4158 Graphic Communications Technical Visualization (substantive, terms offered)
TECH 6288 Master Internship/Project (editorial, terms offered)
TECH 6289 Seminar in Engineering and Technology (dropped)
TECH 6294 Technological Evolution and Innovation (dropped)
TECH 6296 Research Design in Technology (dropped)
TECH 6225 Integrated Logistics and Production Operations (editorial, terms offered)
TECH 6235 Material Transformations and Modeling (editorial, terms offered)
TECH 6250 Technology of Productivity Improvement (editorial, terms offered)
TECH 6258 Total Quality Management (editorial, terms offered)
TECH 6275 Advanced Lean and Sustainable Operations (editorial, title change)
TECH 6295 Advanced Management and Supervision Technology (editorial, terms offered, frequency)
TECH 3168 Technology Training Strategies (substantive, term offered)
TECH 4000 Wind Energy Engineering (substantive, term offered)
TECH 6100 Engineering Cost Analysis (substantive, term offered)
TECH 6242 Complex Digital System Design (substantive, term offered)
TECH 6244 Applied Embedded Systems (substantive, term offered)
TECH 6300 Advanced Technical Project Management for Engineering and Technology (substantive, term offered)

E. Department of Science Education

SCIED-MA Major in Science Education (dropped MEASRES 6505, taught internally)
SCI ED 6500 Research Methods in Science Education (substantive, increased 1 hour, 3 to 4)
SCI ED 6700 The History, Philosophy, and Nature of Science (substantive, increased 1 hour, 3 to 4)
SCI ED 6900 Trends and Issues in Science Education (substantive, increased 1 hour, 2 to 3)

V. Get-Together, October 13

All members were invited to a gathering at G. Olivares’ house on Saturday, October 13 at 6pm.

VI. Next meeting Monday, October 15, 2018, 12pm/Noon, Lang 115

Chair Olivares stated the next meeting was scheduled for October 22, 2018 in room 115 Lang Hall. It would be a make-up session for HRCS/Leisure, Youth and Human Services curriculum packet.

Olivares asked if we needed a pre-meeting or just meet on Monday, October 15 to discuss and vote. The committee was supportive of having RTCS meeting next week.

Olivares added that she would like to have a discussion and feedback from the committee on ways to streamline GCCC meetings. For example, if a department was doing a prefix change, would the GCCC need to review and discuss that type of editorial change?
D. Cyphert asked if editorial items would not show up for GCCC to review at all. G. Olivares responded affirmatively, some items might not show up to the committee, things such as a department name change or prefix.

Olivares asked D. Wallace for her feedback. D. Wallace stated that the Registrar’s Office did not have a preference but many changes might seem editorial at first but upon further review there were bigger changes to consider. D. Cyphert stated that she would like to be able to see the courses and have them reviewed by committee readers. These might all go to the consent agenda but would need a first review. Cyphert added that if it was a program restatement that only involved a department name change, that maybe okay to approve without review.

C. Nielsen asked about the timeline of when courses were dropped. D. Wallace stated that if a course were not taught in 4 years, it would be removed.

The meeting adjourned at 1:15 p.m.

Respectfully submitted,

Joan Smothers
Office of the Registrar

JPS
cc: UCC
    GCCC
    Guests