

Colorado School of Mines – FACULTY SENATE MEETING MINUTES
January 24, 2:00 – 4:00 pm, in Stratton Hall 104 and Zoom

Attendees:

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

P	Jeff King (Chair)	P	Cristian Ciobanu (ME)	P	Linda Figueroa (CEE/MN)	P	Joseph Horan (HASS)
A	Ebru Bozdog (GP)	A	Brandon Dugan (GP)* Sabbatical Spring 2023	P	Mansur Ermila (PE)	A	Cynthia Norrgran (CBE)
P	Bettina Voelker (CH)	P	Lawrence Wiencke (PH)	A	Pat Kohl (PH)	P	Ventzi Karaivanov (ME)
A	Sid Saleh (EB)	A	Deb Carney (AMS)	A	Soutir Bandyopadhyay (AMS)		

Other Regular Attendees and Guests

P	Andrew Herring (AA)	P	Rick Holz (AA)	P	*Kendra Stansbury (RO) proxy for Paul Myskiw (RO)	A	Colin Terry (Student Life)
P	Sam Spiegel (Mines Online)	P	Emmelia Ashton (USG)	P	Liam Witteman (GSG)	P	Mara Green (AA)
P	Vibhuti Dave (UGS)	A	Tim Barbari (OGS)	P	Lori Kester (EM)	P	Nicole Bewar (LB)
P	Karla Perez-Velez (CASA)	P	Deb Jordan (Trefny)	A	Jen Gagne (Graduate Admissions)		

Special Guest(s): Todd Ruskell (PH), Robert Thompson (CS)

Welcome

Jeff King

King notified faculty Senate events have begun again including Faculty Fuel-Ups every Monday from 8-9am and Midweek Meet and Eats every Wednesday from 12-1pm ([for more information on Senate events, click here](#)). King invited faculty to continue participating in events, guests will be invited to provide information during Senate events.

Roel Snieder's Teaching with Heart began meeting 1/24. Faculty encouraged to attend.

Ebru Bozdog has stepped down as Senator due to change in locus from GP to AMS, the Executive Committee would nominate a replacement following a call for volunteers.

Approval of Minutes – January 10, 2023

Jeff King

MOTION: To approve the Faculty Senate minutes of January 10, 2023 by Horan, seconded by Figueroa. Motion passed unanimously.

Academic Affairs Announcements

Rick Holz

Holz reported all floors of Alderson Hall are now open; three floors had been damaged costing over a million dollars in damages.

Holz reminded faculty that Career Days will be held over two days on February 7 and February 8. Various jobs are available and there was a large demand for students to attend. Holz asked faculty remind colleagues to allow students to participate and not provide major tests or major homework assignments on those Career Days. Holz recommended recording lectures or moving to remote if possible and providing lectures to students unable to attend.

- **Question** if the February 8 Career Day will be held virtually; Holz reported both days will be held in-person. Holz noted parking on these days may be difficult.

Holz reported the DI&A fellow search is in its final stages, an announcement expected on the final decision.

Two major construction projects on campus, Labriola Innovation Hub, and Beck Venture Center, are on schedule. The Labriola Innovation Hub expected to open in August, the Beck Venture Center expected to open in July. A search has been launched for directors. Saleh appointed as new director of the McNeil Center for Innovation and Entrepreneurship. Faculty are open to use all E&I opportunities on campus.

Registrar's Office Announcements

Paul Myskiw

No updates from the Registrar's Office.

Committee Reports

Bylaws and Rules

Jeff King

Ad Hoc Committee

Committee began work and has drafted language, committee to complete strategy on passing a complete Bylaws package. King met with Holz and Herring and found most large-scale items drafted are in alignment with AA. All items proposed would be brought to Senate prior to dissemination to the faculty for vote.

King asked for any additional volunteers.

Core Curriculum

Joe Horan

Ad Hoc Committee

Horan reported the committee had effectively completed its charge through completing stakeholder engagement and putting forward recommendations in the form of the finalized Senate resolution passed in October 2022.

Dave coordinated discussions on implementation through taskforce including the Registrar's Office, CASA, department heads, and faculty. The taskforce has worked on establishing guidelines, assessing how the core changes impact different students, and created visuals for course substitutions. Dave noted most areas are on track to submit program changes; the first phases included changes to the first four semesters, the second phase of guidelines asked for the entire four-year plan. The taskforce will look over submissions prior to CIM entry.

Dave working with EB, HASS, and EDS on the CASES/STFutures course and how it will be piloted in Fall 2023 and what should be in place for this course regarding submissions in CIM moving forward.

Faculty Contracts

Todd Ruskell

Ad Hoc Committee

Ruskell reported teaching faculty contracts are being looked over. Ruskell noted the ability of teaching faculty to appeal decisions to not hire back with or without cause had been removed in some instances, Ruskell has met with AA and legal on these changes. Committee to look over the Handbook, AA and Holz expressed willingness to consider looking over the Handbook and revising the statement provided there is a recommendation from the Faculty Contracts ad hoc committee.

Ruskell noted the new contract language had been used for a couple of years, beginning in 2020 with Fall 2019 new faculty effected. Old contract language had been in effect Fall 2019 and prior.

Comment raised on contracts in 2020 still having the right to appeal. Suggestion made that if a global change to the contract template is made, Senate should be able to review.

Ombuds Office

Jeff King

Ad Hoc Committee

King reported the first job of the ombuds would be to establish procedures, implying underlying policies that should be established including the creation of an ombuds committee. A draft position description has been created. Following AA review, Senate will review the description and the description will be shared with the public.

Open Announcements

No announcements.

Confirmations and Appointments

Cristian Ciobanu

Student Signature Experience Ad Hoc Committee

The SSE ad hoc committee required leadership; King requested a senator to chair the committee. King had been notified grant money still exists.

Figueroa volunteered to chair the SSE ad hoc committee.

MOTION: To appoint Linda Figueroa as chair of the Student Signature Experience Ad Hoc Committee by Ciobanu, seconded by Voelker. Motion passed unanimously.

Information Technology Advisory Ad Hoc Committee

King requested volunteers to chair the ad hoc committee, noted that a senator is not required and faculty at-large can be asked. The CIO had asked to establish a committee.

Faculty Trustee

Ciobanu reported the process was completed as of noon 1/24 with two-thirds of the faculty having voted. Dinesh Mehta received 58.2% in favor. The President's Office, AA, and faculty would be notified of the new trustee.

Senate and Committee Business

Jeff King

Faculty Survey Committee Change

Bozdag had stepped down as a senator but wished to continue work on the Survey Committee. The language within Appendix B of the Academic Faculty Bylaws outlined the chair of the Survey Committee must be a senator. King proposed new language to remove this requirement.

Previous language:

“The committee shall be chaired by a member of the Senate who shall be appointed for a renewable one-year term by the Senate.”

Proposed language:

“The chair of the committee shall be appointed for a renewable one-year term by the Senate.”

King noted Appendix B of the Bylaws does not required a two-thirds vote of the academic faculty and can be changed by Senate.

MOTION: To approve changing the Appendix B.8 to no longer require the committee chair be a member of Faculty Senate by Kohl, seconded by Ciobanu. Motion passed unanimously.

Undergraduate Council

Joe Horan

CORE Curriculum Item(s) for Senate Presentation – Appendix A

New Core Course CSCI128: Computer Science for STEM

Thompson presented on the new core course CSCI128. The course is an introductory level programming course designed for students with no prior experience. CSCI128 covers basic programming constructs, file input and outputs, functions and objects in Python 3, and computing. Seven learning objectives have been outlined for the course:

1. Analyze a simple empirical problem, break it down into smaller, more manageable components, and design algorithmic solutions to these subproblems
2. Implement an existing prompt, plan, or design into programmatically correct Python code that produces the expected text, file, or graph output
3. Communicate in the language of programming with a computer and other programmers through code reading, writing, and critique
4. Critically discuss and reflect on the role technology has in modern society, and the positive and negative impacts their software may have on future users
5. Model how basic numeric and non-numeric data is represented in a computer, and predict when and how these physical representations diverge from their conceptual equivalents
6. Navigate and utilize a computer file system through a GUI, the text console, and code
7. Demonstrate effective debugging practices in an IDE to find, characterize, and correct code errors

Thompson outlined the assessment methods expected for the course including interactive course readings, programming worksheets, programming studio problems, programming assessment problems, a final programming project, in-class quizzes, and in-class tests.

Suggestion provided to cover licensing and licensing types for students to understand the meanings of creative commons licensing or open software.

Comment raised on Python 3 variable typing; Thompson noted types may not be visible through the code it is important to cover the variable typing explicitly.

- **Question** on resources if the course is part of the core and if CS sees challenges or concerns with resourcing; Thompson provided estimate based on the last term and expects resources are met. The Registrar’s Office had been consulted on classroom space and meeting times. The course is expected to replace CSCI101/102; combining the resources from the two courses may come close to covering what is needed for adjuncts, professors teaching, and TAs. Thompson noted students will require a computing device in the classroom and if a computer lab is not available for a session, some form of technology support would be needed.

Graduate Council
Curriculum Item(s) for Senate Vote – Appendix B
Tabled for 2/14.

Tina Voelker

Research Council
No updates from Research Council.

Sid Saleh

Adjourn

Jeff King

Meeting adjourned: 3:24 pm.

Next meeting: February 14, 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
CORE Curriculum Item(s) for Senate Presentation

1.1

COMPUTER SCIENCE

[CIM 1/4; Provost 1/5]

1 new core course: CSCI128: COMPUTER SCIENCE FOR STEM

This course is considered part of the new Mines Core, and thus designated an essential class for all students studying at Mines. Increasingly each year, our society relies on computing technology to accomplish daily tasks. This is even more true for scientists and engineers in STEM fields. However, simply knowing how to use computers is not enough. Capable professionals must also know how to program computers to make the best use of them. This course will teach the basics of computer programming, targeting students with no prior experience. It will teach fundamentals that are necessary to program in any language, as well as data analysis techniques that will be applicable to all STEM students, regardless of their intended major. This is a residential course, meeting in-person 3 times each week.

Appendix B
Graduate Curriculum Item(s) for Senate Vote – from 1/10/23

4.1

ENERGY

[CIM 11/9; GC 1/18]

1 program change: MSPHD-AES: MS and PhD in Advanced Energy Systems
AES is cleaning up the catalog language, clarifying course/credit requirements and clarifying PhD requirements.

4.2

MINING

[CIM 11/14; GC 1/18]

1 program change: MP-MEM: MP – Mining Industry Management (MP-MIM)
This program has been proposed and approved as an online program, and it is heavily focused on management aspects of the mining industry. It has quickly gained reputation in the first round of offering, making it to the top 25 technical professional masters programs in the US. We have had several applicants that do not have an Engineering background who want to enter the program, and since the contents are not very technical, they could be successful. But with the name Engineering in the title, students without an Engineering degree would be granted one in this program, and the MN faculty did not see that to be appropriate. So, with the change in name, we also propose changing the entry requirements and making the program available to all Mining and other Engineers, as well as to those who have worked in other disciplines in the mining and minerals industry for at least five years.

Also, the original program was a block model with all 33 credit hours prescribed, and we are changing it to allow up to two elective courses (6 credits) to be taken. This will offer flexibility to the student to take some other online courses to become more specialized in certain areas or to opt out of topics in which they already have competency. This also allows students to tap into other online content that Mines has to offer and is attractive to them.