



Missouri University of Science and Technology

Faculty Senate Meeting

October 19, 2023

Meeting procedure



Faculty Senate

- Only Senators may debate motions
- Only Senators can vote
- If you are not a Senator, or a proxy, you cannot vote or debate
- Do not speak over someone, or out of order
 - Raise your hand (For those online please use "Raise Hand" on the Zoom app)
 - The President will call on you and then you will have the floor
 - Please wait for the microphone
- Unless you have been recognized (told you have the floor), you may not speak



Meeting Minutes



Faculty Senate

•Robert's Rules of Order say that meeting minutes are simply a summary of what happened at the meeting.

•They are not a play by play of everything that happened or what members said.

•We will be using Robert's Rules to guide our recording of minutes.

•If needed, Faculty Senators may request access to the audio recording of the meeting. Please email <u>facsenate@mst.edu</u> with justification.



Missouri University of Science and Technology







I. Call to Order and Roll Call

D. Westenberg for P. Runnion, Secretary October 19, 2023







II. Approval of Minutes

KC Dolan, President September 21, 2023







III. President's Report KC Dolan

IFC meeting October 2 on Zoom

- President's report from State of the State Address to Board of Trustees, September 22, 20
- > FY23-24 projects for S&T:
- > Mining and refining of critical minerals: \$16M
- > Manufacturing Innovation Center: \$15M
- S&T ranked 5th in Money Magazine Ranking for "Best Colleges for Engineering Majors"
- Also discussed student enrollment, FY24-25 higher ed funding, annual open enrollment for employee benefits, US News and World Report rankings

IFC meeting October 2 on Zoom

Mark Diedrich: Emergency and disaster preparedness

- Basic Emergency plans, mitigation and recovery, training opportunities
- > Library resources: Looking into library resources, funding issues
 - Open Access Task Force report, ongoing
- > Shared governance report: preparing a white paper, ongoing
- > IT issues, Ben Canlas, interim: Software procurement (ex: Adobe, Overleaf)
 - Hiring a new VP IT/ CIO
- Next meeting November 8 in Columbia

Campus Matters—Librarians status

- Librarians move to NTT faculty status
- > Three-step process:
 - They decide if they want to transition—they do
 - Faculty Senate votes
 - Chancellor approves
- > Other schools in system are this way, will help promotions, benefits
- > Goal: to vote in November, when Bella Gerlich will be attending

Campus Matters

- > FS officer duties
- > PDFs prepared and available at FS website
- https://facultysenate.mst.edu/fsmembership/
- > Please share with other senators, departments







IV. Campus Reports A. Staff Council J. Sansone – no report







IV. Campus Reports B. Student Council M. Baur

Student Council



Faculty Senate

Markus Baur- College of Engineering and Computing

Starting on Capital Project

Continuing Tutoring Survey

Space Management – Developing Survey



Missouri University of Science and Technology







IV. Campus Reports C. Grad Student Council H. Al-Abedi







V. Special Topic Kummer Institute Update S. Roberts





Missouri University of Science and Technology

Kummer Institute for Student Success, Research, and Economic Development

Stephen Roberts

Chief Operations Officer of the Kummer Institute

October 19, 2023

Kummer Institute Primary Objectives



Faculty Senate

Established by the donors, June and Fred Kummer

- Elevate Missouri S&T's standing as a world-class technological university
- Create broad knowledge of, and access to, exceptional STEM educational opportunities through extensive outreach and engagement of K-12 communities
- Drive economic development regionally, statewide, and beyond





Now, asset plus leveraged funds is around \$500M.

	Total	Long Term	Capital
Beginning Balance	\$ -	\$-	\$-
Gift Revenue	\$ 311,676,526	\$ 203,907,897	\$ 107,768,629
Market appreciation/depreciation	\$ 60,585,937	\$ 72,206,041	\$ (11,620,104)
Dividends, Interest, and Capital Gains	\$ 26,248,011	\$ 22,155,142	\$ 4,092,869
Withdrawals	\$ (50,162,431)	\$ (19,689,074)	\$ (30,473,357)
Advisory Fees	\$ (228,243)	\$ (172,708)	\$ (55,535)
Value on Sept 30, 2023	\$ 348,119,800	\$ 278,407,298	\$ 69,712,502



Missouri University of Science and Technology



Key Investments to Date in Research

Endowed Faculty: Professors, Dept Chairs, and Center Directors

- **David Bojanic**, Professor of Business and Information Technology
- **Lijun Jiang**, Professor of Electrical and Computer Engineering
- **Seung-Jong (Jay) Park**, Chair of Computer Science
- **Richard Billo**, Advanced Manufacturing Center Director
- **Don Wunsch**, Artificial Intelligence and Autonomous Systems Center Director
- **Shelley Minteer**, Resource Sustainability Center Director
- 10 additional endowed faculty over next 5 years



Key Investments to Date in Research, cont.



Faculty Senate

Graduate student support, faculty grants, and facilities

- 45 Innovation and Entrepreneurship Doctoral Fellowships
 - 12-month \$24,000 research assistantship, a \$6,000/yr fellowship, \$1,500/yr in professional development funds, and tuition and fee remittance for 4 years
- **\$1.0M in Research Ignition Grants** awarded to S&T faculty
- \$1.2M in matching funds to awarded federal grants, plus \$8.1M in matching funds for pending federal grants
- **Missouri Protoplex**: \$30M of \$105M total project cost
- Advancing STEM in Missouri (ERL renovation and expansion, Schrenk East renovation, and geothermal expansion): \$35M of \$101M total project cost





Student scholarships, programs, and facilities

1,000+ Kummer Vanguard Scholars

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- \$1K to \$3K per year plus professional development programs in entrepreneurship, research, build & design, leadership, and social impact for four years
- 1st-year retention and 1st-year GPA for Vanguard Scholars are 93% and 3.5, respectively, compared to 81% and 3.1 for students not in the Vanguard program. Positive differentials in these metrics for Pell, URM and first-generations students are even greater.
- \$270K in Teaching Ignition Grants awarded to S&T faculty
- **Kummer College of Innovation, Entrepreneurship and Economic Development** administrators, faculty, and staff
- **Innovation Lab**: \$18.9M of \$37.3M total project cost
- **Welcome Center**: \$12.9M of \$25.8M total project cost







STEM Education Center, student programs, teacher programs

- **STEM Education Center** staff, facilities, and equipment
 - Hosted over 1,600 K-12 students at Missouri S&T academic summer camps in 2022 and 2023.
 - Hosted **workshops and conferences** for 100 K-12 STEM teachers statewide.
 - Hosted several thousand K-12 students at on-campus events such as FIRST Robotics competition, Technology Student Association Conference, STEM Day, and May The 4th Be With You.



How can you get involved?



Faculty Senate

Engage in activities, programs, and opportunities

- **Help recruit** KI endowed faculty, doctoral fellows, and Vanguard Scholars
- Offer your expertise in programs for Vanguard Scholars and K-12 students and teachers
- **Write an Ignition Grant** for research innovation or teaching transformation
- **Write a grant proposal** and ask for matching funds
- **Develop a new degree program** and ask for supporting funds
- Help plan new facilities
- **Inspire others** to support student success, research, and economic development





SIGN UP LOGIN



Faculty Senate

Kummer Campaign | Doubling Up for Student Support



https://go.mst.edu/kummermatch/



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Thank you!

Questions?



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VI. Reports of Standing Committees

A. Campus Curriculum P. DeWitt



CCC Meeting - 26 September 2023

Faculty Senate

Total Committee Activity

- 4 Course Change Requests (CC Forms)
- 10 Program Change Forms (PC Forms)
- 5 Experimental Course Request (EC Form)



CCC Meeting - 26 September 2023



Faculty Senate

Course Changes (CC) Requested

- File: 4982 COMP SCI 6606 : Advances in Cyber-Physical Systems
- File: 4761.3 MATH 1211 : Calculus I-B
- File: 4999 MS&E 6140 : Communication in Materials Science and Engineering
- File: 4992 STAT 5290 : Computational Bayesian Methods using Python





CCC Meeting - 26 September 2023

Program Changes (PC) Requested

File: 157.41	HIST-BA : History BA
File: 242.28	HISTORY-BS : Bachelor of Science in History
File: 170.4	NU ENG-MS : Nuclear Engineering MS
File: 211.1	NU ENG-PHD : Nuclear Engineering PhD
File: 401	PROPOSED : Environmental Science and Policy CTU
File: 403	PROPOSED : Human Factors Psychology CTU
File: 404	PROPOSED : Industrial/Organizational Psychology CTU
File: 406	PROPOSED : Neuroscience CTU
File: 405	PROPOSED : Psychology of Diversity and Inclusion CTU
File: 400	PROPOSED : Teacher Leadership CT



CCC Meeting - 26 September 2023



Faculty Senate

For Informational Purposes; No Senate Approval Required Experimental Course (EC) Requested

- File: 4996 ART 1001.002 : Popular Applied Arts
- File: 4995 ENV SCI 3001.001 : One Health Basics
- File: 4994 MATH 5001.005 : Scientific Programming with Python
- File: 4990 TCH COM 3001.003 : Video Design and Editing
- File: 5000 TCH COM 5001.004 : Advanced Video Design and Editing



CCC Meeting - 26 September 2023



Faculty Senate

Curriculum committee moves for FS to approve the 4 CC and 10 PC form actions.

Discussion: Questions or comments?



Missouri University of Science and Technology







VI. Reports of Standing Committees

B. Effective Teaching (CET)D. Burns

Online education policies



UM Policies for Online Education

- There is a <u>UM System-wide requirement</u> that instructors teaching online courses be certified to do so prior to teaching online.
- All primary instructors who teach an online course (i.e., faculty, adjunct, graduate students) must complete certification prior to teaching (guest lecturers, TAs, graders, class managers/coordinators do not need to be certified)
- Recertification will occur every 5 years, from the date of the last certification
- New faculty/instructors will be given a one-semester grace period to become certified or recertified if they are assigned to teach an online class during their first semester as a faculty member/instructor
- This is important for online program rankings, where having every instructor trained counts for as much as them all having terminal degrees!



Online education policies



Motion 1

The Committee for Effective Teaching proposes that all instructors of online courses (including "distance" courses) complete the UM System (Missouri Online) or ACUE Online Teaching Certification by May 1, 2024. If an instructor has been teaching online for three years, that person can do the recertification instead. All new instructors of online courses need to be certified before the course begins, unless it is their first semester teaching at S&T. We strongly recommend providing additional compensation to adjuncts to cover this training.



Online education policies Motion 2



To support continuous improvement in course design and maintain compliance with the UM System (Missouri Online) requirements, the Committee for Effective Teaching proposes that Missouri S&T requires a five-year cycle of Quality Course Review for online courses. This applies only to fully online, asynchronous courses (not "distance" courses). Courses will be reviewed by two Instructional Designers from Missouri Online, who are not involved in the development and teaching of the course they review, but are trained to evaluate courses using the System's quality standards.



WORKSHOP SESSIONS

Thank you for your interest in the Online Teaching Certification Seminar. Registration for 2023 sessions is now open.



Senate

Online teaching certification seminar 2024 - session 1

Feb 05, 2024 - Mar 18, 2024

Register now \rightarrow

Online teaching certification seminar 2024 - session 2

Apr 08, 2024 - May 20, 2024

Register now \rightarrow

Online teaching certification seminar 2024 - session 3

Jun 03, 2024 - Jul 15, 2024

Register now \rightarrow

Online teaching certification seminar 2024 - session 4

Jul 08, 2024 - Aug 19, 2024



Register now →

Online teaching certification seminar 2024 - session 5

Sep 09, 2024 - Oct 21, 2024

Register now \rightarrow

Online teaching certification seminar 2024 - session 6

Oct 07, 2024 - Nov 18, 2024

Register now \rightarrow







VI. Reports of Standing Committees C. ITCC P. Koob







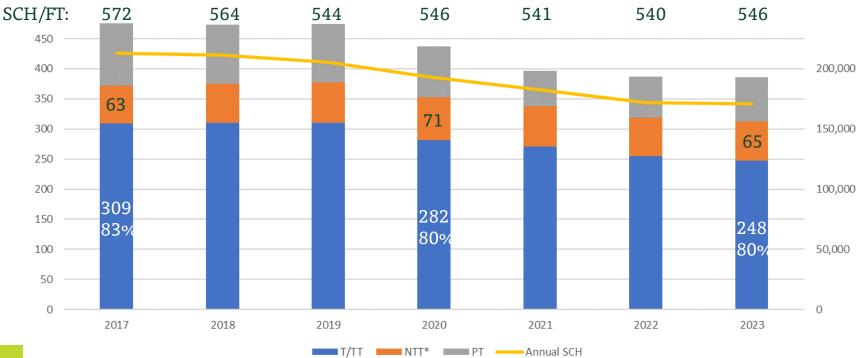
VI. Reports of Standing Committees D. Budgetary Affairs

M. Fitch

Referral on NTT/TT count



NTT Excludes research professors & post docs $(37 \rightarrow 11)^{Faculty Senate}$

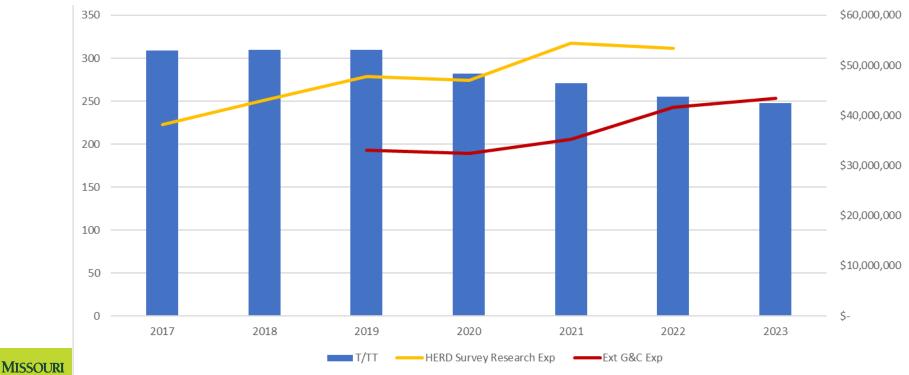




2017 – 2022 research funding



54 fewer professors, 18% decline, \$15 million increase (40%)



FY2024 - Operating Revenues



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Operating Funds (in millions)

Operating Revenues	FY2022	FY2023	FY2024	
Tuition and Fees	119.3	125.3	130.7	Nonresident enrollment up
Less Scholarship Allowances	38.7	43.6	45.5	Internal discount up as \$, similar %
Net Tuition and Fees	80.6	81.7	85.2	
Institutional Discount Rate	32.4%	34.8%	34.8%	
Auxiliary Enterprises	1.2	1.4	1.1	Student Affairs (dorms + food), mostly
Other Operating Revenues	10.5	12.5	10.7	Mostly research indirect
State Appropriations	53.0	55.9	60.1	State up a bit
Private Gifts	0.4	0.5	0.1	
Spendable Investment Income	3.4	3.6	3.7	(KF money isn't operating \$)
Total Operating Revenues	149.0	155.5	161.0	+5.5 million, 3.5%



FY2024 - Operating Expenses



Operating Expenses	FY2022	FY2023	FY2024	_
Compensation				
Salaries and Wages	73.0	77.8	130.7	6.2% increase
Benefits	23.5	24.8	29.3	17.8% increase
Total Compensation	96.5	102.7	11.9	9.0% increase
Supplies, Services and				Student Affairs (dorms + food), mostly
Other Operating Expenses	29.1	24.8	29.3	
Total Operating Expenses	125.6	155.5	161.0	_
Net Operating Income	23.4	21.0	17.5	All funds aim for 2% margin;
Capital Expense	6.4	8.9	10.1	operating funds going to capital expenses:

Faculty Senate

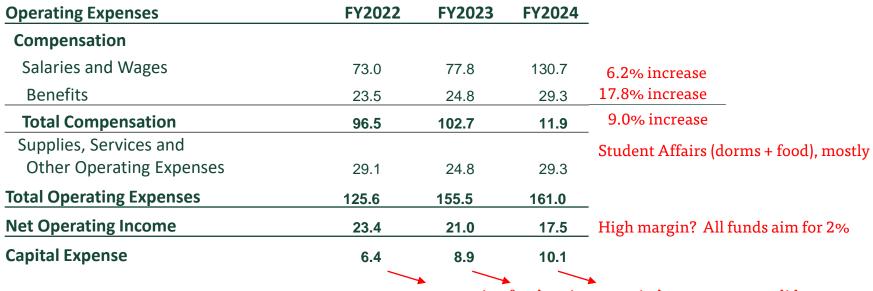
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Geothermal plant



FY2024 - Operating Expenses





operating funds going to capital expenses, next slides





Faculty Senate

Reminder on building costs (from Sept 2022)

Item	Total	Kummer Institute	Gifts	State	Internal
Arrival court	9.60	0.47	9.13	-	-
Site development and relocations	4.66	-	4.37	-	0.29
Power plant demo	3.77	-	-	3.77	-
Underground Parking Garage	10.23	9.23	1.00	-	-
Hwy 63 pedestrian underpass	4.10	-	-	-	4.10
Innovation Lab	37.72	20.66	7.50	-	6.51



Reminder on building costs (from Sept 2022)

Item	Total	Fotal Kummer Institute		State	Internal	
Protoplex	96.25	50.00	-	46.25		
Rolla Building	1.95	-	-	-	1.95	
Substation Relocation	11.15	-	-	0.91	10.24	
University Drive/ Roundabout	4.28	-	-	-	4.28	
Welcome Center	25.75	12.88	-	-	12.88	



\$41,733,322





Agenda

VI. Reports of Standing Committees

- E. Personnel
 - **D. Westenberg**





Agenda

- Changes to NTT Promotion Policy
- Qualitative Results of Annual Survey

NTT Policy Revision Goals



Faculty Senate

- Include Deans in the process
- Include Kummer College in the process
- Align process with Tenure and Promotion Process
- Revise Review Committee Composition



NTT Policy Revision Changes



- Faculty Senate
- Deans input between Department Chair and Review Comm
- Chair of Kummer College T&P Committee added to the Review Comm.
- Chair of the Review Committee will be elected from the three college T&P Committee Chairs
- Defined timeframe for rebuttal to be 14 days as with T&P
- Timeline is to be established in Spring prior to the next cycle (currently in Fall semester at the beginning of the cycle)



NTT Policy Sticking Points



Faculty Senate

- Composition of the Review Committee
 - Currently college T&P chairs, 3 NTT Teaching and 3 NTT Research
 - Candidate's Department T&P Chair is non-voting member
 - Do we need separate Teaching and Research Committee?
 - What to do if not enough eligible NTT Curators' Professors
 - Should Candidate have a representative? Representative should be non-voting and NOT an "advocate" role.







Missouri University of Science and Technology

Updated (Qualitative) Findings

Faculty-Staff Climate Survey, 2023

September-October, 2023

Open-Ended Questions



Faculty Senate

Support Action codes – Actions S&T has taken to support employees, their work, and/or their careers

"List 3-5 actions Missouri S&T has taken to support you, your work, and your career."

Wish Action codes – Actions employees wish S&T would take (or would have taken) to support them, their work, and/or their careers

"List 3-5 actions you wish Missouri S&T would take to support you, your work, and your career.



Summary of Total Responses



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627 total support code responses (39% of total comments – up from 30% in 2022), 984 total wish code responses (61% of total comments, down from 70% in 2022)

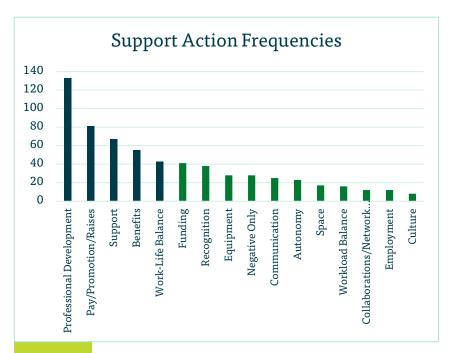
> 357 more wish code responses than support code responses

Of the 627 support code responses:

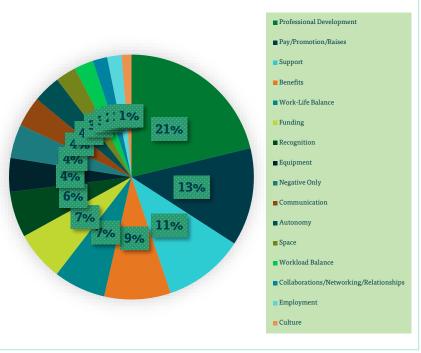
- > 28 were negative-only (4.4% of responses, down from 8.4% in 2022)
- Another 16 were sarcastic or conditional (2.6% of responses, down from 8.9% in 2022)



S&T Support Actions 2023 Data



Support Action Percents



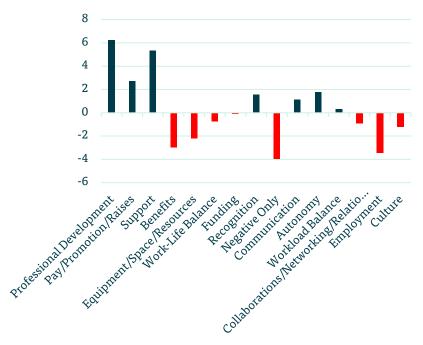


S&T Support Actions

Compare 2022 vs. 2023

2022 Top 5	2023 Top 5
Professional Development	Professional Development
Benefits	Pay/Promotion/Raises
Pay/Promotion/Raises	Support
Resources	Benefits
"Nothing"	Work-Life Balance

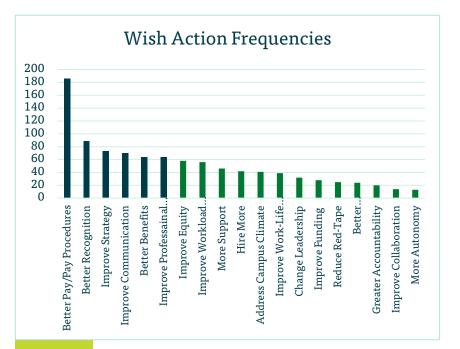
Percent Change in Support Codes 2022-2023



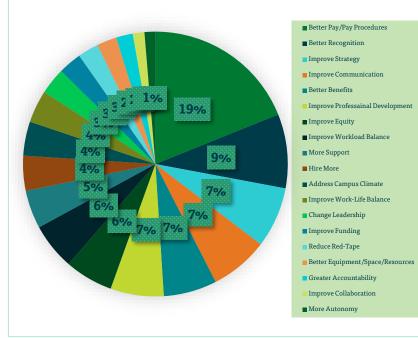


S&T Wish Actions

2023 Data – Individual Codes



Wish Action Percents



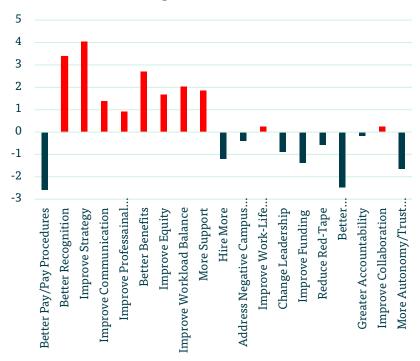


S&T Wish Actions

Compare 2022-2023 Individual Codes

2022 Top "5"	2023 Top "5"
Better Pay/Pay Procedures	Better Pay/Pay Procedures
Improve Communication	Better Recognition
Better Recognition	Improve Strategy
Improve Professional Development	Improve Communication
Hire More	Improve Professional Development
Better Equipment/Space/ Resources	Better Benefits

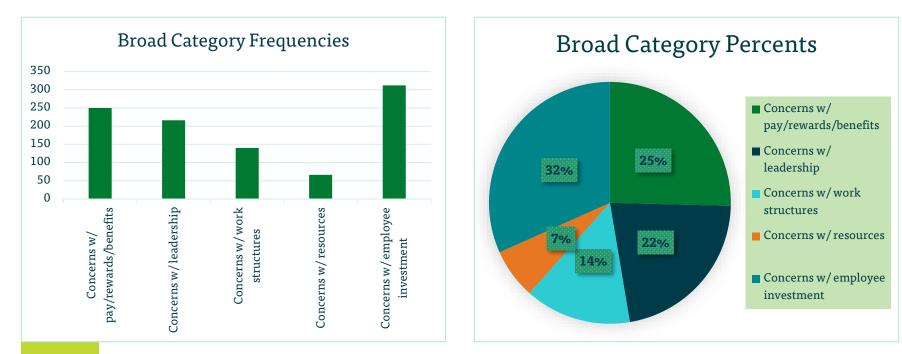
Percent Change in Wish Codes 2022-2023





S&T Wish Actions

2023 Data Broad Categories

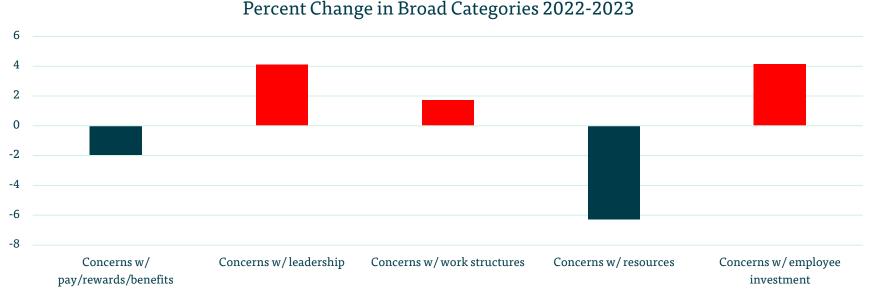








Compare 2022-2023 Broad Categories



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COACHE Survey Open Forum coming

November 1

3 pm to 5 pm







Agenda

VI. Reports of Standing Committees

F. Public Occasions

S. Sedigh Sarvestani





Approval of Academic Calendar for AY 2026 - 2027

The Public Occasions Committee moves that the following calendar be adopted for the 2026-2027 academic year



Motion 1: Academic Calendar for AY 2026 - 2 Fall Semester 2026

Open registration ends Fall semester opens 8 am Classwork begins 8 am Labor Day Holiday Fall Break begins 8 am Fall Break ends 8 am Mid-Semester Thanksgiving vacation begins 8 am Thanksgiving vacation ends 8 am Last class day Final examinations begin 7:30 am Final examinations end 5 pm Fall Semester closes 6 pm Commencement - 6 pm - PhDs in all departments Commencement- 10 am- Grad and undergrad degrees in designated departments Commencement – 3 pm grad and undergrad degrees in designated departments

August 23, Sunday August 24, Monday August 24, Monday September 7, Monday October 8, Thursday October 12, Monday October 17, Saturday November 22, Sunday November 30, Monday December 11, Friday December 14, Monday December 18, Friday December 18, Friday December 18, Friday December 19, Saturday December 19, Saturday



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Motion 1: Academic Calendar for AY 2026 -

Spring Semester 2027

Open registration ends Martin Luther King, Jr. Recognition Holiday Spring semester opens 8 am Classwork begins 8 am Spring Recess begins 8 am Mid-Semester Spring Recess ends 8 am Spring Break begins 8 am Spring Break ends 8 am Last class day Final examinations begin 7:30 am Final examinations end 5 pm Spring Semester closes 6 pm Commencement – 6 pm PhDs in all departments Commencement - 10 am Grad and undergrad degrees in designated departments Commencement – 3 pm Grad and undergrad degrees in designated departments

January 18, Monday January 18, Monday January 19, Tuesday January 19, Tuesday March 11, Thursday March 13, Saturday March 15, Monday March 28, Sunday April 5, Monday May 7, Friday May 10, Monday May 14, Friday May 14, Friday May 14, Friday May 15, Saturday May 15, Saturday



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Motion 1: Academic Calendar for AY 2026 - 2



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Summer Session 2027

Open registration ends Summer session opens 8 am Classwork begins 8 am Juneteenth Holiday (observed) Independence Day Holiday (observed) Final examinations begin 8 am Final examinations end 12:30 pm Summer Sessions close 12:30 pm

May 30, Sunday May 31, Monday May 31, Monday June 18, Friday July 5, Monday July 22, Thursday July 23, Friday July 23, Friday

Schedule shows the regular eight-week Summer Session. Other special four-week course sessions may be scheduled.





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Class Sessions (excluding final examinations)

	М	TU	W	R	F	Total MWF	Total TR
Fall	14	15	15	14	14	43	29
Spring	14	15	15	14	14	43	29
Summer	7	8	8	8	7	22	16







Change to Fall Break for 2024

The Public Occasions Committee moves that the Fall Break for 2024 be postponed by one week

Current dates: October 3, 2024 through October 6, 2024 Proposed dates: October 10, 2024 through October 13, 2024

Justification: Current dates coincide with athletic events









VII. Unfinished Business







VIII. New Business







IX. Adjourn