

**MINUTES OF  
UNIVERSITY COMMITTEE ON CURRICULA**

**October 6, 2021**

**Present:** C. Christopher, L. Fenech, M. Fienup, G. Gould, D. Grant, M. Hecimovich, B. Kanago, R. Kidwell, D. Marchesani, C. Nedrow, P. Pease, G. Pohl, H. Porter-Occena, S. Riehl, A. Schmiesing, D. Shaw

**Absent:** J. Ophus, M. Perry

**Guests:** P. Shand, T. Kidd, L. Escalada, L. Riedle, J. Zhu, J. Zhang, L. Geisinger, S. Kucuksari, S. Revuru, M. Clayton, C. Weeks, B. Harwood

The meeting was called to order by Chair Pease at 3:00 p.m. via Zoom

**I. Welcome**

Chair Pease welcomed all present.

**II. Approval of Minutes – September 29, 2021**

M. Fienup moved to approve the September 29, 2021 minutes. L. Fenech seconded.

Chair Pease asked if there were any corrections or additions to the minutes. There were none.

**Chair Pease called for a vote on the September 29 minutes. Motion passed unanimously.**

**III. Curriculum Review Procedures for Consent Agenda – All departments**

S. Riehl moved to approve the consent agenda. H. Porter-Occena seconded.

**Agenda Items – Programs**

- BIOLACADPOLICY-NOTE: Biology Academic Standard Policy (edited)
- BIOCHEM-BA: Biochemistry Major (edited)
- CHEM-BA: Chemistry Major (edited)
- CHEMTCHG-BA: Chemistry Major-Teaching (edited)
- MATERIALSSCITECH-MINOR: Materials Science and Technology Minor (edited)
- GRAPHTECH-BA: Graphic Technology Major (edited)

**Agenda Items – Courses**

- CHEM 2310: Chromatography and Quantitative Analysis (deleted)
- CHEM 4310: Instrumental Analysis (edited)
- EARTHSCI 1400: Introduction to Environmental Earth Science (edited)
- EARTHSCI 3365: Hydrology Seminar (edited)
- TECH 1010: Metal Removal Processes (edited)
- TECH 1024: Technical Drawing and Design I (edited)
- TECH 3024: Solid Modeling and Additive Manufacturing for Design (edited)
- TECH 3065: Technology and Organizational Efficiency (edited)
- TECH 3127: Transport Phenomena for Technologists (edited)
- TECH 3131: Technical Project Management (edited)
- TECH 3147: Computer Aided Manufacturing (edited)
- TECH 3177: Advanced Manufacturing Processed (edited)
- TECH 4110: Manufacturing Process Planning (edited)
- TECH 4158: Graphic Communication Data Visualization (edited)
- TECH 4162: Automation-Pneumatics and Hydraulics (edited)
- TECH 4167: Power Electronics Applications (edited)

- TECH 4174: Senior Design I (deleted)
- TECH 4176: Senior Design II (deleted)
- TECH CM 3150: Construction Project Planning, Scheduling and Control (edited)
- TECH CM 4400: Construction Management Senior Project (edited)
- TECH TEE 1000: Introduction to Technology and Engineering Education (edited)
- TECH TEE 3100: Technology and Engineering Education Curriculum Planning (edited)
- TECH TEE 3150: Technology Engineering Education Lab Management (edited)
- TECH TEE 4100: Technology and Engineering Education Level 3 Teaching Experience (edited)
- TECH TEE 4200: Technology and Engineering Education Methods (edited)

M. Fienup pulled TECH 3024: Solid Modeling and Additive Manufacturing for Design from the consent agenda.

**Chair Pease called for a vote on the motion to approve the consent agenda proposals, excluding TECH 3024. The motion passed unanimously.**

#### **IV. Curriculum Review Procedures for the Curriculum Proposal of the Department of Physics**

S. Riehl moved to approve the curriculum packet for the Department of Physics. H. Porter-Occena seconded.

##### **Agenda Items – Programs**

- PHYSICS-BS: Physics Major (edited)

S. Riehl questioned which course would be tracked for the Bachelor of Science research requirement. H. Porter-Occena shared according to T. Kidd's email, most students take PHYSICS 3000 for the research requirement. Students could also take PHYSICS 3500 or PHYSICS 3179 as the research course. P. Shand confirmed most students take PHYSICS 3000. PHYSICS 3500 is taken by a few students in the 3+2 program. S. Riehl explained the catalog will now indicate which course is tracked for the Bachelor of Science research requirement. Chair Pease explained the course will get an @ sign and a note that indicates this course meets the Bachelor of Science research requirement. R. Kidwell will add the notation to PHYSICS 3000 and PHYSICS 3500. PHYSICS 3179 is not listed in the program. T. Kidd agreed to the notation.

M. Fienup asked if the footnote that lists the choice of elective courses can be removed. T. Kidd stated the second sentence in the footnote needs to stay because the electives have to count toward major/department. T. Kidd confirmed the first sentence of the footnote can be removed. R. Kidwell will make the edit.

##### **Agenda Items - Courses**

- PHYSICS 4700: Electrodynamics (edited)

Chair Pease shared his note stated there were a lot of changes made to this course. He asked if this course would benefit from a new number. S. Riehl explained by keeping the same number the old course and new course will be the same course. P. Shand doesn't think it will be an issue. P. Shand shared the same topics will be covered but taught in a different fashion. The course will be more applied orientated. In the past, the course has been taught theoretical based. The Department of Physics is trying to make the course more attractive to a broader array of students. A lot of their students are electing to go to work after graduation instead of going to graduate school. Students are more interested in applied skills than theoretical skills that are useful for graduate school applications. The tenor of the course will change to fit that reality but the content will not change that much. He doesn't think giving it a new number would be correct in this case. S. Riehl explained if a student returns to graduate school the department won't know if they took the old or new course. T. Kidd said that is fine.

**Chair Pease called for a vote on the motion to approve the curriculum proposals with edits discussed for the PHYSICS-BS Major, for the Department of Physics. The motion passed unanimously.**

#### **V. Curriculum Review Procedures for the Curriculum Proposal of Science Education**

S. Riehl moved to approve the curriculum packet for Science Education. H. Porter-Occena seconded.

### **Agenda Items – Programs**

- STEM-MINOR: STEM Education Minor (edited)

S. Riehl shared ELEMECML 3100 has pre-requisites, however the students in the elementary education program who are taking this course will meet the pre-requisites. L. Escalada confirmed that is correct. S. Riehl shared it is not being requested to list the pre-requisites as part of the program, just add the asterisk to alert students there are pre-requisites. R. Kidwell will add the asterisk.

M. Fienup noticed MATH 3213 has a pre-requisite of CS 1150. CS 1150 is now CS ED 1310. This is just a cleanup item. R. Kidwell will make the edit.

S. Riehl shared TECH TEE 3050 and PHYSICS 3050 are listed twice but the courses are cross listed. R. Kidwell will make the edit.

S. Riehl shared a lot of the electives course options have pre-requisites, but the list would be very long if we listed everything out. Chair Pease asked if a generic asterisk was added for other programs with this issue. Something stating “these courses have additional prerequisites”. R. Kidwell replied yes, we’ve done that in other programs. S. Riehl stated almost all the math courses have pre-requisites but they do already have a notation. R. Kidwell explained that notation identifies the Elementary Education or Secondary Teaching options. L. Escalada explained there will be courses very specific to majors that the student would have to take as part of their program. Chair Pease said this is a complex minor and students need to plan out the sequence of courses. L. Escalada said there is a STEM Education Advisor assigned to this minor. This advisor helps students navigate through the process. L. Escalada shared there is a separate note for Elementary Education and Secondary Education students. M. Fienup suggested the asterisk and carrot that is currently listed at the top of the program should also be listed at the bottom. B. Kanago suggested a note that alerts students interested in this minor should consult with the advisor to make sure they complete the pre-requisite courses. S. Riehl said that note could go in the pro-log. R. Kidwell will work with L. Escalada on the language.

**Chair Pease called for a vote on the motion to approve the STEM-MINOR proposal with edits discussed and the Registrar’s Office will work with L. Escalada to get final wording, for Science Education. The motion passed unanimously.**

## **VI. Curriculum Review Procedures for the Curriculum Proposal for the Department of Technology**

S. Riehl moved to approve the curriculum packet for the Department of Technology. H. Porter-Occena seconded.

### **Agenda Items – Programs**

- EET-BS: Electrical Engineering Technology (EET) Major (edited)

S. Riehl said the program will list 79 total hours once the formatting is cleaned up. The maximum number of hours for the Bachelor of Science is 68. M. Fienup explained programs are allowed to subtract Liberal Arts Core courses due to double counting so the program is actually is 69 hours, one hour over the maximum. S. Kucuksari stated this major is listed as an extended program. R. Kidwell confirmed this major has the extended program notation. Chair Pease confirmed that if a program is already listed as extended, it is essentially grandfathered in. The department is making the program one hour shorter.

S. Riehl asked which research course will be tracked for the Bachelor of Science research requirement. L. Riedle confirmed the course is currently listed as TECH 4176, which will be changed to TECH 4220.

- MFGTECH-BS: Manufacturing Engineering Technology (edited)

S. Riehl asked which course will be tracked for the Bachelor of Science research requirement. L. Riedle replied TECH 4210.

S. Riehl shared there is the option of TECH 4143 or TECH 3180 in the program. TECH 4143 is a pre-requisite for TECH 3180. L. Riedle confirmed a lot of the students have work experience. If an advisor believes the work experience will allow students to be successful in TECH 3180 without taking TECH 4143, that will be allowed. S. Revuru replied the courses can stay listed and TECH 4143 can be waived with consult of instructor. D. Grant said it's a good way to advertise to students this is an option. S. Riehl said if you only list TECH 4143, then students can do a student request to substitute TECH 3180. R. Kidwell said the note can be added with an asterisk. Chair Pease shared the wording is "TECH 4143 or with the consent of instructor you may take TECH 3180". The added note will make students aware of the exception.

S. Riehl stated there is a list of potential electives at the end of the program that can be deleted. There are no electives required in this program. M. Fienup asked the Department of Technology about this list of electives in previous years. The department wanted to keep the list to encourage students to take university electives in their program. L. Riedle said this list of electives will be used internally when advising students rather than posting the list. L. Riedle confirmed the note can be taken out.

#### **Agenda Items – Courses**

- TECH 4220: Senior Design (added)

No issues noted.

- TECH 3024: Solid Modeling and Additive Manufacturing for Design (edited)

M. Fienup pulled this course off consent. He asked if the course needs a new number due to many changes being made. L. Riedle is fine with the old course and new course being the same course.

**Chair Pease called for a vote on the motion to approve curriculum for the Department of Technology. The motion passed unanimously.**

## **VII. Curriculum Review Procedures for the Curriculum Proposal for the Department of Chemistry & Biochemistry**

S. Riehl moved to approve the curriculum packet for the Department of Chemistry & Biochemistry. H. Porter-Occena seconded.

#### **Agenda Items – Programs**

- BIOCHEM-BS: Biochemistry Major (edited)

S. Riehl shared CHEM 3600 will be tracked for the Bachelor of Science research requirement. C. Weeks said the electives double-asterisk footnote can be removed due the required courses now being the same credit hours. R. Kidwell asked if the three-four hours for electives should be changed to three. C. Weeks said some of the course options are four hours, leaving it as three-four hours may be better.

- CHEM-BS: Chemistry Major (edited)

S. Riehl shared CHEM 3600 will be tracked for the Bachelor of Science research requirement.

- CHEM-MINOR: Chemistry Minor (edited)

S. Riehl said there are hidden pre-requisites that need asterisks. S. Riehl shared CHEM 4310 needed updates due to the deleted course. C. Weeks confirmed the credit hours are now three hours and the pre-requisites have changed. The Registrar's Office has the information needed to make the edits.

#### **Agenda Items – Courses**

- CHEM 2320: Chemical Analysis (added)
- CHEM 2330: Chemical Analysis Laboratory (added)

No issues noted.

**Chair Pease called for a vote on the motion to approve the curriculum packet for the Department of Chemistry & Biochemistry. The motion passed unanimously.**

**VIII. Other Business:**

Chair Pease shared the smaller committee group is making progress on creating definitions for minors and certificates. The information will be shared with the larger group in the near future.

Chair Pease shared the Senate is going to ask UCC to review the curriculum cycle. The conversations have been to make it easier to navigate through the process. Chair Pease asked if UCC members are willing to tackle this special project. UCC members unanimously agreed. Chair Pease will work on scheduling meetings and creating agendas.

**IX. Next meeting – Wednesday, October 13, 3:00 pm, via Zoom**

Discussion of Clean-up Items

3:00 pm – Clean-up Items

**X. Items for Clean Up Meeting**

- MGMT 2113 Business Communication (edited)
- ENTRPENEUR-MINOR: Entrepreneurship Minor (edited)
- GEOG 2350 Intro to Environmental Data Analysis (added)
- GEOG 1210 Planet Earth (edited)
- GIS-BS: Geographic Information Science Major (edited)
- TEXDSGN 3008 Computer Applications for the Textile and Apparel Industry (edited)
- TEXDSGN 3014 Branding Strategies for the Apparel Industry (added)
- ELEMECML 4160: Administration and Advocacy of Early Childhood Programs (edited)
- SOCFOUND 3219: Critical Perspectives on Technology and Education (added)
- SOCFOUND 3319: Education and the Value Gap (added)
- SOCFOUND 3419: Special Topics in Cultural Studies of Education (added)
- MUS TECH 3130: Arts Entrepreneurship I (added)
- MUS TECH 3140: Arts Entrepreneurship II (added)
- INTDIGITAL-BA: Interactive Digital Studies (edited)
- INTDIGITAL-MINOR: Interactive Digital Studies (edited)
- COMM 4556: Advanced Digital Visualization (edited)

The meeting adjourned at 4:00 p.m.

Respectfully submitted,

April Schmiesing  
Office of the Registrar

cc: UCC  
GCCC  
Guests  
Record Analysts