

Colorado School of Mines – FACULTY SENATE MEETING MINUTES
November 22, 2:00 – 4:00 pm, in the Guggenheim Boardroom and Zoom

Attendees:

Voting Members: 15 total (8 needed for quorum). Quorum was present.

A	Jeff King (Chair)*	A	Cristian Ciobanu (ME)	P	Linda Figueroa (CEE/MN)	P	Joseph Horan (HASS)
P	Ebru Bozdog (GP)	P	*Brandon Dugan (GP) proxy for Jeff King (Chair)	P	Mansur Ermila (PE)	P	Cynthia Norrgran (CBE)
P	Bettina Voelker (CH)	A	Lawrence Wiencke (PH)	P	Pat Kohl (PH)	P	Ventzi Karaivanov (ME)
P	Sid Saleh (EB)	P	Deb Carney (AMS)	P	Soutir Bandyopadhyay (AMS)		

Other Regular Attendees and Guests

A	Tracy Gardner (Trustee)	P	Rick Holz (AA)	P	Paul Myskiw (RO)	P	Colin Terry (Student Life)
P	Sam Spiegel (Mines Online)	P	Emmelia Ashton (USG)	A	Liam Witteman (GSG)	P	Mara Green (AA)
P	Vibhuti Dave (UGS)	P	Tim Barbari (OGS)	P	Lori Kester (EM)	P	Nicole Bewar (LB)
P	Karla Perez-Velez (CASA)	P	Deb Jordan (Trefny)	A	Angela Dunn (Mines Online)	P	Andrew Herring (AA)

Special Guest(s):

Welcome

Brandon Dugan

King out, Dugan served as substitute for 11/22.

CS to provide an update on the new computing course. Representatives to present progress on CASES at an upcoming Senate meeting.

Approval of Minutes – November 8, 2022

Brandon Dugan

MOTION: To approve the Faculty Senate minutes from November 8, 2022 by Voelker, seconded by Horan. Motion passed unanimously.

December 2022 Graduation List for Faculty Senate Approval

598 students will walk in the December 2022 ceremony and 500 will be graduating; 236 undergraduate student and 264 graduate students for the Fall graduation ceremony.

MOTION: To approve the December 2022 graduation list by Horan, seconded by Voelker. Motion passed unanimously.

Academic Affairs Announcements

Rick Holz

Holz wished faculty a restful break and thanked faculty; Holz encouraged faculty to not have major exams or projects after break.

Faculty were appreciative of PCJ’s message in response to the Colorado Springs shooting.

Registrar’s Office Announcements

Paul Myskiw

ITS investigating Banner network issues. Myskiw noted this may result in changing the date of priority registration to a few days longer to decrease the number of students in Trailhead registering at the same time. Registration went well, no larger issues were observed.

Myskiw requested Faculty Senate Bylaw language regarding program modification and assessing what modification means; Senate should be aware of programs changing modalities.

Comment from CH faculty of students registering for classes during class periods and frustrated faculty involved. Myskiw reported registration opens at 8am with students broken into groups at fifteen-minute increments until 4pm. Suggestion made to move registration time slots into the evening; Myskiw noted this would affect the questions directed to CASA and the Registrar's Office, several hundred students approached CASA and RO with questions.

Registration tools were crashing; instructions will be added for next semester. The older version of the registration software will be retired and completely offline in December. Myskiw reminded faculty that CRN search will not be available with the new system, but a class roster search is available.

Briefings, Informational Items, and Updates

Instructional Effectiveness Implementation Committee

Deb Carney

Draft Implementation Plan for Peer Observation

Peer observation would focus on improving teaching through formative feedback rather than summative evaluation. Peer observations would be conducted in pairs and facilitated by four peer observation fellows that conduct training, pairing, and support for the program.

Information from the observations would be sent to the FDR and P&T dossier. Actual feedback would not be shared, but faculty can provide additional data and reflection. Rubric and guidelines would also be provided. Cross department observation would be allowed.

Committee sought a sustainable commitment for faculty of six hours every three years. The committee suggested the following timeline: Spring 2023 proposal shared with campus and feedback collected, end of Spring 2023 Senate vote requested on final proposal, Fall 2023 the pilot program begins with materials developed depending on resources, and Spring 2024 full rollout begins with appropriate resources. Four peer observation fellows (POF) would fall under two-year staggered terms, requiring resources for support. POF expected to serve fifty hours per semester and would be Mines faculty.

POF would introduce the observations process to departments, facilitate debriefs after observations, and manage pairings with input from DHs.

- **Question** on staggering observations for three years; Carney reported departments would be grouped with a way to provide makeup or additional observations, and off-cycle observations.

Comment made on importance of assuring new faculty have an opportunity to observe.

- **Question** on what is included within the FDR; the minimum shared by the faculty on the FDR is the reflection from the observed faculty member and a check mark noting completion of the process. The faculty member can choose to share additional data.

Suggestion made to provide observations by rank, staggered departments may have different FDRs if the observation had not yet been completed. Committee noted department groupings were neater than ranking and worried about tracking the progress across campus. Note made that power dynamics may be an issue with rank.

Faculty can suggest a new pairing if they feel an inaccurate representation was made.

Observers are notified in advance with department training, pairings meeting and setting guidelines, and debriefing once observation has been completed.

Core Curriculum Committee

Vibhuti Dave

New computing class in CS in development. Committee will meet again before the semester's end to review course content and CLO. Overview of CASES at Senate and Undergraduate Council. New wellness course CLO prepared and slotted for Spring 2024. Curriculum and course structure are being discussed.

PH working on revising courses with the expected credit decrease from 4.5 to 4; department does not expect reduction in content coverage.

HASS100 principal faculty involved have met. Proposal for changes would be presented in Undergraduate Council with clarity on the transfer credit, short form, and its implications. Final decisions hinge on the curriculum with the signature CASES class affecting content within HASS100.

Committee taskforce consists of members of the Registrar's Office, CASA, and faculty. A guideline for departments and what to expect drafted with expectations for course substitutions.

Graduate Tuition Overview

Tim Barbari

No decisions have been made on the graduate tuition model, Barbari provided background on why graduate tuition structure is being reviewed. Financial Aid tasked with looking at a per-credit model; Barbari reported per-credit model becoming more common at the graduate level and is present for online courses. Residential tuition has remained flat. Barbari presented predicted student behaviors if a per-credit model is chosen.

Currently, graduate tuition holds a plateau model (students pay the same tuition between nine and fifteen credits per semester) and is potentially advantageous due to its common pricing structure and student ability to pack more credits. The plateau model potential disadvantage is resident and non-resident pricing differences, students with lower credit loads pay more for the same degree, and the model can be seen as more challenging for mixed online and residential students taking courses.

Per credit pricing may eliminate existing inequities between part time and full-time students, create a more competitive full-time equivalent rate, remove "free" courses, better facilitate pricing across modalities, and provide simplicity and transparency between the institution and student.

Mines highest in the country for non-resident tuition and highest in Colorado for resident tuition.

Barbari noted there would be ripple effects with a new graduate tuition model for grants and tuition recovery. Barbari discussed considerations for risk mitigation and options for tuition recovery.

SLATE feedback provided from students declining Mines. Students most commonly decline due to program fit, offering of financial aid, and cost. Thesis students most commonly cite program fit, non-thesis students commonly cite cost.

Comment on students subsidized or paid for by an employer and its effects on the model alongside fellowships. The next level of analysis would be self-payer and students with external fellowships. Some students qualify for reduced registration but do not participate due to company or employer paying the tuition as is. Employer paid tuition typically reflects as self-payer.

Ideas being discussed and shared with DH council and faculty. Final decisions have not been made.

Confirmations and Appointments

Cristian Ciobanu

Faculty Senate Committee Appointments

Survey

Three volunteers presented to Senate to fill the Survey committee:

- Tessa Sorensen (Professor of Practice - Petroleum Engineering),
- Xiaoli Zhang (Assoc Professor - Mechanical Engineering), and
- Christian Beren (Teaching Assistant Professor - Chemistry).

MOTION: To nominate T. Sorensen, X. Zhang, and C. Beren for the 2022-2023 Faculty Senate Survey committee by Horan, seconded by Figueroa. Motion passed unanimously.

Library

Committee meets between one and two times per semester. One volunteer presented to Senate to fill the Library committee. Note made there may be additional vacancies.

- Tessa Sorensen (Professor of Practice - Petroleum Engineering).

MOTION: To nominate T. Sorensen for the 2022-2023 Faculty Senate Library committee by Horan, seconded by Ermila. Motion passed unanimously.

FOCSA

One volunteer presented to Senate for the Faculty Oversight committee on Sports and Athletics.

- Cristian Ciobanu (Professor - Mechanical Engineering)

MOTION: To nominate C. Ciobanu for the 2022-2023 Faculty Senate Faculty Oversight Committee on Sports and Athletics by Carney, seconded by Horan. Motion passed unanimously.

Undergraduate Council

Brandon Dugan

Undergraduate Curriculum Item(s) for Presentation – Appendix A

Program change to BS in Chemistry

Course number placeholders replaced with proper course numbers, CHGN409 was added to the elective list, and Spring and Fall flowchart for Senior year in the BS in Biochemistry degree were updated to reflect the listing on the department website.

Undergraduate Curriculum Item(s) for Senate Vote – Appendix A

Program change to BS in Metallurgical and Materials Engineering
Presented 11/8. No further discussion.

MOTION: To approve the program change in Metallurgical and Materials Engineering to BS-MME: BS in Metallurgical and Materials Engineering by Horan, seconded by Carney. Motion passed unanimously.

Program change to BS in Applied Mathematics and Statistics
Presented 11/8. No further discussion.

MOTION: To approve the program change in Applied Mathematics and Statistics to BS-AMS: BS in Applied Mathematics and Statistics by Horan, seconded by Figueroa. Motion passed unanimously.

Program change to BS in Chemical Engineering
Presented 11/8. No further discussion.

MOTION: To approve the program change to Chemical and Biological Engineering to BS-CHE: BS in Chemical Engineering by Horan, seconded by Carney. Motion passed unanimously.

Graduate Council

Tina Voelker

Graduate Stipends Increase Proposal

Proposal presents an aggressive increase of \$3,000 a year in minimum stipends. Council raised concerns regarding grants and budgeting increases. Voelker reported stipends have not kept up with the cost of living given the institutional estimate of cost of attendance. COA superseded current stipends. Additionally, stipend increase addresses remaining competitive with other institutions. Voelker presented CPI of Denver versus the minimum stipends and its yearly increases.

Barbari reported the number of PhD students receiving federal graduate loans has increased from thirty-seven to seventy-seven.

Department of Energy Office of Science document had a paragraph devoted to living wage and recommended institutions use \$45,000 as graduate student stipend.

Comment made that NSF/GRP behind, institutions typically top off the stipend.

Proposal endorsed by Graduate Council 11/16 and encouraged administration to build in relief to existing grants dealing with stipend increases. Information passed on to Senate and Research Council.

Research Council

Sid Saleh

Tabled for 12/12.

Adjourn

Brandon Dugan

Meeting adjourned: 3:53 pm.

Next meeting: December 13, 2:00-4:00 pm in the Guggenheim Boardroom and Zoom. Please send all agenda items to Mara Green (mgreen1@mines.edu) 1 week prior.

Appendix A
For Senate Presentation

- 1.1 **CHEMISTRY**
[CIM 9/28]
1 program change: BS-CHM: BS in Chemistry
These changes include: fixing course numbers (replacing instances of CHGN4XX with proper course numbers), adding CHGN409 to CHGN elective list, adjusting some courses in fall and senior year of B.S. in Biochem degree to reflect degree flowchart on department website.

For Senate Vote presented 11/8/22

- 2.1 **METALLURGICAL AND MATERIALS ENGINEERING**
[CIM 9/19; UGC 10/26]
1 program change: BS-MME: BS in Metallurgical and Materials Engineering
Replace the MME BS degree course requirements: MTGN314/MTGN314L Properties & Processing of Ceramics with MTGN310/MTGN310L Power Processing & Forming. There is no change in the number of credit hours. Both the MME BS and CerEng BS will share MTGN310/310L as a required course.
- 2.2 **APPLIED MATHEMATICS & STATISTICS**
[CIM 9/20; UGC 10/26]
1 program change: BS-AMS: BS in Applied Mathematics and Statistics
Require CSCI101, CS200, and an additional CS elective. Remove CSCI403 (databases) as a required course for the statistics degree. Instead require MATH436 (advanced stats) and will move CSCI403 to the stat elective list.
- 2.3 **CHEMICAL AND BIOLOGICAL ENGINEERING**
[CIM 9/13; UGC 10/26]
1 program change: BS-CHE: BS in Chemical Engineering
Updates made to the electives list.