Colorado School of Mines – UNDERGRADUATE COUNCIL MEETING MINUTES
January 8, 4:00 – 5:00 pm, via Zoom

Attendees:

Voting Members: 19 total (10 needed for quorum). Quorum was present.

P	Ventzi Karaivanov (chair)	P	Erik Menke (CH)	P	Adam Olsen (LB)	P	Heather Lammers for Rennie Kaunda (MN)
P	Jason Ganley (CBE)	P	Jeremy Suiter (EB)	P	Emmanuel De Moor (MME)	P	Mathias Burisch Hassel (GE)
P	Rob Thompson (CS)	P	Ge Jin (GP)	P	Jeff Wheeler (ME)	P	Eliza Buhrer (HASS)
P	Linda Battalora (PE)	P	Hongyan Liu (CEE)	P	Hisham Sager (EE)	P	Tom Powell (USG)
P	Jack Bringardner (EDS)	P	Gus Greivel (AMS)	P	Emily Smith for Chip Durfee (PH)		

Other Regular Attendees and Guests

	Sam Spiegel (Mines Online)	P	Vibhuti Dave (UGS)	P	Kristeen Serracino (AA)	P	Paul Myskiw (RO)
P	Karla Pérez-Vélez (CASA)		Danielle Boileau (CASA)		Cheryl Medford (GE)	P	D. Scott Heath (RO)
	Katie Ludwin (CASA)		Megan Sanders (Trefny Center)		Colin Terry (SL)		
	Luke Contreras (UA)		Julia Cable (UA)				

Special Guest(s): Kristoph Kinzli, Chelsea Salinas, Christian Beren

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Welcome Ventzi Karaivanov

During the previous UGC meeting, there was discussion regarding where EBGN321 is placed within all departmental degree plans as this course has a prerequisite of 60 credit hours. A survey will be published to collect data on the standing of EBGN321 among all programs.

Approval of Minutes – *December 11, 2024* Ventzi Karaivanov

MOTION: The motion to approve the previous meeting minutes was moved by J. Suiter and seconded by L. Battalora. The motion to approve the previous meeting minutes was approved with 15 approved, 0 opposed, and 3 abstentions.

Briefings and Information Items

Registrar's Office Paul Myskiw

The Registrar's Office is working to get students where they need to be and absorb waitlists. As of yesterday, 1,500 students still remain on waitlists. Many of these students are enrolled in less than 12 credits due to being waitlisted. P. Myskiw encouraged finding ways to absorb the waitlists as much as possible and strategizing to address the growing registration pressure to get students into courses.

- **Question:** T. Powell asked, how many students were waitlisted last year?
- **Answer:** P. Myskiw answered that last year, at this time, there were about 900 waitlisted students. There were less because it was at this time last year that Academic Affairs added waitlists of 20 to all courses. Many departments had not added waitlists at that time but this year, all departments have waitlists.

- **Question:** H. Liu asked, what if classroom capacity is already reached?
- **Answer:** P. Myskiw answered if a department or instructor is willing to increase capacity for their section but the room will not handle it, they are encouraged to go through scheduling@mines.edu to get a new room first and then increase capacity.

Undergraduate Studies Vibhuti Dave

Core Curriculum updates Continued

There was a situation where a student and their parents were upset because even though EBGN321 was placed in the Sophomore year, the student was not eligible to take the course. This is something that will need to be addressed. V. Dave also reminded the Council that all programs need to be adjusted to replace HASS200, Global Studies, with HASS215, FUTURES. Should this be administratively or done by programs individually? How should the 4-year plans be updated?

- **Comment:** E. Buhrer requested that the HASS215 course change be done administratively as many HASS courses require this course and it would be too much for one faculty member to update.
- **Comment:** G. Greivel added that the 4-year degree tables are difficult to update, and many programs have multiple tables. This would be best to do administratively to ensure correctness and consistency.
- **Comment:** P. Myskiw added that both the FUTURES course change in HASS and the 4-year degree plans will be updated administratively.

V. Dave encouraged all departments and programs to continue uploading course level learning outcomes (EE, GP, AMS, and PE have started this process). Also, please be sure to update program overview pages in the catalog using the template provided (CBE, EE, and PE have been updated so far).

4:20-4:25 pm

1 Curriculum Item(s) for Council Vote

***Please complete Canvas voting for the following curriculum item(s) by January 8th at 3:00 pm.**

1.1

PHYSICS		Chip Durfee
CIM 11/20		
1 program change:	BS-PHE: BS IN ENGINEERING PHYSICS	
	The Department of Physics is making some adjustments to our curriculum in response to the elimination of the CSCI 250 course (Python-Based Computing: Building a Sensor System), which had been a requirement. That was a programming course centered around interfacing with sensors. As part of the core, the programming instruction our students are getting is sufficient, so we will not be replacing that course with another. The reduction of our credit load by three credits allows us to fix a situation where we had two parts of our Senior Design sequence PHGN 471/472 (Senior Design Principles) and 481/482 (Senior Design Practice) that had 1/2 and 2 1/2 credits, respectively. Mines has moved to making all courses have integer credit assignment, so this makes that change official. The net effect on the program is that we are reducing the credit load for the degree by one credit. Finally, we are moving EBGN 321 (economics) from spring Junior year into the slot vacated by CSCI 250 in spring Sophomore year. This allows them to complete the core earlier and lightens a physics-heavy Junior year.	
4 course changes:	PHGN471: SENIOR DESIGN PRINCIPLES I	
	Changing credits from 0.5 to 1 credit hour.	

	PHGN472: SENIOR DESIGN PRINCIPLES II
	Changing credits from 0.5 to 1 credit hour.
	PHGN481: SENIOR DESIGN PRACTICE
	Changing credits from 2 ½ credits to 3 credit hours.
	PHGN482: SENIOR DESIGN PRACTICE
	Changing credits from 2 ½ credits to 3 credit hours.

Canvas Voting Results
BS-PHE program change: 12 approved, 1 opposed, 0 abstention, 0 additional discussion needed
PHGN471 course change: 14 approved, 0 opposed, 0 abstentions, 0 additional discussion needed
PHGN472 course change: 14 approved, 0 opposed, 0 abstentions, 0 additional discussion needed
PHGN481 course change: 14 approved, 0 opposed, 0 abstentions, 0 additional discussion needed
PHGN482 course change: 13 approved, 0 opposed, 0 abstentions, 0 additional discussion needed

1.2

Minor Changes – to be considered as a single vote

CBE		Jason Ganley
CIM 11/20; Provost 11/20		
1 new course:	CBEN428: ADVANCED REACTOR DESIGN	
	Professor Thornburg, whose full-time role is as a Senior Reaction Engineer at the National Renewable Energy Laboratory (NREL), has created a highly unique senior undergraduate and graduate student elective course on chemical reaction engineering and its applications to the worlds of research & development and next-generation manufacturing. Reaction engineering has become an increasingly rare discipline due to retirement waves, and very few practitioners have the means or opportunity to teach a unifying course on such a challenging subject matter. This elective teaches a survey of over 16 different types of real-world chemical reactors—both traditional units as well as emerging, renewable-energy-powered reactors—synthesizing information from over 185 peer-reviewed research articles, papers and scholarly texts. For each reactor type, this one-of-a-kind course curriculum emphasizes conceptual chemical engineering design principles and practical scale-up strategies to teach students how to derive the information required to successfully deploy the technology. Overall, this course prepares Mines students for career paths in applied academic or industrial research & development environments that demand knowledge of the design and commercialization of cutting-edge chemistry technologies. The course has been taught to completion once in-person in Spring 2024 (cross-listed as a CBEN 498/598 Special Topics elective) with exceptional student reviews, and it is currently being taught for a second time in Spring 2025. We seek to make it a permanent part of the Mines course catalog to be offered annually to seniors and graduate students. To the best of the Chemical and Biological Engineering (CBE) Department's knowledge, no academic course like this exists anywhere else within U.S. chemical engineering programs, offering a highly differentiated curriculum for Mines CBE.	

MME		Emmanuel De Moor
CIM 11/21; Provost 11/21		
1 new course:	MTGN440: MAGENTIC MATERIALS AND MODERN TECHNOLOGIES	
	Magnetism is a fundamental property of materials that is essential in their implementation in technology. However, few institutions incorporate magnetism into the curriculum for more than a single class period. By offering this course, Mines demonstrates the breadth of its expertise in materials to make it a top-of-mind institution for materials science and engineering. The Metallurgical and Materials Engineering department has thematic strengths in characterization of materials properties, and this course supports those areas, which also improves the scale and impact of Mines in these focus areas.	
CEE		Hongyan Liu
CIM 12/6; Provost 12/6		
1 new course:	CEEN317: EXPLORING ENGINEERING DYNAMICS	
	Dynamics, a fundamental engineering mechanics subject, is the study of forces and their effect on the motion of bodies. Engineers need to appreciate how structures (buildings, bridges, roads, etc.) respond to various loads, such as gravity, wind, earthquakes, and traffic. It is essential that engineers can recognize when static analysis is insufficient for making sound decisions regarding design recommendations for public health and safety regarding construction of our built environment. This knowledge is fundamental to ensuring that structures are safe, stable, and durable. This course will emphasize practical problem-solving skills tailored to design engineering principles. The course is fully intended to be a highly accessible, low impact exploration focusing on fundamental concepts. In addition, the offer is critical as it provides content to round out the Engineering Mechanics Series which includes. Statics, Dynamics, Mechanics of Materials, and Fluid Mechanics. Exploring Engineering Dynamics (CEEN 317) also embraces the goals of Mines@150 keeping intact the sound fundamental base our graduates are renowned for and will facilitate professional growth especially early in their careers. The course will be delivered 100% in person, at least initially. However, movement to an on-line format is not precluded from future offerings if deemed necessary.	

Canvas Voting Results
CBEN428 new course: 14 approved, 0 opposed, 0 abstentions, 0 additional discussion needed
MTGN440 new course: 15 approved, 0 opposed, 0 abstentions, 0 additional discussion needed
CEEN317 new course: 14 approved, 0 opposed, 0 abstentions, 0 additional discussion needed

4:25-4:30 pm

2 Continued Business

2.1

CEE		Hongyan Liu
CIM 12/4		

3 program change:	BS-CE: BS IN CIVIL ENGINEERING
	The changes are made based on recent CEE faculty vote of reduce credit plan for Civil. Remove GEGN101, MEGN315 and 1 free elective; Add CE version of Engineering Dynamics (CEEN317).
	BS-CONSTR: BS IN CONSTRUCTION ENGINEERING
	Changes are made based on recent CEE faculty vote of reduce credit plan for Construction. Add CEEN315, Remove CHGN122, PHGN200, GEGN101; Make CHGN122/PHGN200/GEGN101, CBEN101 as option for students to choose +4 Material/Env track, add CHGN122 Underground track, add GEGN101 Robotics track, add PHGN200.
	BS-EVE: BS IN ENVIRONMENTAL ENGINEERING
	The changes are made based on the current CEE faculty vote to reduce the credit plan for ENV. Remove PHGN200.

These program changes will be voted on next week. Please look out for discussion on Canvas to post any questions and to vote by January 22nd at 3:00 pm.

4:30-5:00 pm

3 New Business

3.1

EE		Hisham Sager
CIM 12/6		
1 program change:	BS-EE: BS IN ELECTRICAL ENGINEERING	
	1) Updated language, 2) Added EENG484 as a new EE elective: this course was recently approved as a new course, based on the special topics course were previously allowed to count as an EE elective (EENG498: Adv. Embedded Systems), 3) Added MEGN465 as a new EE elective: When this was a special topics course last year, we approved it as an EE elective by way of course exceptions. Since the contents and learning objectives have remained the same with the new course code, we would like to officially make this an approved EE elective, and 4) Moved EBGN321 from the sophomore year to junior year, which required swapping EBNG321 with MATH332 on the flowchart.	
5 course deactivations:	EENG390: ENERGY, ELECTRICITY, RENEWAL ENERGY, AND ELECTRIC POWER GRID	
	Course has not been offered in several years and there are no plans to offer this course again. Deactivating this course will create opportunities for development of new EE electives.	
	EENG413: ANALOG AND DIGITAL COMMUNICATION SYSTEMS	
	Course has not been offered in several years and there are no plans to offer this course again. Deactivating this course will create opportunities for development of new EE electives.	
	EENG481: ANALYSIS AND DESIGN OF ADVANCED ENERGY SYSTEMS	
	Course has not been offered in several years and there are no plans to offer this course again. Deactivating this course will create	

	opportunities for development of new EE electives.
	EENG486: ELECTROMAGNETIC FIELDS AND WAVES
	Course has not been offered in several years and there are no plans to offer this course again. Deactivating this course will create opportunities for development of new EE electives.
	EENG489: COMPUTATIONAL METHODS IN ENERGY SYSTEMS AND POWER ELECTRONICS
	Course has not been offered in several years and there are no plans to offer this course again. Deactivating this course will create opportunities for development of new EE electives.
1 course change:	EENG393: FE ON INTEGRATED CIRCUITS AND ELECTRONICS PRACTICUM
	Update course delivery to include online.
1 new course:	EENG424: ELECTROMAGNETIC FIELDS AND WAVES
	We are updating the course number for EM FIELDS & WAVES to more accurately reflect the correct sequence of the AWC courses. The course code used to be EENG486. To make this number change, we deactivated the old course (as advised by Kristeen Serracino) and proposed a new course with this new number. This new course number also allows for the course to match a cross-listed GR course (EENG524); the EE dept is currently working on developing a proposal for that new GR course.

The deactivated courses have been offered in several years and there are no plans to offer these courses in the future. EENG393 course change includes adding online modality. The EE program change includes updating program language, adding EENG484 and MEGN465 as electives, and moving EBGN321 to the junior year.

3.2

CS		Rob Thompson
CIM 12/9		
1 course change:	DSCI403: INTRODUCTION TO DATA SCIENCE	
	Replaced prerequisites with CSCI128 with a grade of C- or higher, MATH201 or MATH334	
CIM 12/30		
1 program change:	BS-CS: BS IN COMPUTER SCIENCE	
	Replaced HASS200 Global Studies with HASS215 FUTURES Moved the CS Elective and Free Elective present in every track to part of the CS Core for simplicity when viewing track requirements. CS General: Grouped into more accurate categories CS + Business: Replaced CSCI303 with CSCI413, updated list of eligible EBGN courses and grouped into more accurate categories CS + Computer Engineering: updated list of eligible EENG courses and grouped into more accurate categories CS + Data Science: Replaced CSCI303 with CSCI413, updated list of eligible MATH courses and grouped into more accurate categories CS + Entrepreneurship & Innovation: new proposed track to align with	

	university E&I initiatives CS + Research Honors: discontinuing, to be replaced with university-wide "+ Honors" distinction when approved CS + Robotics & Intelligent Systems: updated list of eligible EENG/MEGN courses and grouped into more accurate categories CS + Space: updated list of eligible EENG/MEGN courses and grouped into more accurate categories

The course change included updating the prerequisites to require a higher grade. The program changes are mostly clean up as it has been some time since the focus tracks were updated. The most notable change is dropping the focus track for Research Honors. Currently, there is a very small number of students pursuing this track each year so CS plans to be part of the university-wide Honors distinction.

3.3

EB		Jeremy Suiter
CIM 12/16		
1 program deactivation:	BS-ECO: BS IN ECONOMICS	
	Program deactivation.	
7 course deactivations:	EBGN230: INTRODUCTION TO BUSINESS	
	The topics of this course are covered in EBGN360, Introduction to Entrepreneurship. The department is now offering a broad range of introductory level business courses focused on topical areas (entrepreneurship, management, marketing, communication, accounting).	
	EBGN306: MANAGERIAL ACCOUNTING	
	Changed the title and learning outcomes of EBGN305 in a previous catalog to Survey of Accounting. EBGN305 now has topics from both Financial and Managerial Accounting and separate classes are not necessary.	
	EBGN401: ADVANCED TOPICS IN ECONOMICS	
	This class has not been offered in many years.	
	EBGN409: MATHEMATICAL ECONOMICS	
	This class is not required at the undergraduate level anymore, and anyone who is interested should take the 500-level version. Not needed for Economics or BEMS programs.	
	EBGN425: BUSINESS ANALYTICS	
	This course has been replaced in the curriculum by EBGN280, Introduction to Business Analytics.	
	EBGN444: INNOV8X	
	This class is now taught with the INNO course prefix outside of the EB department.	
	EBGN496: PAYNE SCHOLARS PROGRAM	
	This course is not well subscribed and is alternately available with the HNRS prefix.	

The BS in Economics degree is being deactivated along with the courses that pre-date the new BEMS degree.

3.4

QBE		Christian Beren
CIM 12/16		
1 program change:	BS-IBIO: BS IN QUANTITATIVE BIOSCIENCES AND ENGINEERING	
	The addition of the Honors track will provide QBE students with the opportunity to further their education and attain a higher degree of recognition in the process. We are expanding the entrepreneurship by taking it from 1 to 3 credit hours and encouraging students to undertake Senior Design projects as a means of honing their practical skills.	

This program change includes expanding the current one credit entrepreneurship seminar course to a 3 credit-hour course on the same topic. This drops one Bio tech elective which would be replaced by this course. Additionally, this change adds an Honors track which drops three more Bio tech electives but is replaced by a 1 credit research method course, 1 credit research communications course, and a QBE research seminar series.

- **Question:** V. Karaivanov asked, with this change, what is the total credit hours for the program?
- **Answer:** C. Beren answered both the regular and Honors track program will be 130 credit hours.

3.5

EDS		Chelsea Salinas/ Jack Bringardner
CIM 12/17		
1 program change:	BS-DSGN: BS IN DESIGN ENGINEERING	
	After Advisory Board and ABET reviews of the Design Engineering program, along with a request from the Dean to review our credit hour requirement, our undergraduate committee approved to update the Design Engineering program curriculum - reducing our credit hours to 126. We aimed to retain ABET required math/science and technical engineering content while expanding our upper-level Design Engineering elective structure, as recommended by our various constituents (advisory board, students, faculty, alumni). We also put forth in this proposal the removal of the Focus Area identification and transcription. The majority of our students choose the Individualized Focus Area currently. With this data confirming the projection of our students into the workplace, recommendations by our constituents and creation of a more streamlined assessment process for ABET, our undergraduate committee and departmental faculty approve the removal of defined Focus Areas. In lieu of the Focus Areas, we have proposed reallocation of the various elective courses taken to fulfill breadth and depth. We now propose three categories for Design Engineering Electives, Engineering Electives and Thematic Electives (advisor approved). Our undergraduate committee believes the new elective structure will maintain the degree flexibility sought through the Design Engineering program while providing organization and structure with a	

	stronger focus on program coursework. We have updated course codes and titles of our Integrative Design Studio courses in an effort to align more closely with other disciplines on campus as they have outlined their programming structure.
2 course deactivations:	EDNS191: INTRODUCTION TO INTEGRATIVE DESIGN
	The Design Engineering undergraduate program committee has recently proposed a restructuring of the program curricula and has determined it best for students to follow the core curriculum as closely as possible. ENDS 191 and EDNS 192 would be redundant courses for EDNS 151 and HASS 100, therefore, we recommend deactivating EDNS 191 and 192 to avoid confusion for students and to align better with the course curriculum.
	EDNS192: DESIGN AND HUMAN VALUES
	The Design Engineering undergraduate program committee has recently proposed a restructuring of the program curricula and has determined it best for students to follow the core curriculum as closely as possible. ENDS 191 and EDNS 192 would be redundant courses for EDNS 151 and HASS 100, therefore, we recommend deactivating EDNS 191 and 192 to avoid confusion for students and to align better with the course curriculum.
2 new courses:	EDNS445: PRODUCT REDESIGN
	After Advisory Board and ABET reviews of the Design Engineering program, our undergraduate committee sought to incorporate upper-level Design Engineering courses into the program to provide breadth and depth in the field of study for majors and non-majors wanting to explore design theory, methods and practice. Based upon research in the field, advisory board recommendations and student feedback, our undergraduate committee determined two areas of advanced studies in design practice. This proposed class will feature applications of new software, innovative exploration in building and impactful team-based projects. The proposed class will be a required upper-level design elective under program updates targeting the Fall 2025 catalog.
	EDNS450: INCLUSIVE DESIGN FOR THE BUILT ENVIRONMENT
	After Advisory Board and ABET reviews of the Design Engineering program, our undergraduate committee sought to incorporate upper-level Design Engineering courses into the program to provide breadth and depth in the field of study for majors and non-majors wanting to explore design theory, methods and practice. Based upon research in the field, advisory board recommendations and student feedback, our undergraduate committee determined two areas of advanced studies in design practice. This proposed class will feature applications of new software, innovative exploration in building and impactful team-based projects. The proposed class will be a required upper-level design elective under program updates targeting the Fall 2025 catalog.
6 course changes:	EDNS200: INTRODUCTION TO DESIGN ENGINEERING
	After Advisory Board and ABET reviews of the Design Engineering program, our undergraduate committee sought to update course catalog

	listings to streamline course sequencing, removing HASS200 as co-requisite.
	EDNS210: PHYSICAL PROTOTYPING
	After Advisory Board and ABET reviews of the Design Engineering program, our undergraduate committee sought to update course catalog listings to streamline course sequencing, add HASS100 & EDNS151 or HRNS115 or HNRS1200 as a prerequisite; adding EDNS200 and PHGN200 as a co-requisite.
	EDNS220: PROBLEM FRAMING & STAKEHOLDER ENGAGEMENT
	After Advisory Board and ABET reviews of the Design Engineering program, our undergraduate committee sought to update course catalog listings to streamline course sequencing, removing EDNS291 and adding EDNS210 as a pre-requisite.
	EDNS310: SYSTEMS MODELING & DESIGN
	After Advisory Board and ABET reviews of the Design Engineering program, our undergraduate committee sought to update course catalog listings to streamline course sequencing, removing EDNS292 and adding EDNS200 as a pre-requisite; adding MATH225 as a co-requisite.
	EDNS320: ENGINEERING JUDGMENT
	After Advisory Board and ABET reviews of the Design Engineering program, our undergraduate committee sought to update course catalog listings to streamline course sequencing, removing EDNS391 and adding EDNS310 as a prerequisite.

These changes are in response to the ABET review and feedback from the EDS External Advisory Board and students. The changes include reducing the total credit hours (126 credit hours) by one to align better with other disciplines and programs across campus as well as narrowing the scope of the focus area tracks within the program to establish a stronger identity for the Design Engineering bachelor's degree. To accomplish this, the EDS changes include the following: two courses (EDNS191 and EDNS192) will be deactivated in order to adopt core courses (EDNS151 and HASS200). EDNS491 and 492 will also be deactivated with the pending capstone prefix proposal. Require Statistics as a Math elective. Altered the Engineering electives and focus area credit hours (9 credit hours of Engineering electives, 9 credit hours of Design Engineering electives, and 12 credit hours of Thematic credit hours). Adopted HASS215. Reduced free elective requirement to match the core recommendation. These changes will provide curricular flexibility for upper-level electives as well as more advanced design theory and practice and consistency in degree identity and transcription process. EDNS445 and EDNS450 have been submitted for permanent course numbers (successfully piloted in the past). Additionally, there are a few course name and pre-req updates (EDNS200 and EDNS210).

- **Question:** G. Greivel asked, what is the current headcount and anticipated growth?
- **Answer:** C. Salinas answered there are currently 109 enrolled students. 250 is the target.

- **Question:** P. Myskiw asked, are there other departments using the courses that EDS is changing the name?
- **Answer:** C. Salinas answered that if there is, they would be used as a free elective.

3.6

GE		Mathias Burisch Hassel
CIM 12/19		
1 program change:	BS-GLE: BS IN GEOLOGICAL ENGINEERING	
	Modifications to the tracks within our degree will better match the industries where our students are employed, the graduate programs they enter, and the long-term trends in geoscience and geological engineering education. Moreover, the modifications include removal of GEGN 204 in order to address the university-level directive to reduce overall course hours in our curriculum. Based on an analysis of our program learning objectives, coupled with a review of the syllabi for each of our sophomore-level courses, we have decided that the critical course content in GEGN 204 can be adequately addressed in other classes, and we can remove that course from our curriculum.	

This program change includes adding in a new track, Environmental Geosciences, to reflect more of a career perspective for students. The new track will be similar to the existing engineering track but with some minor changes and a more environmental and low temperature aqueous geochemical focus.

3.7

CEE		Hongyan Liu
CIM 12/19		
1 course deactivation:	CEEN491: EROSION CONTROL AND LAND RESTORATION	
	The professor teaching this course cannot offer this course in person and online modality offering was denied by the dean.	

3.8

CBE		Jason Ganley
CIM 12/19		
1 program change:	BS-CHE: BS IN CHEMICAL ENGINEERING	
	CBEN424 isn't listed as an approved elective for the CBE Process Track (which it should be). Also, moving Combined BS/MS language to end of program desc.	

3.9

ME		Jeff Wheeler Kristoph Kinzli
CIM 1/3		
2 new courses:	CAPD491: CAPSTONE DESIGN I	
	A non-departmental capstone prefix reflects the multidisciplinary nature of this capstone program and the participation of all engineering departments in the course.	
	CAPD492: CAPSTONE DESIGN II	
	A non-departmental capstone prefix reflects the multidisciplinary nature of this capstone program and the participation of all engineering departments in the course.	

These courses would replace EDNS491 and EDNS492, Capstone Design. The reasoning is to distinguish this multidisciplinary course from other Capstone courses on campus that uniquely reside in their programs. This capstone resides in four different departments (CEE, EE, ME, and EDS) and currently, the prefix does not account for that. All responsibilities will reside with the Capstone leadership team and Director.

- **Question:** P. Myskiw asked, the course is Design which is EDS. Why doesn't the EDNS prefix fit?
- **Answer:** K. Kinzli answered the EDNS prefix does not fit since it spans across four different departments. Also, Capstone has its own team under A. Herring making it a separate program. It would make sense to have its own prefix.
- **Question:** V. Dave asked, what would be the advantage of changing the prefix? How will it benefit students or faculty?
- **Answer:** K. Kinzli answered the biggest benefit will be that students immediately see that it is not associated with one department but instead goes across different programs. Instead of funneling to EDS, everything would funnel to the Capstone leadership team.

- **Question:** P. Myskiw asked, would cross-listing accomplish the same thing? Generally, subject codes relate to the subject content area that is being taught, not a specific designation like Capstone.
- **Answer:** V. Karaivanov answered that these courses were originally EGGN. Once the EGGN prefix was removed, it was moved to EDNS. J. Wheeler added that these courses are interdisciplinary courses instead of ME, EE, or EDS-specific. K. Kinzli added that adding the prefix would reflect the interdisciplinary nature of the courses.

- **Question:** P. Myskiw asked, who will own CAPD since a single department needs to be attached to a subject code?
- **Answer:** K. Kinzli answered that the logical choice would be Mechanical since it is the biggest department in Senior Design or it could sit with the home department of the Director (in this case, it is Mechanical under the direction of K. Csavina).
- **Comment:** V. Dave added that the prefix change will impact data collection and Institutional Research (IR). This will need further discussion.

5:00 pm **Adjourn at 4:58 pm** Ventzi Karaivanov

Next meeting: January 22nd, 4:00-5:00 pm via Zoom. Please send agenda items to Ventzi Karaivanov (vkaraiva@mines.edu) and Kristeen Serracino (kristeen.serracino@mines.edu) one week prior.