COLORADO MESA UNIVERSITY

Undergraduate Curriculum Committee
Meeting Minutes
November 16, 2023
EH 128

Members Present: Sarah Lanci, Scott Andrews, Evan Curtis, Stephen Stern, Geoff Gurka, Lisa Driskell, Olga Grisak, Sloane Milstein, Cecilia Battauz, Andrew Bajorek, Jessica Herrick, Amy Maurer, and Blake Bickham

Members Absent: Wayne Smith

Ex-officio members present: Amber D'Ambrosio, Maggie Bodyfelt, Janel Davis, Morgan Bridge, Johanna Varner, John Stewart

Guests Present: None

Recording Secretary: Lisa Bessette

Chair Lanci called the meeting to order at 3:30 pm.

I. Announcements

A. Chair Lanci reminded the Committee of the Fall deadlines with all proposals due December 22, 2023 for inclusion in this year's Catalog. If a curriculum change needs to appear for Spring Registration, the curriculum proposal must be approved by the December 7 UCC Meeting.

B. Chair Lanci reminded UCC Members that Curriculum Proposal initiators and/or those responsible for the proposals might be asked to meet with UCC Exec when the proposal is discussed to answer questions/provide any needed clarifications.

II. Ex-Officio Reports

A. Associate Vice President of Academic Affairs for Assessment and Accreditation
   i. Nothing to report

B. Registrar's Office
   i. Nothing to report

C. Financial Aid Deputy Director Stewart
   i. Financial Aid Deputy Director Stewart reminded the committee that it is not necessary to submit program checklists for new minors that are added.

D. Librarian D'Ambrosio
   i. Librarian D'Ambrosio reminded the committee if they have any additions coming to please send to the library in advance. For archival of records, Librarian D'Ambrosio mentioned that since the implementation of CIM the curriculum committee meeting

minutes do not include the proposal information, only the links to the proposal in CIM. Chair Lanci referenced the UCC meeting minutes from the October meeting and noted that they contained the proposals and justifications. Chair Lanci encouraged the committee to review the minutes from the current meeting from the perspective of when they are archived will there be enough information provided to someone who may read about the proposals 10 years from now.

E. Catalog Description Reviewer Varner
   i. Catalog Description Reviewer Varner reminded the Committee that the catalog description will be reviewed for all proposals, even if there has not been a change made.

F. Essential Learning Scott Andrews
   i. Essential Learning Scott Andrews reported that there has been one Essential Learning course added into CIM for review: History of Country Music.

III. Old Business

A. No Old Business

IV. Curriculum Proposals

A. **Curriculum proposals begins on page 4.**

V. Information Items

A. Chair Lanci reminded Committee Members that Course Clean-up (SLOs, Topical Course Outline, Semester Offered, Engagement Minutes) on all 100-200 level courses needs to occur this fall and hopefully be completed.
B. She also reminded Committee Members that Clean-up (SLOs, Topical Course Outline, Semester Offered, Engagement Minutes) on 300-400 level courses needs to begin.
C. Chair Lanci reminded faculty to justify all changes in a way that someone outside the department can understand what is changing and why and to ensure department discussions are documented with a month/year and outcome.
D. Chair Lanci also reminded the Committee to make sure any program changes or other course changes impacted by the initial proposal are completed and go through CIM at the same time. A curriculum proposal will be held until all other needed proposals are in queue before UCC Exec will review.

VI. New Business

E. No new business

Gurka moved and Stern seconded to adjourn the meeting. With no objections from the

committee, Chair Lanci adjourned the meeting at 4:11 pm.

Respectfully submitted, Lisa Bessette, 11/17/2023.

COLORADO MESA UNIVERSITY

UCC Proposals November 16, 2023

Effective Term - Summer 2024	Programs

The following is a summary: Additional information can be found on the individual curriculum proposals.

Title	Degree	Committee Action	Motion | Second
3409: Biological Sciences: Ecology, Evolution and Organismal Biolo	**BS**	**Program Modification - Approved**	**Gurka | Milstein**

UCC Discussion: 1. A new course is being proposed that is a redesign/consolidation of two existing courses that will be inactivated. The two existing courses are BIOL 421/421L, Plant Physiology and BIOL 423/423L Plant Anatomy. The goal is to consolidate these two courses into one course (BIOL 427/427L, Plant Anatomy and Physiology) that will be taught every even numbered fall semester. Currently, plant physiology and plant anatomy alternate as upper division options in the spring semesters (physiology is taught during even numbered spring semesters and anatomy is taught during odd numbered spring semesters). Consolidating the two courses will help students understand the relationship between plant structure and function by connecting the anatomical features with the physiological processes in a single semester rather than needing to wait for each separate course to come around. Finally, the proposed consolidation will not only provide flexibility for students when planning their courses but will also free up time and credit hours in the upper division offerings within the Biology Program that can be filled with other courses that faculty may be interested in teaching and students may be interested in taking. 2. With the creation of the new course BIOL 427/BIOL 427L, there is no longer a need for BIOL 421/BIOL 421L Plant Physiology and BIOL 423/BIOL 423L Plant Anatomy.

Change Item Description	Department Justification
List all proposed changes to the program:	1. Add a new course, BIOL 427/BIOL 427L Plant Anatomy and Physiology/Plant Anatomy and Physiology Laboratory as a choice in the Additional Biology courses: Category 3 Anatomical and Physiological.2. Inactivate and remove BIOL 421/BIOL 421L Plant Physiology, and BIOL 423/BIOL 423L Plant Anatomy.3. BIOL was capitalized in the SLO mapping to be consistent in formatting.
Describe discussions about this proposal within the department and outcomes.	The changes were discussed with the department head and faculty within the department in August 2023 to ensure that this change would not have a negative effect on the courses that other faculty teach and/or the ability of students to take the courses they need. The faculty approved the changes. No other departments are affected.

3410: Biological Sciences: Biology	**BS**	**Program Modification - Approved**	**Gurka | Milstein**

UCC Discussion: 1. A new course is being proposed that is a redesign/consolidation of two existing courses that will be inactivated. The two existing courses are BIOL 421/421L, Plant Physiology and BIOL 423/423L Plant Anatomy. The goal is to consolidate these two courses into one course (BIOL 427/427L, Plant Anatomy and Physiology) that will be taught every even numbered fall semester. Currently, plant physiology and plant anatomy alternate as upper division options in the spring semesters (physiology is taught during even numbered spring semesters and anatomy is taught during odd numbered spring semesters). Consolidating the two courses will help students understand the relationship between plant structure and function by connecting the anatomical features with the physiological processes in a single semester rather than needing to wait for each separate course to come around. Finally, the proposed consolidation will not only provide flexibility for students when planning their courses but will also free up time and credit hours in the upper division offerings within the Biology Program that can be filled with other courses that faculty may be interested in teaching and students may be interested in taking.2. With the creation of the new course BIOL 427/BIOL 427L, there is no longer a need for BIOL 421/BIOL 421L Plant Physiology and BIOL 423/BIOL 423L Plant Anatomy.

Change Item Description	**Department Justification**
List all proposed changes to the program:	1. Add a new course, BIOL 427/BIOL 427L Plant Anatomy and Physiology/Plant Anatomy and Physiology Laboratory as a choice in the Additional Biology courses: Category 3 Anatomical and Physiological and as an option for the requirement that students in this concentration take at least one cell or physiology based course.2. Inactivate BIOL 421/BIOL 421L Plant Physiology, and BIOL 423/BIOL 423L Plant Anatomy.3. BIOL was capitalized in the SLO mapping to be consistent in formatting.
Describe discussions about this proposal within the department and outcomes.	The changes were discussed with the department head and faculty within the department in August 2023 to ensure that this change would not have a negative effect on the courses that other faculty teach and/or the ability of students to take the courses they need. The faculty approved the changes. No other departments are affected.

3414: Biological Sciences: Cellular, Molecular and Developmental B	**BS**	**Program Modification - Approved**	**Gurka | Milstein**

UCC Discussion: A new course is being proposed that is a redesign/consolidation of two existing courses that will be inactivated. The two existing courses are BIOL 421/421L, Plant Physiology and BIOL 423/423L Plant Anatomy. The goal is to consolidate these two courses into one course (BIOL 427/427L, Plant Anatomy and Physiology) that will be taught every even numbered fall semester. Currently, plant physiology and plant anatomy alternate as upper division options in the spring semesters (physiology is taught during even numbered spring semesters and anatomy is taught during odd numbered spring semesters). Consolidating the two courses will help students understand the relationship between plant structure and function by connecting the anatomical features with the physiological processes in a single semester rather than needing to wait for each separate course to come around. Finally, the proposed consolidation will not only provide flexibility for students when planning their courses but will also free up time and credit hours in the upper division offerings within the Biology Program that can be filled with other courses that faculty may be interested in teaching and students may be interested in taking.2. With the creation of the new course BIOL 427/BIOL 427L, there is no longer a need for BIOL 421/BIOL 421L Plant Physiology and BIOL 423/BIOL 423L Plant Anatomy.

Change Item Description	**Department Justification**
List all proposed changes to the program:	1. Add a new course, BIOL 427/BIOL 427L Plant Anatomy and Physiology/Plant Anatomy and Physiology Laboratory as a choice in the Additional Biology courses: Category 3 Anatomical and Physiological.2. Inactivate BIOL 421/BIOL 421L Plant Physiology, and BIOL 423/BIOL 423L Plant Anatomy.3. BIOL was capitalized in the SLO mapping to be consistent in formatting.
Describe discussions about this proposal within the department and outcomes.	The changes were discussed with the department head and faculty within the department in August 2023 to ensure that this change would not have a negative effect on the courses that other faculty teach and/or the ability of students to take the courses they need. The changes were approved by the faculty. No other departments are affected.

3424: Mathematics	**BS**	**Program Modification - Approved**	**Gurka | Stern**

UCC Discussion: The course, MATH 370: Discrete Structure II, is being inactivated. The course has not been taught in over 15 years and there is not a current demand for it.

Change Item Description	**Department Justification**
List all proposed changes to the program:	Removing MATH 370: Discrete Structures II as a possible elective.
Describe discussions about this proposal within the department and outcomes.	The tenured/tenure-track faculty of the Department of Mathematics and Statistics discussed and agreed upon inactivating MATH 370 on 9/22/2023 and thus removing it from the relevant programs.

M460: Mathematics	**MNR**	**Program Modification - Approved**	**Gurka | Stern**

UCC Discussion: The course, MATH 370: Discrete Structure II, is being inactivated. The course has not been taught in over 15 years and there is not a current demand for it.

Change Item Description	**Department Justification**
List all proposed changes to the program:	Removing MATH 370: Discrete Structures II as a possible elective.
Describe discussions about this proposal within the department and outcomes.	The tenured/tenure-track faculty of the Department of Mathematics and Statistics discussed and agreed upon inactivating MATH 370 on 9/22/2023 and thus removing it from the relevant programs.

Effective Term - Summer 2024 **Courses**

The following is a summary: Additional information can be found on the individual curriculum proposals.

Title	**Credits**	**Committee Action**	**Motion | Second**
ANTH 478: Professional Issues in Forensic Science	**3**	**Course Modification - Approved**	**Stern | Gurka**

UCC Discussion: 1) Changing the semester typically offered from fall to spring. This change actually occurred several years ago, but the correct semester wasn't updated in the system so it shows up incorrectly on the web catalog, misleading students. 2) Revised and updated SLOs to better reflect senior course content.

Change Item Description	**Old**	**New**
Please indicate the semester(s) in which the course will typically be offered:	Fall	Spring

BIOL 427: Plant Anatomy and Physiology	**3**	**Course Addition - Approved**	**Gurka | Milstein**

UCC Discussion: While this course is being proposed as a new course, it is actually a redesign/consolidation of two existing courses that will be inactivated. The two existing courses are BIOL 421/421L, Plant Physiology and BIOL 423/423L Plant Anatomy. The goal is to consolidate these two courses into one course (BIOL 427/427L, Plant Anatomy and Physiology) that will be taught every even numbered fall semester. Currently, plant physiology and plant anatomy alternate as upper division options in the spring semesters (physiology is taught during even numbered spring semesters and anatomy is taught during odd numbered spring semesters). Even though plant physiology (content from BIOL 421) and plant anatomy (content from BIOl 423) will not be covered in as much depth, consolidating the two courses will help students understand the relationship between plant structure and function by connecting the anatomical features with the physiological processes in a single semester rather than needing to wait for each separate course to come around. Finally, the proposed consolidation will not only provide flexibility for students when planning their courses but will also free up time and credit hours in the upper division offerings within the Biology Program that can be filled with other courses that faculty may be interested in teaching and students may be interested in taking.

Change Item Description	Old	New
New Proposal: No differences to report		

BIOL 427L: Plant Anatomy and Physiology Laboratory	**2**	**Course Addition - Approved**	**Gurka | Milstein**

UCC Discussion: While this course is being proposed as a new course, it is actually a redesign/consolidation of two existing courses that will be inactivated. The two existing courses are BIOL 421/421L, Plant Physiology and BIOL 423/423L Plant Anatomy. The goal is to consolidate these two courses into one course (BIOL 427/427L, Plant Anatomy and Physiology) that will be taught every even numbered fall semester. Currently, plant physiology and plant anatomy alternate as upper division options in the spring semesters (physiology is taught during even numbered spring semesters and anatomy is taught during odd numbered spring semesters). Even though plant physiology (content from BIOL 421) and plant anatomy (content from BIOl 423) will not be covered in as much depth, consolidating the two courses will help students understand the relationship between plant structure and function by connecting the anatomical features with the physiological processes in a single semester rather than needing to wait for each separate course to come around. Finally, the proposed consolidation will not only provide flexibility for students when planning their courses but will also free up time and credit hours in the upper division offerings within the Biology Program that can be filled with other courses that faculty may be interested in teaching and students may be interested in taking.

Change Item Description	Old	New
New Proposal: No differences to report		

CSCI 322: Embedded Systems	**3**	**Course Modification - Approved**	**Stern | Gurka**

UCC Discussion: 1. Academic engagement and student prep minutes, typical semester offered, topical course outline, and SLOs were filled in (information was not transferred when CIM was implemented).2. Prerequisites were updated from CSCI 321 to "CSCI 241; or CSCI 112 and ENGR 140". This ensures that electrical and computer engineering students as well as computer science students have sufficient hands-on wiring experience and programming skills prior to taking this course. 3. Course description was updated to reflect changes made to this course which meet the needs of students in both majors. 4. Note: EECE 337 is a required course for Electrical and Computer Engineering majors (CMU/CU Partnership Program), CSCI 322 is an elective for computer science majors. Because of the required vs not-required nature of the courses for both disciplines, and because the content is equivalent and valuable for both programs, the courses are offered at the same time and taught by one instructor. This equivalent listing allows for seats to be available for students who need this as a required course, while allowing others to take it as an elective.

Change Item Description	Old	New

Course description for the catalog:	Introduction to design of embedded systems. Topics include: basic computer electronics, embedded digital communications, and embedded software design.	Introduction to design of embedded systems. Skills associated with software development and debugging will be developed. Course uses modern system design platforms to create custom embedded firmware. Students will compare custom solutions to those involving the application of existing tools to control external peripherals, such as lights, sensors, and screens.
Prerequisites:	CSCI 321	CSCI 241; or CSCI 112 and ENGR 140

CSCI 330: Programming Languages	**3**	**Course Modification – Approved**	**Stern | Gurka**

UCC Discussion: 1) Academic engagement minutes and student preparation minutes filled in (previously blank). 2) Typical semesters offered, SLOs, Topical Course Outline added (previously not transferred into CIM).

Change Item Description	**Old**	**New**
Please indicate the semester(s) in which the course will typically be offered:		Fall/Spring

CSCI 425: Python Machine Learning	**3**	**Course Modification - Approved**	**Stern | Gurka**

UCC Discussion: 1) CSCI 365 was removed as a prereq, CSCI 112; and one of the following: STAT 200, STAT 215, STAT 241, or CISB 241 were added. AI/machine learning is an important skill for CS and other majors. Removing CSCI 365 as a prerequisite and adding CSCI 112; and one of the following: STAT 200, STAT 215, STAT 241, or CISB 241 will allow many students to take the course as an elective from various programs. Students will have enough background to take the course even without CSC 365. Changing the prerequisites will make the Professional Certificate in Data Science program more achievable to non-CS majors.2) Importance of Explainability of Models was added to the topical course outline to keep the course content current to the field.3) "Explain the bias and importance of the explainability of models." was added to the list of SLOs to assess the addition of "Importance of Explainability of Models" to the topical outline. 4) SLOs were cleaned up to use appropriate Bloom's taxonomy for a 400-level course.

Change Item Description	**Old**	**New**
Prerequisites:	CSCI 365	CSCI 112; and one of the following: STAT 200, STAT 215, STAT 241, or CISB 241

CSCI 445: Computer Graphics	**3**	**Course Modification - Approved**	**Stern | Gurka**

UCC Discussion: Academic engagement minutes and student preparation minutes, typical semester offered, SLOs, and topical course outline were added (info was not transferred when CIM was implemented).

Change Item Description	Old	New
Please indicate the semester(s) in which the course will typically be offered:		Fall

CSCI 450: Compiler Structure	**3**	**Course Modification - Approved**	**Stern | Gurka**

UCC Discussion: 1) Academic engagement minutes and student preparation minutes, typical semester offered, SLOs, and topical course outline were added (info was not transferred when CIM was implemented). 2) CSCI 330 was moved from being a co-req to a prereq that may be taken concurrently. This corrects an error in how the course should be taken from the student's perspective. 3) Course description was updated to remove pedagogical elements and remove 'as time permits'.

Change Item Description	Old	New
Course description for the catalog:	Structures and techniques used in compiler writing are discussed with emphasis on scanners, symbol tables, parsers and code generation. The front end of a recursive descent parser is written for the semester project. Error analysis and code optimization are discussed as time permits.	Structures and techniques used in compiler writing, with emphasis on scanners, symbol tables, parsers, and code generation. Error analysis and code optimization are discussed.
Prerequisites:	CSCI 241	CSCI 241 and CSCI 330 (may be taken concurrently)
Corequisites:	CSCI 330	

CSCI 465: Network/Application Security	**3**	**Course Modification - Approved**	**Stern | Gurka**

UCC Discussion: 1) The course description was slightly modified to reflect the minor changes in the topics covered in class. 2) Academic engagement minutes and student preparation minutes, typical semester offered, SLOs, and topical course outline were added (info was not transferred when CIM was implemented).

Change Item Description	Old	New

Course description for the catalog:	Exploration of advanced topics in network and web-based application security such as network vulnerability management, network monitoring, intrusion detection and prevention, government and industry security compliances, wireless security, most common web application security flaws, browser and database security principles, and authentication and authorization in web applications.	Exploration of advanced topics in network and web-based application security, such as network exploitations and mitigations; using common network utility tools and building new tools programmatically; most common web application security flaws; browser and database security principles; and authentication and authorization in web applications.
Please indicate the semester(s) in which the course will typically be offered:		Fall

EECE 235: Digital Logic	**3**	**Course Modification - Approved**	**Gurka | Stern**

UCC Discussion: 1. CSCI 111 was added as a prereq option to allow greater flexibility in scheduling for electrical and computer engineering students taking the course. 2. Academic engagement minutes and student preparation minutes, SLOs, and topical course outline were added (info was not transferred when CIM was implemented). 3. Updated semester offered to reflect faculty workload needs and course availability. No program modification needed since this is a CMU/CU Boulder Partnership program - the program sheet is overseen by the CU curriculum committee.

Change Item Description	**Old**	**New**
Please indicate the semester(s) in which the course will typically be offered:	Spring	Fall
Prerequisites:	CSCI 130	CSCI 130 or CSCI 111

EECE 244: Applications of Embedded Systems	**3**	**Course Modification - Approved**	**Gurka | Stern**

UCC Discussion: The topical course outline and SLOs were updated to best reflect recent changes to the course. The design process was added to the outline to give students the ability to participate in more challenging projects and present at the Student Showcase. Design of PCBs was removed from the outline because this topic is more comprehensively covered in an upper-division course.

Change Item Description	**Old**	**New**

Topical Course Outline:	Flowcharts for software Block diagrams for hardware Wireless communication to devices Motor drive and speed control circuits Printed Circuit Board single layer layout for prototyping circuits and sensor interfacing Remote and/or wireless control of robots	Flowcharts for software Block diagrams for hardware Wireless communication to devices Engineering design process Motor drive and speed control circuits

ENGR 125: Computer-Aided Design and Fabrication	**3**	**Course Modification - Approved**	**Gurka | Stern**

UCC Discussion: 1) Updated course description to clarify course content, begin with a noun, and remove pedagogical verbiage. 2) Academic engagement minutes and student preparation minutes, terms typically offered, SLOs, and topical course outline were added (info was not transferred when CIM was implemented).

Change Item Description	**Old**	**New**
Course description for the catalog:	Introduces engineering design graphics. Includes learning a contemporary computer-aided design (CAD) software application and relevant engineering graphics concepts, such as orthographic projection, sections, engineering drawing practices, geometric dimensioning and tolerancing, and an introduction to manufacturing methods. Entails a final design project using rapid prototyping.	Introduction to engineering design with a contemporary computer-aided design (CAD) software application. Includes relevant engineering graphics concepts such as orthographic projection, sections, creation of 3D models, and engineering drawing practices.

ENGR 261: Statics and Structures	**3**	**Course Modification - Approved**	**Gurka | Stern**

UCC Discussion: 1) Course description was updated to clarify course content and remove pedagogical elements per the Curriculum Manual. 2) Academic engagement minutes and student preparation minutes, typical semesters offered, SLOs, and topical course outline were added (info was not transferred when CIM was implemented).

Change Item Description	**Old**	**New**

Course description for the catalog:	Covers statics of particles, equivalent force systems, rigid bodies, equilibrium of rigid bodies in two and three dimensions, analysis of truss and frame structures, uniaxially-loaded members, deformation and stress, distributed force systems, friction. Lectures and homework assignments involve computer work and hands-on laboratory work documented by written reports.	Statics of particles, equivalent force systems, rigid bodies, equilibrium of rigid bodies in two and three dimensions, analysis of truss and frame structures, distributed force systems including centroid calculations, and friction.

ENGR 305: Engineering Economics and Ethics	**2**	**Course Modification - Approved**	**Gurka | Stern**

UCC Discussion: 1) Changed prereqs from "ENGR 101, ENGR 140; and MATH 135 or MATH 151" to ENGR 261 (may be taken concurrently). The original prereq requirement unintentionally enabled students in their first year of the program to take this 300-level course. Taking ENGR 261 prior to or with ENGR 305 ensures students have a solid foundation in engineering principles, problem-solving skills, and mathematical knowledge. 2) The ampersand was removed from the full course title to comply with current curriculum standards. 3) SLO verbiage was cleaned up.

Change Item Description	**Old**	**New**
Course name:	Engineering Economics Ethics	Engineering Economics and Ethics
Prerequisites:	ENGR 101, ENGR 140; and MATH 135 or MATH 151	ENGR 261 (may be taken concurrently)

ENGR 312: Engineering Thermodynamics	**3**	**Course Modification - Approved**	**Gurka | Stern**

UCC Discussion: 1. Academic engagement minutes and student preparation minutes, typical semester offered, SLOs, and topical course outline were added (info was not transferred when CIM was implemented). 2. Course description updated to better reflect content covered in the course. 3. ENGR 261 added as a prerequisite to ensure students have the appropriate foundational knowledge prior to taking ENGR 312. Prereq was previously MATH 152 or MATH 136 (Calculus 2) and PHYS 131/131L (Fundamental Physics and Lab) - these were removed from the list since they are prereqs for ENGR 261.

Change Item Description	**Old**	**New**

Course description for the catalog (do not list pre-reqs, co-reqs, and terms typically offered):	An introductory course in thermodynamics, the science of heat energy conversion. Develops understanding of energy, heat, work, efficiency, and ideal thermodynamic cycles. Teaches first and second laws of thermodynamics and perfect gas law.	Introduction to engineering thermodynamics, the science of heat energy conversion. Develops an understanding of the interrelations of energy, heat, and work. Covers the first and second laws of thermodynamics applied to closed and open systems, the ideal gas law relations, thermodynamic properties of materials, and ideal thermodynamic cycles.
Prerequisites:	MATH 136 or MATH 152, and PHYS 131/PHYS 131L	ENGR 261

ENGR 317: Fundamentals of Circuits and Electronics 2	**Course Modification - Approved**	**Gurka | Stern**

UCC Discussion: Explanation of overlapping content, academic engagement minutes and student preparation minutes, typical semester offered, SLOs, and topical course outline were added (info was not transferred when CIM was implemented). There is overlapping content with this course and EECE 225/225L. EECE 225/225L is a set of electrical and computer engineering courses that cover all of the topics in this course and more. EECE 225/225L should be considered a more rigorous version of ENGR 317/317L. The reason behind this is that introduction to circuits and electronics is a foundational course that is core to the electrical and computer engineering discipline, but it is only an introduction to the topic for the mechanical engineering technology program.

Change Item Description	**Old**	**New**
Is there overlapping content with present courses offered?	See justification for explanation of overlapping content.	

ENGR 317L: Fundamentals of Circuits and Electronics Laboratory	**1**	**Course Modification - Approved**	**Gurka | Stern**

UCC Discussion: 1) Explanation of overlapping content, academic engagement minutes and student preparation minutes, typical semester offered, SLOs, and topical course outline were added (info was not transferred when CIM was implemented).2) Course description was updated to match the lecture component to comply with curriculum policy. 3) Explanation of overlapping content: There is overlapping content with this course and EECE 225/225L. EECE 225/225L is a set of electrical and computer engineering courses that cover all of the topics in this course and more. EECE 225/225L should be considered a more rigorous version of ENGR 317/317L. The reason behind this is that introduction to circuits and electronics is a foundational course that is core to the electrical and computer engineering discipline, but it is only an introduction to the topic for the mechanical engineering technology program.

Change Item Description	Old	New
Course description for the catalog (do not list pre-reqs, co-reqs, and terms typically offered):	Lab component required for ENGR 317.	Introduction to resistive circuits, capacitors, inductors, transient analysis, sine waves, AC circuit analysis, resonance, and transformers.

ENGR 321: Fluid Mechanics	**3**	**Course Modification - Tabled**	**Stern | Milstein**

UCC Discussion: This proposal was tabled for further clarification on SLO verbiage.

ENGR 336: Heat and Power	**3**	**Course Modification - Approved**	**Gurka | Stern**

UCC Discussion: 1. Academic engagement minutes and student preparation minutes, typical semester offered, SLOs, and topical course outline were added (info was not transferred when CIM was implemented). 2. Course description updated to better reflect content covered in the course.

Change Item Description	Old	New
Course description for the catalog (do not list pre-reqs, co-reqs, and terms typically offered):	Discussion of major modes of heat transfer. Includes steady and transient conduction, internal and external convection, and radiation with emphasis on industrial applications. Heat exchanger and boiler analysis and related codes and standards discussed.	Investigation of major modes of heat transfer, including steady and transient conduction, internal and external convection, and radiation. Emphasis is placed on application to industrial processes. Analyses include processes like heat treatment of materials and heat exchangers using simulation.

ENGR 343: Dynamics	**3**	**Course Modification - Approved**	**Gurka | Stern**

UCC Discussion: Academic engagement minutes and student preparation minutes, typical semester offered, SLOs, and topical course outline were added (info was not transferred when CIM was implemented).

ENGR 345: Engineering Integration I	**3**	**Course Modification - Approved**	**Gurka | Stern**

UCC Discussion: Academic engagement minutes and student preparation minutes, typical semester offered, SLOs, and topical course outline were added (info was not transferred when CIM was implemented).

ENGR 385: Engineering Integration II	**3**	**Course Modification - Approved**	**Gurka | Stern**

UCC Discussion: Academic engagement minutes and student preparation minutes, typical semester offered, SLOs, and topical course outline were added (info was not transferred when CIM was implemented).

ENGR 401: Professionalism Seminar	**1**	**Course Modification - Approved**	**Gurka | Stern**

UCC Discussion: 1) Changed prereq from "junior standing or higher" to ENGR 345 (may be taken concurrently). We tend to get students in this 400-level course who have enough credits to satisfy the 'junior standing' requirement, yet they're only in the first or second year of the mechanical engineering technology program. We are changing the prereq to ENGR 345, and allowing it to be taken concurrently, to ensure the student is far enough along in the engineering program to make the content of ENGR 401 applicable to the career they'll be seeking in the next year or two. Also, since preparing job application materials is a significant component of ENGR 401, students will be able to add the project experience gained in ENGR 345 to their resume under the guidance of the ENGR 401 course instructor. 2) Minor change to SLO 4 to use a higher-order verb.

Change Item Description	**Old**	**New**
Prerequisites:	Junior standing or higher	ENGR 345 (may be taken concurrently)

ENGR 427: Engineering Measurements	**2**	**Course Modification - Approved**	**Gurka | Stern**

UCC Discussion: 1) Course description was modified to remove mention of posters (not done in this course) and to include data analysis (definitely done in this course). 2) Academic engagement minutes and student preparation minutes, typical semester offered, SLOs, and topical course outline were added (info was not transferred when CIM was implemented).

Change Item Description	**Old**	**New**

Course description for the catalog:	Methods of experimentation and data analysis. Specific skills used in planning an experiment, applying sound procedures, keeping proper records, and communicating results orally, with posters and in written reports developed.	Methods of experimentation and data analysis. Specific skills used in planning an experiment, applying sound procedures, data analysis, and written and oral communication of results.

ENGR 435: Industrial Controls	**3**	**Course Modification - Approved**	**Gurka | Stern**

UCC Discussion: 1. Academic engagement minutes and student preparation minutes, typical semester offered, SLOs, and topical course outline were added (info was not transferred when CIM was implemented). 2. Course description updated to better reflect content covered in the course. 3. Prerequisite updated to include lab portion (ENGR 317L) of original prerequisite (ENGR 317).

Change Item Description	**Old**	**New**
Course description for the catalog:	Fundamentals of control of manufacturing processes. Applications of relay logic, input/output devices, and programmable logic controllers (PLC). Design of complete control circuits, selection of components, and cost estimation. PLC programming for discrete event control and for analog applications.	Fundamentals of electronic control of industrial systems via programmable logic controllers for discrete event control and analog applications. Applications include: relay logic, input/output field devices, programmable logic controllers, human machine interfaces, and variable frequency drives. Topics covered include: design and programming of complete control circuits, selecting appropriate components, and troubleshooting improperly functioning systems.
Prerequisites:	ENGR 317	ENGR 317/ENGR 317L

ENGR 445: MET Design Project I	**3**	**Course Modification - Approved**	**Gurka | Stern**

UCC Discussion: Course description was updated to include detailed information regarding project management skills covered. SLOs were rewritten to better assess critical concepts covered in this portion of the two-semester capstone course.

Change Item Description	**Old**	**New**

Course description for the catalog:	First of a two-course comprehensive group capstone design experience, focusing on the design proposal. This sequence applies material from prior course work, along with concepts of project management, problem definition; determining design requirements, design optimization, engineering analysis, proof-of-concept prototype, and CAD drawings.	First of a two-course comprehensive group capstone design experience, focusing on the design proposal. This sequence applies material from prior coursework and introduces project management concepts such as defining the project scope, specifying design requirements, analyzing engineering design, prototyping proofs-of-concept, creating technical drawings, and preparing project reports and documentation.

ENGR 455: Fluid Power Systems	**3**	**Course Modification - Approved**	**Gurka | Stern**

UCC Discussion: 1. Academic engagement minutes and student preparation minutes, typical semester offered, SLOs, and topical course outline were added (info was not transferred when CIM was implemented). 2. Course description updated to better reflect content covered in the course.

Change Item Description	**Old**	**New**
Course description for the catalog:	Coverage of the fundamentals of hydraulic and pneumatic systems and their components, fluid power circuit design, analysis, and troubleshooting for industrial applications, introduction to electro-pneumatics.	Fundamentals and electronic control of hydraulic and pneumatic systems and their respective components. Includes designing fluid power systems, specifying necessary components, and systemic troubleshooting of circuits commonly experienced in industrial applications.

ENGR 485: MET Design Project II	**3**	**Course Modification - Approved**	**Gurka | Stern**

UCC Discussion: 1. Academic engagement minutes and student preparation minutes, typical semester offered, SLOs, and topical course outline were added (info was not transferred when CIM was implemented). 2. Course description updated to better reflect content covered in the course.

Change Item Description	**Old**	**New**

Course description for the catalog:	Second part of a two-course capstone design experience. Refinement of prototype, design optimization, fabrication, testing and evaluation. Students orally present the final design, prepare a written report and operation manual for the product.	Second of a two-course comprehensive group capstone design experience, focusing on design optimization, fabrication, testing, and evaluation. Students apply their project management skills to complete the project and orally present the final design, write a final project report, and develop proper documentation for the final product.

ENVS 204: Introduction to Ecosystem Management	**3**	**Course Modification - Approved**	**Stern | Milstein**

UCC Discussion: 1) Academic engagement minutes and student preparation minutes, typical semester offered, SLOs, and topical course outline were added (info was not transferred when CIM was implemented). 2) Prereq of ENVS 101 was added as an 'or' option to ensure students transferring to this program can more easily continue.

Change Item Description	**Old**	**New**
Prerequisites:	ENVS 104 or permission of instructor	ENVS 104 or ENVS 101

ENVS 204L: Introduction to Ecosystem Management Laboratory	**1**	**Course Modification - Approved**	**Stern | Milstein**

UCC Discussion: 1. Changed course description to match lecture course, per Curriculum Manual. 2. Removed permission of Instructor, per Curriculum Manual. 3. Prereq of ENVS 101 was added as an 'or' option to ensure students transferring to this program can more easily continue. 4. Academic engagement minutes and student preparation minutes, typical semester offered, SLOs, and topical course outline were added (info was not transferred when CIM was implemented).

Change Item Description	**Old**	**New**

Course description for the catalog (do not list pre-reqs, co-reqs, and terms typically offered):	Lab component required for ENVS 204.	Scientific management of natural resources in a changing environment. Problem solving emphasized in a case study approach to ecosystem management. Theories of ecology, economics, fisheries and wildlife management, biology, and sociology to solve problems using realistic and complex landscape scenarios.
Prerequisites:	ENVS 104 or permission of instructor	ENVS 104 or ENVS 101

HMGT 350: Private and Commercial Recreation Systems	**3**	**Course Inactivation - Approved**	**Gurka | Stern**

UCC Discussion: The department is cleaning up catalog entries and does not plan to offer this course any more. This course is part of the old travel and tourism concentration, which is no longer offered. HMGT 350 Private and Commercial Recreation Systems was taught in 2021 and 2022 as part of the outdoor recreation program (OREC). The OREC program director decided to incorporate parts of this course into OREC courses and no longer needs this specific HMGT course. Since the business department doesn't need it, either, the course is being inactivated.

Change Item Description	**Old**	**New**
Delete Proposal: No differences to report		

HMGT 351: Community Tourism Systems	**3**	**Course Inactivation - Approved**	**Gurka | Stern**

UCC Discussion: The department is cleaning up catalog entries and does not plan to offer this course anymore. This course is part of the old travel and tourism concentration, which is no longer offered. HMGT 351, in particular, has not been taught for at least 10 years.

Change Item Description	**Old**	**New**
Delete Proposal: No differences to report		

HMGT 352: Public Recreation Systems	**3**	**Course Inactivation - Approved**	**Gurka | Stern**

UCC Discussion: The department is cleaning up catalog entries and does not plan to offer this course anymore. This course is part of the old travel and tourism concentration, which is no longer offered. HMGT 352, in particular, has not been taught for at least 10 years.

Change Item Description	**Old**	**New**
Delete Proposal: No differences to report		

HMGT 400: Hospitality Security and Safety	**3**	**Course Inactivation - Approved**	**Gurka | Stern**

UCC Discussion: The department is cleaning up catalog entries and does not plan to offer this course anymore. This course is part of the old travel and tourism concentration, which is no longer offered. HMGT 400, in particular, has not been taught for at least 10 years.

Change Item Description	Old	New
Delete Proposal: No differences to report		

NURS 101: Pharmacology Calculations	**1**	**Course Modification - Approved**	**Gurka | Stern**

UCC Discussion: SLOs, typical semester offered, engagement minutes, and Topical Course Outline were added (info was not transferred when CIM was implemented).

NURS 106: Adult Concepts I	**3**	**Course Modification - Approved**	**Gurka | Stern**

UCC Discussion: Academic engagement minutes and student preparation minutes, typical semester offered, SLOs, and topical course outline were added (info was not transferred when CIM was implemented).

NURS 112: Basic Concepts of Pharmacology	**3**	**Course Modification - Approved**	**Gurka | Stern**

UCC Discussion: 1. The content that needs to be covered in NURS 112 is too much for a 2-credit course. To properly prepare students for subsequent courses, students and faculty have been spending non-class time to cover the content. Conveniently, the content covered in NURS 117 is not enough to fill a 4-credit course. To balance out the time needed to adequately cover both topics, NURS 117 is being reduced to 3 credits, and NURS 112 is being increased to 3 credits. The content from each course will remain the same, the credit hour adjustment will just make the academic engagement and student prep minutes more accurate to what is currently being done. 2. Academic engagement minutes and student preparation minutes, SLOs, and topical course outline were added (info was not transferred when CIM was implemented).

Change Item Description	Old	New
Credit hours:	2	3

NURS 117: Obstetrics and Pediatrics	**3**	**Course Modification - Approved**	**Gurka | Stern**

UCC Discussion: 1. The content that needs to be covered in NURS 112 is too much for a 2-credit course. To properly prepare students for subsequent courses, students and faculty have been spending non-class time to cover the content. Conveniently, the content covered in NURS 117 is not enough to fill a 4-credit course. To balance out the time needed to adequately cover both topics, NURS 117 is being reduced to 3 credits, and NURS 112 is being increased to 3 credits. The content from each course will remain the same, the credit hour adjustment will just make the academic engagement and student prep minutes more accurate to what is currently being done. 2. Academic engagement minutes and student preparation minutes, typical semester offered, SLOs, and topical course outline were added (info was not transferred when CIM was implemented).

Change Item Description	Old	New
Credit hours:	4	3

NURS 172L: Adult Concepts II Lab	**3**	**Course Modification - Approved**	**Gurka | Stern**

UCC Discussion: 1) Course description was updated to match the lecture course, per current curriculum policy. 2) Academic engagement minutes and student preparation minutes, typical semester offered, and SLOs were added (info was not transferred when CIM was implemented).

Change Item Description	Old	New
Course description for the catalog:	Lab component required for NURS 172.	Application of clinical practicum to apply nursing theory in medical surgical nursing using the nursing process to assist clients with more complex health care needs.

NURS 432: Capstone Leadership for the RN	**4**	**Course Modification - Approved**	**Gurka | Stern**

UCC Discussion: Removal of the topic and course objective for the ePortfolio project as ePortfolios are not currently used in practice. Students in the course will still be required to complete a capstone completion project to show mastery of knowledge gained in the RN to BSN program and a new course objective has been written for this project.

Change Item Description	Old	New

Course description for the catalog:	Contributions of the registered nurse to quality healthcare through lifelong learning and professional development impacts quality of patient care and safety. The course will provide structure to develop and implement a formal professional plan to exhibit competency as a Baccalaureate prepared nurse in an ever-changing practice environment.	Exploration of the registered nurse's role in healthcare through lifelong learning. Students will evaluate how professional development affects patient care, quality, and safety. The course will provide structure to develop and implement a formal professional plan to exhibit competency as a Baccalaureate-prepared nurse in an ever-changing practice environment.
Student learning outcomes:	Create or revise an electronic professional portfolio.	Create a capstone completion project that incorporates knowledge ganed throughout the RN to BSN program.