

Colorado School of Mines – GRADUATE COUNCIL MEETING AGENDA  
 April 17, 2024, 4:00 – 5:00 pm, via Zoom

**Attendees:**

**Voting Members:** 23 total (15 - majority needed for quorum). Quorum was present.

P	Soutir Bandyopadhyay (Chair)	P	Danielle Ostendorf (LB)	P	Andy Osborne (NSE)	P	Owen Hildreth (ME)
P	Adrienne Marshall (HSE)	P	Bettina Voelker (CH)		Jaeheon Lee (MN)		Jared Carbone (EB)
	Eileen Martin for Yaoguo Li (GP)	P	Beth Reddy for Juan Lucena (EDS)	P	Jim Ranville (GC)	P	Pejman Tahmasebi (PE)
p	Suveen Mathaudhu (MME)	P	Nikki Farnsworth (CBE)	P	Ryan Venturelli (GE)	P	Dong Chen (CS)
	Adrienne C. Kroepsch (HASS)	P	Yamuna Phal (EE)	P	Rena Zhu (GSG)		Samy Wu Fung (AMS)
			Lori Tunstall (CEE)	P	Gabriel Walton (UCTE)	P	Uwe Greife (PH)

**Other Regular Attendees and Guests**

P	Tim Barbari (OGS)		Carolyn Freedman (OGS)	P	Jenny Briggs (OGS)		Vibhuti Dave (UG)
	Wendy Adams (HNRS)	P	D. Scott Heath (RO)	P	Paul Myskiw (RO)		Roxane Aungst (OGS)
P	Sam Spiegel (Mines Online)		Suzanne Beach (Payne)		Jen Gagne (Grad Admissions)		Valerie Holt (AES)
	Jon Johnson (Mines Online)		Atef Elsherbeni (EE)		Richard Krahenbuhl (GP)	P	Kristeen Serracino (AA)
P	Colin Schneider (RO)	P	Cadi Gillette (IGP)				

**Special Guest(s):** Rich Krahenbuhl, Sid Saleh

**Welcome**

Soutir Bandyopadhyay

*Determine date of next meeting (5/1 or 5/8)*

The next GC meeting is scheduled for 5/1 but it interferes with the Faculty Budget forum. S. Bandyopadhyay proposed that the next meeting be postponed to 5/8.

**MOTION:** The motion to postpone the next GC meeting to 5/8 was moved by O. Hildreth, seconded by T. Voelker. The motion to postpone the next GC meeting to 5/8 was approved with 10 approved, 1 opposed, and 2 abstentions.

**Briefings and Information Items**

*Office of Graduate Studies*

Tim Barbari

An email was sent out from Kirsten Volpi to the graduate tuition working group that the Exec team wants to do more analysis on the structure and pause any implementation for 2024-2025. It will be another year before any changes are made. From the input received from the Graduate Council,

Faculty Senate, and graduate student input, there are issues that need to be addressed/discussed. T. Barbari encouraged everyone to continue to send messages and emails with any issues or input to share with the working group.

- Question: U. Greife asked what was the biggest concern received regarding the new tuition model? What was the concern from the Exec team?
- Answer: T. Barbari answered that there is concern on the non-thesis master's side with non-resident tuition. The Exec team is concerned that this would not help attract more non-resident, revenue-generating master's students so they would like to revisit that aspect of the tuition model. There is also consideration of an in-between model to do reduced registration that is simpler than just counting credits and instead a set amount of time (semester, quarters, revenue amount, etc.). The Exec team was concerned about the time frame to implement in a way that everyone feels comfortable in the time that we have left to do it. Also, with the Banner SaaS issue, that also affects the transition since billing for tuition occurs in Banner.
- Question: T. Voelker added that she would push for a conclusive decision to be made in the fall because this year, people are enrolling and expecting a certain tuition structure which would have gone in the summer. Will we find ourselves in the same situation a year from now?
- Answer: T. Barbari added that the goal of the working group is to have things set in stone by December, or even earlier since the group can now focus on faculty and student input, do some final touches and get Exec team more confident about implementation.
- Comment: J. Briggs suggested if listening sessions could happen in early fall because this year, as soon as word spread about the proposed new model, many different subgroups of students, faculty, and staff had questions and concerns. It would be good to have something in place to capture these.

*Registrar's Office*

Paul Myskiw

P. Myskiw reminded the council that the catalog is coming to a close for publication. There was language clean-up in the undergraduate council around the combined programs so that it matches the new graduate policy. An email will be sent out to any undergraduate student in a combined program or registered in the fall for a 500-level course with a reminder about the new policy and that they need to make decisions about which degree it is counting toward, or if it will be double counted. The hope is that after a semester, things will be cleaner. There is a working procedure document that students and advisors have seen that has cleared up a lot of confusion on what can be double counted and when.

*Graduate Student Government*

Rena Zhu

GSG provided a document that captures past discussions on the graduate student leave policy which includes vacation leave and sick leave. It also includes some resources and links that faculty could use when they are figuring out leave with their student(s). Currently, the general recommendation is for people to track leave. J. Briggs added that after checking with the MAPS

office, graduate RAs and TAs are in the Workday system and have a sick leave accumulation. The office provided a cheat sheet that could be circulated to submit a leave request through Workday. There is not a corresponding vacation leave balance for RA's and Ta's as they are not eligible for that type of leave in the summer as full-time employees are. If anyone has input/feedback, they are encouraged to reach out to J. Briggs especially about formalizing a tracking and approval system for leave and/or formalizing a 10-day vacation leave.

Additionally, GSG is wrapping up some events for the remainder of the semester. The Faculty and Staff Appreciation Breakfast will be held on April 23<sup>rd</sup> in Berthoud 206 from 8:30 am to 11:00 am. Lastly, in response to the graduate tuition model, there was some misconception about what GSG has power over. R. Zhu reiterated that GSG has no power over it. They welcome feedback and would love to represent the graduate student perspective, but do not have a say on decisions made.

- Question: S. Bandyopadhyay asked if there are other universities who are implementing this?
- Answer: J. Briggs answered that they have looked at neighboring universities such as CU and CSU. There is a state policy that they follow which states 30-40 hours of sick leave per RA or TA per year. Other institutions have similar sick leave policies. However, many institutions have no formal vacation policy but instead specify a recommended amount of additional leave for their graduate students.

*De-listing semester offered in the catalog*

Soutir Bandyopadhyay

There was a request to no longer list the semester offered in the catalog as there is no enforcement or guidance around it. To clean up the catalog and remove unnecessary information, this seems like a good place to start. This item has been voted on and approved by the Undergraduate Council.

- Comment: J. Ranville added that in its current format, the listing seems to be incorrect and not up-to-date and therefore not helpful to students.

## **New Business**

**1.1 ELECTRICAL ENGINEERING**  
[CIM 3/29]

Yamuna Phal

**1 new course:**

EENG585: AI FOR POWER AND  
RENEWABLE ENERGY SYSTEMS

*This course "AI for Power and Renewable Energy Systems" has been selected for an on-line certificate program in the power and energy system area to be offered this coming Fall. It was first offered in person in the Fall semester of 2023. It received very good feedback and course evaluations (attached). AI is regarded as a transformative technology for power and renewable energy systems, and there is high demand for such a course in the industry. Thus, assigning a permanent number to this course (a requirement for having this course in the on-line certificate program) will help promote and increase enrollment of our on-line program.*

**1.2 CEE**  
[CIM 4/12]

Lori Tunstall

**1 course deactivation:**

CEEN574: SOLID WASTE  
MINIMIZATION AND RECYCLING

1.3

**CSM GENERAL**

Sid Saleh

[CIM 4/5]

**1 new program:**

**CERTIFICATE OF INNOVATION  
ENGINEERING**

*This innovation program will include credit-bearing courses leading to a graduate certificate. This program helps Mines become more accessible and attractive to non-traditional working professionals from all industries, with a signature Mines student experience in the entrepreneurial realm. The special topics course has already strengthened affinity for Mines among our students, alumni, and external partners.*

1.3

**EDS**

Richard Krahenbuhl

Elizabeth Reddy

[CIM 4/12]

**1 new program:**

**COMMUNITY SOCIOTECHNICAL CLIMATE  
RESILIENCE**

*This program specifically addresses several Mines@150 goals by fostering education related to science and engineering solutions in a societal context, and by (i) expanding offerings and diversifying delivery, in particular for professionally oriented pre and post graduate education, (ii) providing accessible and attractive degrees to qualified students from all backgrounds, (iii) positioning Mines as a preferred industry partner (public and private) for talent, solutions and life-long learning.*

*This certificate will be offered fully online and will be available to a new targeted professional/nonresidential audience.*

**2 new courses:**

**EDNS501: COMMUNITY-CENTERED  
APPROACHES TO RESILIENCE**

*This course is one of three online courses that are proposed to comprise a new Online Certificate for the Humanitarian Engineering and Science (HES) IGP Program. This course, as well as the proposed new Online Certificate, align with the vision of Mines@150 by expanding offerings and diversifying delivery, in particular for professionally oriented pre and post graduate education. This is one of the strategic foci of Mines@150.*

*Course delivery: This course will be offered fully online. The instructor for this course completed the FoCD course through Mines Online on March 19, 2024.*

**EDNS502: MANAGING AND LEADING  
IN MULTISTAKEHOLDER  
ENVIRONMENTS**

*This course is one of three online courses that are proposed to comprise a new Online Certificate for the Humanitarian Engineering and Science (HES) IGP Program. This course, as well as the proposed new Online Certificate, align with the vision of Mines@150 by expanding offerings and diversifying delivery, in particular for professionally oriented pre and post graduate education. This is one of the strategic foci of Mines@150.*

Course delivery: This course will be offered fully online. The instructor for this course completed the FoCD course through Mines Online on March 19, 2024.

- Question: O. Hildreth asked if this will take additional faculty resources? If so, where are those resources being funded from? What is the proposed time to introduce the programs?
- Answer: R. Krahenbuhl answered the first course is already offered. The two other courses will be developed by someone hired within the HES program. The faculty member is a social scientist and has only been teaching and developing online courses. Once it is in place, HES has been working with Mines Online on the process of how to hire adjuncts and they would provide funding for that for the first couple of years. HES is shooting for Spring 2025 to launch the program as more time is needed to get the programs through the approval process.

### Adjourn

Next meeting: May 8, 2024, 4:00-5:00 via Zoom. Please send all agenda items to Soutir Bandyopadhyay ([sbandyopadhyay@mines.edu](mailto:sbandyopadhyay@mines.edu)) and Kristeen Serracino ([kristeen.serracino@mines.edu](mailto:kristeen.serracino@mines.edu)) 1 week in advance

**Consent Agenda** The following proposals will not be discussed unless specifically requested by the Council. Please review the following items. With no objections, approval is implied, and items will be processed accordingly.

**2.1 NUCLEAR ENGINEERING** Andy Osborne  
[CIM 3/11]  
**1 program change:** MEMSPHD-NUAS/NUEG: ME, MS & PHD IN NUCLEAR ENGINEERING  
*Reduced credits for thesis MS from 36 to 30 credits by reducing the number of research credits from 12 to 6 in anticipation of the per-credit tuition pricing.*

**2.2 ELECTRICAL ENGINEERING** Yamuna Phal  
[CIM 4/4]  
**1 new course:** EENG514: DATA SCIENCE FOR ELECTRICAL ENGINEERING  
*Mines requires that graduate students only take 500-level classes. EENG 415 (Data Science for Electrical Engineering) has traditionally been taken by both graduate and undergraduate students. With the new rule, there is a need for a 500-level class.*

**2.3 PHYSICS** Uwe Greife  
[CIM 4/8]  
**1 program change:** MS-QUE: MS IN QUANTUM ENGINEERING  
*Removing 400-level courses to align with university policy.*

**2.4 ORWE** Cadi Gillette  
[CIM 4/8]  
**1 program change:** MSPHD-EBOR: MS & PHD IN

OPERATIONS RESEARCH WITH  
ENGINEERING

*Removing 400-level courses to align with university policy.*

**2.5**            **ROBOTICS**  
[CIM 4/4]  
**1 program change:**

Andrew Petruska

MSPHDCRTG-ROB: MS, PH, AND  
GRAD CERT IN ROBOTICS

*Removing 400-level courses to align with university policy.*

**3 new courses:**

ROBO517: INTRODUCTION TO  
COMPUTER VISION

*Cross listing with CSCI507.*

ROBO535: ADVANCED MACHINE  
LEARNING

*Cross listing with CSCI575.*

ROBO576: HUMAN-ROBOT  
INTERACTION

*Cross listing with CSCI536.*

**2.6**            **CHEMISTRY**  
[CIM 4/10]  
**1 program change:**

Tina Voelker

MSPHD-ACH: MS & PHD IN  
CHEMISTRY AND APPLIED  
CHEMISTRY

*Updated language in MS degree (Chemistry, thesis option) from minimum 36 credits to 30 credits required.*