UCC Course Report for October 4, 2024 Meeting - CHAS-Sciences

Status	(X) GCC Also Reviews	Code	Title	College	Department	Graduate Credit Course	Is this proposal editorial or substantive?	UNIFI Course?	Consent Agenda? Yes/No
Added		TECH CM 2400	TECH CM 2400: Construction Materials	CHAS	Applied Engineering & Technical Management	No			No
Added		BIOL 1200	BIOL 1200: Biological Diversity and Conservation	CHAS	Biology	No		Yes	No
Added		STAT 1782	STAT 1782: Data-based Artificial Intelligence for All	CHAS	Mathematics	No			No
Added		PHYSICS 3100	PHYSICS 3100: Introduction to Quantum Computing	CHAS	Physics	No			No
Edited		SCI ED 1100	SCI ED 1100: Inquiry into Earth and Space Science	CHAS	Science and Science Education	No	substantive		No
Edited		SCI ED 1200	SCI ED 1200: Inquiry into Life Science	CHAS	Science and Science Education	No	substantive		No
Edited		SCI ED 1300	SCI ED 1300: Inquiry into Physical Science	CHAS	Science and Science Education	No	substantive		No
Edited		SCI ED 2300	SCI ED 2300: Investigations in Physical Science	CHAS	Science and Science Education	No	substantive		No

Status	Code	Title	College	Department	Program Degree Code	Consent Agenda? Yes/No
Edited	TECHEDTCHG-BS	TECHEDTCHG-BS: Technology and Engineering Education Major-Teaching	CHAS	Applied Engineering & Technical Management	BS	Yes
Edited	TECHEDTCHG-MINOR	TECHEDTCHG-MINOR: Technology Education Minor-Teaching	CHAS	Applied Engineering & Technical Management	MINOR	Yes
Edited	TECHMGMT-BA	TECHMGMT-BA: Industrial Management Major	CHAS	Applied Engineering & Technical Management	BA	Yes
Edited	TECHMGMT-CERT	TECHMGMT-CERT: Industrial Management Certificate	CHAS	Applied Engineering & Technical Management	CERT	Yes
Edited	BIOTCHG-BA	BIOTCHG-BA: Biology Major-Teaching	CHAS	Biology	BA	No
Edited	CHEMTCHG-BA	CHEMTCHG-BA: Chemistry Major-Teaching	CHAS	Chemistry & Biochemistry	BA	Yes
Edited	COMPSCI-BA	COMPSCI-BA: Computer Science Major	CHAS	Computer Science	BA	Yes
Edited	COMPSCI-BS	COMPSCI-BS: Computer Science Major	CHAS	Computer Science	BS	Yes
Edited	COMPSCIED-CERT	COMPSCIED-CERT: Certificate in Computer Science Education 5-12	CHAS	Computer Science	CERT	No
Added	COMPSCIK8-CERT	COMPSCIK8-CERT: Certificate in Computer Science Education K-8	CHAS	Computer Science	CERT	No
Edited	EARTHSCITCHG-BA	EARTHSCITCHG-BA: Earth Science Major-Teaching	CHAS	Earth & Environmental Sciences	BA	Yes
Added	ENVDATAANALYSIS-MINOR	ENVDATAANALYSIS-MINOR: Environmental Data Analysis	CHAS	Earth & Environmental Sciences	MINOR	No
Edited	MATHTCHG-BA	MATHTCHG-BA: Mathematics Major-Teaching	CHAS	Mathematics	BA	Yes
Edited	MATHTCHG-MINOR	MATHTCHG-MINOR: Mathematics Minor-Teaching	CHAS	Mathematics	MINOR	Yes
Edited	PHYSICS-BA	PHYSICS-BA: Physics Major	CHAS	Physics	BA	No
Edited	PHYSICSTCHG-BA	PHYSICSTCHG-BA: Physics Major-Teaching	CHAS	Physics	BA	Yes
Edited	BASSCIK8TCHG-MINOR	BASSCIK8TCHG-MINOR: Basic Science Minor (K-8)-Teaching	CHAS	Science and Science Education	MINOR	Yes
Edited	COMPSECSCIENCE-BA	COMPSECSCIENCE-BA: Comprehensive Secondary Science Teaching Major	CHAS	Science and Science Education	BA	Yes
Edited	MIDJRHGSCITCHG-BA	MIDJRHGSCITCHG-BA: Middle-Level Science Teaching Dual Major	CHAS	Science and Science Education	BA	Yes
Deleted	STEM-MINOR	STEM-MINOR: STEM Education Minor	CHAS	Science and Science Education	MINOR	Yes

Present: N. Bird, M. Chian, C. Christopher, D. Cornish, D. Heistad, C. Holcombe, B. Kanago, R. Kidwell, M. Kline, C. Nedrow, H. Porter Occena, E. Renfro, S. Riehl, J. Schraffenberg, A. Shafer

Absent: G. Gould, C. Heinzel, N. Lehman, J. Ophus, K. Warren

Guests: P. Berendzen, M. Clayton, L. Escalada, S. Kirmani, S. Morgan, L. Riedle, P. Shand, R. Sharp, T. Spradling, E. Wallingford

The meeting was called to order by D. Heistad at 3:00 pm in the Presidential Room

I.   Welcome & Introductions

D. Heistad welcomed all present

II.   Approval of Minutes – September 25, 2024

B. Kanago moved to approve the September 25, 2024, minutes. N. Bird seconded. D. Heistad asked if there were any corrections or additions to the minutes. Hearing none.

D. Heistad called for a vote on the September 25, 2024, minutes. Motion passed unanimously.

III.   Call for any proposals to be moved from the consent to regular agenda

C. Holcombe requested that the COMPSCIED-CERT be moved off the consent agenda.

S. Riehl moved, E. Renfro seconded, to approve the consent agenda. The motion passed unanimously.

IV.   Curriculum Review Procedures for a Curriculum Proposal in the Department of Applied Engineering & Technical Management

S. Riehl moved, E. Renfro seconded, to approve the Department of Applied Engineering & Technical Management proposal.

Agenda Items – Course

- TECH CM 2400: Construction Materials (added)

S. Riehl asked if TECH CM 2400 has extended hours due to it being a lecture/lab. L. Riedle explained that students will still receive three credit hours – the lecture/lab will be built into the course. R. Kidwell will add 'lecture/lab' to the course description and ensure students are meeting for the correct time based on the lecture/lab course component.

D. Heistad wondered about the equipment cost for TECH CM 2400 – was the department able to get the equipment needed for the course. L. Riedle stated that they're in the process of receiving the equipment. D. Heistad asked if the course will still be taught if they don't have the equipment. R. Sharp responded yes.

Chair Heistad called for a vote on the motion to approve the Department of Applied Engineering & Technical Management proposal. The motion passed unanimously.

V.   Curriculum Review Procedures for Curriculum Proposals in the Department of Biology

S. Riehl moved, E. Renfro seconded, to approve proposals from the Department of Biology.

Agenda Items – Program
- BIOTCHG-BA: Biology Major – Teaching (edited)

T. Spradling explained to the committee that the department revised the BIOTCHG-BA major to address the Teacher Education charge and to modernize the requirements and offerings for what high school teachers may need. In addition, they made sure more ecology was specified as a requirement – this will be one of the standards students have to teach. S. Riehl brought up a hidden prerequisite on BIOL 4128 and requested adding an asterisk.

R. Kidwell went on to say that she will remove an old asterisk off of 'required' at the top of the program, which was tied to an old footnote. M. Clayton stated that the department will review the program again to ensure no more asterisks are needed. An asterisk will be put on BIOL 4128, and the asterisk will be removed off of the 'required' heading.

M. Clayton went on to discuss the BIOTCHG-MINOR, stating that it needs to be paired with a teaching major. R. Kidwell confirmed that the minor does state that you need to be a secondary science teaching major. R. Kidwell went on to explain that minors without EDUC methods/internship courses require students to be a teaching major, so they will get the methods course within their major. While the EDUC courses aren't shown in some of the minors at the moment, they may be added at some point so students coming back for an additional endorsement understand they need to take a methods course.

S. Riehl mentioned that students could do the Biology Teaching minor without taking a methods course required from the major. R. Kidwell said that in the BIOTCHG-MINOR it specifies that students need to be a Secondary Science Teaching major.

Agenda Items – Course
- BIOL 1200: Biological Diversity and Conservation (added)

D. Heistad wondered if BIOL 1200 is a pre-study abroad course – will students meet in the spring before they travel. If students don't decide until later in the semester that they want to study abroad will it be an issue. P. Berendzen explained that there's a cutoff date, and that it will be a second half semester course.

D. Heistad went on to ask if there was a last minute add could the department accept it. P. Berendzen stated that the study abroad department wouldn't let that happen. D. Heistad also wondered if the department has considered opening up the course to more countries. P. Berendzen responded saying its open to any country.

R. Kidwell asked J. Schraffenberg if BIOL 1200 is a UNIFI course. J. Schraffenberg stated that it will be under the UNIFI Responsibility category.

Chair Heistad called for a vote on the motion to approve the Department of Biology proposals. The motion passed unanimously.

VI.   **Curriculum Review Procedures for Curriculum Proposals in the Department of Computer Science**

S. Riehl moved, E. Renfro seconded, to approve proposals from the Department of Computer Science.

Agenda Items – Program
- COMPSCIK8-CERT: Certificate in Computer Science Education K-8 (added)
- COMPSCIED-CERT: Certificate in Computer Science Education 5-12 (edited, removed from consent agenda)

S. Riehl stated that the courses have old prerequisites. C. Christopher mentioned that TEACHING 2017 will turn into TEACHING 2020. S. Riehl asked the department if they want Teacher Education prerequisites.

E. Wallingford stated that they must have forgotten to remove them. S. Riehl went on to ask about CS ED 3310 & CS ED 4330 also having old prerequisites. C. Christopher said TEACHING 3128 is moving to EDUC 2300, additionally, TEACHING 3148 won't be an option.

D. Heistad asked E. Wallingford if he would prefer to keep or delete the prerequisites. E. Wallingford explained that they want to drop the TEACHING and EDPSYCH courses as prerequisites but keep the CS ED courses. TEACHING and EDPSYCH courses will be removed as prerequisites from the courses in the COMPSCIK8-CERT and COMPSCIED-CERT certificates.

S. Riehl went on to say that the Physics department is proposing a change that would affect a Computer Science course prerequisite. E. Wallingford stated that P. Shand consulted them about CS 3140. Right now, there is an exception for Data Science minors – to that exception, they want to add the new Physics BA major (Computer Science & Data Science emphasis).

Chair Heistad called for a vote on the motion to approve the Department of Computer Science proposals. The motion passed unanimously.

VII.   Curriculum Review Procedures for a Curriculum Proposal in the Department of Earth & Environmental Sciences

S. Riehl moved, E. Renfro seconded, to approve a proposal from the Department of Earth & Environmental Sciences.

Agenda Items – Program

- ENVDATAANALYSIS-MINOR: Environmental Data Analysis (added)

S. Riehl asked S. Morgan how the ENVDATAANLAYSIS-MINOR will be marketed. S. Morgan told the committee that the department will contact the Computer Science and Business departments. S. Riehl suggested that S. Morgan consult with more departments. S. Morgan explained that the program wouldn't cost the department more money, the new program would be a good area of concentration for students outside of the physical sciences.

B. Kanago pointed out that in the electives category, it states 'at least 12 hours' – this wording might not be necessary. S. Morgan told B. Kanago that the courses are variable credits – there are 3- and 4-hour courses, but they need to select two courses in each elective category.

Chair Heistad called for a vote on the motion to approve the Department of Earth & Environmental Sciences proposal. The motion passed unanimously.

VIII.   Curriculum Review Procedures for a Curriculum Proposal in the Department of Mathematics

S. Riehl moved, E. Renfro seconded, to approve a proposal from the Department of Mathematics.

Agenda Items – Course

- STAT 1782: Data-Based Artificial Intelligence for All (added)

No questions or comments.

Chair Heistad called for a vote on the motion to approve the Department of Mathematics proposal. The motion passed unanimously.

IX.   **Curriculum Review Procedures for Curriculum Proposals in the Department of Physics**

S. Riehl moved, E. Renfro seconded, to approve proposals from the Department of Physics.

Agenda Items – Program

- PHYSICS-BA: Physics Major (edited)

P. Shand explained that the new Computer Science & Data Science emphasis contains more computer science content compared to the other emphases – it's geared toward scientific enterprise. A lot of the data science minor is integrated into the PHYSICS-BA major. P. Shand went on to say that the department hopes computer science majors who have an interest in data science will take more physics courses to get another major.

P. Shand also stated that he's had conversations with E. Wallingford to present this major as an option to students early on in their career. The department is hoping to design programs that show connection between different science programs.

S. Riehl mentioned that in the data science emphasis there's a stray asterisk for STAT 3775 – the footnote should be deleted. Additionally, in the physical chemistry emphasis, there needs to be an asterisk and note on PHYSICS 4750 indicating the prerequisite. R. Kidwell will update.

Agenda Items – Course

- PHYSICS 3100: Introduction to Quantum Computing (added)

S. Riehl asked if other Physics courses need to be listed as prerequisites to get into PHYSICS 3100. R. Kidwell stated that it's up to the department if they want to list all the courses or if they're willing to one-off approve students. P. Shand asked to add PHYSICS 1701 to the list. R. Kidwell will add PHYSICS 1701 as a prerequisite option.

B. Kanago suggested consulting the Economics department about the prerequisite course – ECON 2090.

Chair Heistad called for a vote on the motion to approve the Department of Physics proposals. The motion passed unanimously.

X.   Curriculum Review Procedures for Curriculum Proposals in the Department of Science & Science Education

S. Riehl moved, E. Renfro seconded, to approve proposals from the Department of Science & Science Education.

Agenda Items – Courses

- SCI ED 1100: Inquiry into Earth and Space Science (edited)
- SCI ED 1200: Inquiry into Life Science (edited)
- SCI ED 1300: Inquiry into Physical Science (edited)
- SCI ED 2300: Investigations in Physical Science (edited)

S. Riehl wondered if changing the 4-hour classes to 3-hour classes would affect UNIFI. J. Schraffenberg stated that it would not negatively affect UNIFI – a lab experience is needed in students scientific reasoning learning area, but it could be a 3-hour course that has a lab.

L. Escalada explained that the Curriculum and Instruction department made a request that they reduce the hours from 4 to 3 for SCI ED 1100, 1200, and 1300 – this came about due to the Teacher Education changes. These courses are 4 credit hours, but 5 contact hours.

L. Escalada went on to say that the inquiry courses needed to be true to their identity – there's no lecture in the inquiry courses, instead they're investigation based.

R. Kidwell mentioned that N. Lehman helped L. Escalada navigate the course hours. L. Escalada stated that according to the minimum minutes of instruction, a 3-hour credit course, lab only, can be up to 300 minutes a week – the department is within that range at 250 minutes.

S. Riehl asked about SCI ED 2300 – it sounds like a new course rather than an edited course. L. Escalada explained that the department is streamlining their Basic Science minor due to the Teacher Education charge.

S. Riehl mentioned that SCI ED 2300 may fit better if it's given a new number – this would help distinguish students who took the course as a 4-hour course from the 2-hour course. L. Escalada agreed. R. Kidwell and L. Escalada will work together to decide on a new number and course title for a new course, and the edits to SCI ED 2300 will be shredded.

Chair Heistad called for a vote on the motion to approve the Department of Science & Science Education proposals pending future conversations about the new course to replace SCI ED 2300. The motion passed unanimously.

XI.   Next Meeting – Wednesday, October 16, 3:00 pm, Presidential Room, Maucker Union

Discussion of College of Education Curriculum proposals

The meeting adjourned at 4:00 p.m.

Respectfully submitted,

Ava Shafer

Office of the Registrar

cc: UCC

    GCCC

    Guests