

THE UNIVERSITY OF WYOMING

BOARD OF TRUSTEES' REPORT

November 15-17, 2023

This document can also be found on the University of Wyoming Board of Trustees secure website.

University of Wyoming

Vision

Use our unique strengths to make Wyoming and the world a better place.

Mission

As Wyoming's university, we unlock the extraordinary in every person through education, research, innovation, engagement, and service.

Values

- Access to an affordable, high-quality education.
- Real-world education where students learn by doing.
- A welcoming and supportive learning community fostered by integrity, inclusivity, freedom of expression, and respect.
- The growth, health, and leadership capacity of all members of the university community.
- Wyoming's wild and working lands as an asset to be utilized, understood, stewarded, and treasured.
- Our partnership and engagement with Wyoming communities in the creation and exchange of knowledge and resources.
- Our role as a catalyst for innovation and economic vitality.

(Accepted January 2023)



**TRUSTEES OF THE UNIVERSITY OF WYOMING
BOARD MEETING AGENDA**

Wednesday, November 15 -Friday, November 17, 2023

UW Conference Center

Laramie, Wyoming

UNOFFICIAL MEETING SCHEDULE – COMMITTEE MEETINGS

Wednesday, November 15, 2023

Meeting Location – UW Conference Center

11:00 a.m. - 1:00 p.m. -- Facilities Contracting Committee

Committee Members: Kermit Brown (Chair)/Brad LaCroix/Jim Mathis/Carol Linton/Dave True
Salon C

11:00 a.m. – 1:00 p.m. -- Fiscal and Legal Affairs Committee

Committee Members: Macey Moore (Chair)/Brad Bonner/David Fall/Elizabeth Greenwood
Salons A & B

1:00 – 3:00 p.m. -- Research and Economic Development Committee

Committee Members: David Fall (Chair)/Brad Bonner/Elizabeth Greenwood/Brad LaCroix
Salons A & B

1:30 – 3:30 p.m. -- Biennium Budget Committee

Committee Members: Laura Schmid-Pizzato (Chair)/Kermit Brown/Carol Linton/Dave True
Salon C

3:30 – 5:00 p.m. -- Academic and Student Affairs Committee

Committee Members: Michelle Sullivan (Chair)/Brad Bonner/Jim Mathis/Macey Moore/
Laura Schmid-Pizzato
Salons A & B

5:00 – 5:30 p.m. -- Legislative Relations Committee

Committee Members: Kermit Brown (Chair)/Elizabeth Greenwood/Carol Linton/Laura Schmid-Pizzato
UW Conference Center Boardroom



**TRUSTEES OF THE UNIVERSITY OF WYOMING
BOARD MEETING AGENDA
Wednesday, November 15 -Friday, November 17, 2023
UW Conference Center
Laramie, Wyoming**

OFFICIAL MEETING SCHEDULE

Thursday, November 16, 2023

UW Conference Center

- 7:00-7:45 a.m.** **Informal breakfast at the Holiday Inn**
- 7:45 a.m.** **Travel to the UW Conference Center for the regular Board meeting**
- 8:00 – 9:30 a.m.** ***Executive Session [Session I]***
Meeting Location – UW Conference Center
- 9:30 a.m.** ***Pledge of Allegiance [Marty Martinez, UW Marna M. Kuehne Foundation Veterans Services Center]***
- 9:45 a.m.** Recognition: Wyoming Community College Commission Executive Director Sandy Caldwell's retirement
- 9:50 a.m.** Highlighting Research Excellence: Excavation of a Columbian Mammoth in Laramie County, Wyoming, Todd Surovell
- 10:15 a.m.** Wyoming Innovation Partnership Update – Schoenfeld
- 10:30 a.m.** Update to Board, UW President Ed Seidel
- 10:45 a.m.** 2023 Saddle Up Program Review, Carman, Chestnut, Courtney.....8/18
- 11:00 a.m.** ***Public Testimony***
- 11:15 a.m.** Low-Producing Programs UW Regulation 2-13 Recommendations, Carman.....9
- 11:30 a.m.** Amend Ground Lease and Update to MHRGC FF&E Replacement and Reserve Policy – Schmid-Pizzato, Kean [*see Biennium Budget Committee packet*]
- 11:45 a.m.** **Trustee Open Discussion on any Topic**
- 12:00 p.m.** ***Trustee Lunch with ASUW Leaders, UW Conference Center, Salons F & G***

TRUSTEES OF THE UNIVERSITY OF WYOMING
BOARD MEETING AGENDA

1:00 p.m. Financial Aid Plan: Review structure and financial aid awarding strategy for AY 2025-2026/FY2026 (per UW Regulation 7-11), Schmid-Pizzato, Kean
[see Biennium Budget Committee packet]

1:30 p.m. Annual Reports:

- Trustees Education Initiative – Shim.....11/34
- Science Initiative – Chitnis12/50
- Tier I Engineering – Wright.....13/72

2:15 p.m. *Break*

2:30 – 4:00 p.m. **Trustee Committee Reports** *[Note: please see individual committee packets]*

Roll Call

Academic and Student Affairs Committee; Michelle Sullivan (Chair)

- Consideration and Action:
 - Notice of Intent
 - Bachelor of Arts in European Languages, Literature and Film Studies
 - BAS Organizational Leadership Minor and Certificate
 - Agribusiness Leadership Minor and Certificate
 - Nuclear Energy Science Undergraduate and Graduate Certificate
 - MS in Pre-Clinical Sciences
 - MS in Artificial Intelligence
 - MS in Quantum Information Science and Engineering
 - PhD in English
 - Request for Authorization
 - Bachelor of Science in Ranch Management and Agricultural Leadership
 - Bachelor of Sciences in Applied Software Development

*Biennium Budget Committee; Laura Schmid-Pizzato (Chair)**Facilities Contracting Committee; Kermit Brown (Chair)*

- Consideration and Action:
 - College of Law Furnishings
 - Natatorium Site Approval, GMP, Interior Design

Fiscal and Legal Affairs Committee; Macey Moore (Chair)

- Consideration and Action
 - Annual external audited financial reports



**TRUSTEES OF THE UNIVERSITY OF WYOMING
BOARD MEETING AGENDA**

Legislative Relations Committee; Kermit Brown (Chair)

- Legislative Priorities

Research and Economic Development Committee; David Fall (Chair)

Special Events:

5:00 – 6:00 p.m.

Energy Resources Council Reception – Hilton Garden Inn, Grand Teton Ballroom

6:00 – 9:00 p.m.

Annual Trustees Scholarship Dinner – UW Conference Center

Friday, November 17, 2023

7:00 – 7:30 a.m.

Breakfast – Joint Session with the UW Board of Trustees and the Energy Resource Council

Hilton Garden Inn – Grand Teton Ballroom

7:30 – 8:45 a.m.

Joint Session with the UW Board of Trustees and the Energy Resource Council

Hilton Garden Inn – Grand Teton Ballroom

9:00 – 10:00 a.m. *Executive Session [Session II if necessary]*

Meeting Location – UW Conference Center

10:00 a.m.

Break

10:15 – 11:30 a.m.

Business Meeting

Meeting Location – UW Conference Center

Roll Call

Approval of Board of Trustees Meeting Minutes (*Public Session & Executive Session*)

- October 18, 2023, UW Board of Trustees Conference Call Meeting



TRUSTEES OF THE UNIVERSITY OF WYOMING BOARD MEETING AGENDA

Reports

ASUW - President Saber Smith
Staff Senate – President Adam Comeau
Faculty Senate – Chairman Bob Sprague

Public Testimony *[Scheduled for Thursday, November 16, 2023, 11:00 a.m.]*

Committee of the Whole

Regular Business

Board Committee Reports *[Scheduled for Thursday, November 16, 2023, at 2:30 p.m.]*

Trustee Committees - *[Note: Committees of the Board will provide reports during the regular work sessions and will not have a formal report to provide during the Business Meeting.]*

Liaison to Other Boards *[Note: Written reports are provided in advance.]*

- UW Alumni Association Board – Laura Schmid-Pizzato & Jack Tennant
- Foundation Board – Brad Bonner & David Fall
- Haub School of Environment & Natural Resources – Michelle Sullivan
- Energy Resources Council – Dave True
- Cowboy Joe – John McKinley

Proposed Items for Action:

- I. Contracts, agreements, procurements over \$2 million or 10 years in length – Evans

Information Only Items: *[no action, discussion, or work session]*

- UW Student and Business Enterprise Fee Book proposals for upcoming fiscal year – Kean *[see Biennium Budget Committee packet]*
- Annual Report: Fiscal Year Carryforward (Per UW Regulation 7-10) – Kean *[see Biennium Budget Committee packet]*
- Annual Report: Faculty Workload (Per UW Regulation 2-9)
–Benham-Deal14/77
- Annual Report: Family Medicine Residency Program – Warren15/89
- Contracts and Procurement Report (per UW Regulation 7-2) – Evans16/92
- Capital Construction Report – Brown/Mai99
- Foundation Monthly Giving Report – Stark *[provided as supplemental]*

New Business

Date of Next Meeting: December 13, 2023 (conference call)

AGENDA ITEM TITLE: Saddle Up 2023 Review, (Seidel, Carman, Chestnut, Courtney)

SESSION TYPE:

- ☐ Work Session
- ☒ Information Session
- ☐ Other
- ☐ [Committee of the Whole – Items for Approval]

APPLIES TO STRATEGIC GOALS:

- ☒ Yes (select below):
 - ☐ Institutional Excellence
 - ☒ Student Success
 - ☐ Service to the State
 - ☐ Financial Growth and Stability
- ☐ No [Regular Business]

☒ *Attachments are provided with the narrative.*

EXECUTIVE SUMMARY:

Saddle Up 2023 was the second year of the program welcoming students to campus, preparing them for academic expectations at UW, and helping to develop a community among their peers. The presentation provides a review of the retention rates for students in the 2022 Saddle Up cohort, feedback regarding the changes made from 2022 to 2023, an overview of the students participating in Saddle Up 2023 – including transfer students, assessment data gathered from students and employees on the 2023 program, and early considerations for modifications for 2024.

Data shows the positive evidence of the 2022 cohort having higher retention rates compared to those who did attend Saddle Up 2022 and student cohorts in prior years. For the 2023 cohort, feedback was overall positive with the suggestion to reduce the duration of the program or have less programming during the day. Planning for 2024 starts in November 2023.

PRIOR RELATED BOARD DISCUSSIONS/ACTIONS:

In 2022, the full Board requested an overview of the Saddle Up Program and assessment results. The same has been requested of the second administration of Saddle Up in 2023.

WHY THIS ITEM IS BEFORE THE BOARD:

A review of the Saddle Up 2023 program was requested by the AA/SA Committee and the full Board.

ACTION REQUIRED AT THIS BOARD MEETING:

n/a

PROPOSED MOTION:

n/a

PRESIDENT'S RECOMMENDATION:

n/a

AGENDA ITEM TITLE: Low-Producing Programs 2-13 Recommendations, Carman

SESSION TYPE:

- ☐ Work Session
- ☒ Information Session
- ☐ Other
- ☐ [Committee of the Whole – Items for Approval]

APPLIES TO STRATEGIC GOALS:

- ☒ Yes (select below):
 - ☒ Institutional Excellence
 - ☒ Student Success
 - ☐ Service to the State
 - ☐ Financial Growth and Stability
- ☐ No [Regular Business]

☐ *Attachments are provided with the narrative.*

EXECUTIVE SUMMARY:

Per the *Standard Administrative Policy and Procedure: Academic Program Review*, the Provost's Office must annually review degree production for all academic programs, and per UW Regulation 2-13, the Provost will make final recommendations for reorganization, consolidation, reduction of discontinuance to the President:

In January 2023, Provost Carman requested a review by colleges and schools of programs that were identified as low-producing. The Office of Institutional Analysis (OIA) provided data on all degree programs. The data identified 26 undergraduate and 34 graduate programs that were low-producing (those that average fewer than 5 graduates per year for undergraduate programs and 3 graduates per year for masters programs, over a 5-year period). In January and February 2023, Provost Carman provided the list of identified programs and the data to the Deans and made public the list of programs on the Academic Affairs website. Reports from the colleges and schools on these programs were due July 31, 2023. They included narratives that address the low-completion rate of each program and proposals to either continue, or recommend for reorganization, consolidation, reduction, or discontinuance pursuant to UW Regulation 2-13.

Following this informational report to the Board of Trustees, President Seidel and Provost Carman will initiate UW Regulation 2-13 on these recommendations on November 20, 2023. Guided by the regulation, the process over the following 120-day period will include notifying the Faculty Senate who will provide their recommendations and soliciting input from the affected departments. President Seidel will provide final recommendations for consideration and action to the Board in March 2024.

President Seidel, Provost Carman, and the Deans recommend the following low-producing programs for review under UW Regulation 2-13:

College of Agriculture, Life Sciences and Natural Resources:

- B.S. in Zoology and Physiology

College of Arts and Sciences:

- B.A. in French
- B.A. in German
- M.A. in Philosophy
- M.A. in Sociology
- B.A. in Psychology

College of Education:

- Ph.D. in Educational Administration
- Ph.D. in Higher Education Administration
- M.S. in Instructional Technology
- Ph.D. in Instructional Technology
- Ed.D. in Adult & Post-Secondary Education
- Ph.D. in Education-Literacy Education
- Ph.D. in Education-Mathematics Education
- Ph.D. in Education-Science Education

College of Engineering and Physical Sciences

- B.A. in Geology & Earth Sciences
- B.A. in Mathematics
- B.A. in Statistics

PRIOR RELATED BOARD DISCUSSIONS/ACTIONS:

Provost Carman provided a preliminary report on low-producing programs to the Board of Trustees at the September meeting. This informational report is a follow-up to that discussion with the recommendations.

WHY THIS ITEM IS BEFORE THE BOARD:

University Policy on Review of Low-Producing Programs

ACTION REQUIRED AT THIS BOARD MEETING: None

PROPOSED MOTION: **None**

PRESIDENT'S RECOMMENDATION: None

AGENDA ITEM TITLE: Trustees Education Initiative, Shim, Gull

SESSION TYPE:

- ☐ Work Session
☒ Information Session
☐ Other
☐ [Committee of the Whole – Items for Approval]

APPLIES TO STRATEGIC GOALS:

- ☒ Yes (select below):
☐ Institutional Excellence
☒ Student Success
☒ Service to the State
☐ Financial Growth and Stability
☐ No [Regular Business]

☒ *Attachments are provided with the narrative.*

EXECUTIVE SUMMARY:

Under Dr. Scott Thomas's leadership following the COVID-19 pandemic, the Trustees Education Initiative (TEI) shifted its focus from the E-4 Student Journey to the following projects:

1. **Wyoming Teacher-Mentor Corps (WTMC):** Promoting teacher excellence and supporting emerging teachers. Updates on the inaugural cohort and long-term plans will be discussed in the verbal presentation.
2. **High Altitude Pathways (HAP):** Increasing post-secondary education enrollment among rural high school students. Partnerships and events, including the High Altitude Pathways Summer Institute, will be highlighted in the verbal presentation.
3. **Master Educator Competency Program (MECP):** Equipping Wyoming teachers with skills for 21st-century student success. An update on pilot work and future directions will be provided in the verbal presentation.
4. **Wyoming's Future of Learning Collaborative:** A partnership with multiple organizations focusing on student-centered learning in Wyoming. A brief update on the statewide kickoff event and ongoing work will be given in the verbal presentation.

I believe the below can also be included under the umbrella of TEI.

5. **Career Technical Education Teacher Preparation Program Initiative:** Addressing teacher shortages in Career and Technical Education (CTE) and meeting industry demands. An update on recent progress will be provided in the verbal presentation.

PRIOR RELATED BOARD DISCUSSIONS/ACTIONS:

An update on the Trustees Education Initiative was last presented to the Board in May 2023.

WHY THIS ITEM IS BEFORE THE BOARD:

This item is required as part of the Trustees' Annual Schedule of Items to Approve, Discuss or Report.

ACTION REQUIRED AT THIS BOARD MEETING:

Not applicable

PROPOSED MOTION:

Not applicable

PRESIDENT'S RECOMMENDATION: Not applicable

AGENDA ITEM TITLE: Science Initiative Annual Report, Chitnis, Brown, Lyford

SESSION TYPE:

- ☐ Work Session
- ☒ Information Session
- ☐ Other
- ☐ [Committee of the Whole – Items for Approval]

APPLIES TO STRATEGIC GOALS:

- ☒ Yes (select below):
 - ☒ Institutional Excellence
 - ☒ Student Success
 - ☒ Service to the State
 - ☒ Financial Growth and Stability
- ☐ No [Regular Business]

☒ *Attachments are provided with the narrative.*

EXECUTIVE SUMMARY:

In FY2024, Science Initiative received a one-time appropriation to complete the Science Initiative Building and annual appropriations for operating the programs proposed in the initiative. The current report covers FY2023, prior to the appropriation to complete the building and provide funding for all activities and addresses the Science Initiative educational and outreach programming. In the current report year, SI's educational and outreach programs demonstrated outstanding outcomes and impressive impacts through community engagement, outreach to schools, fostering active learning and research opportunities for undergraduate students. During the current fiscal year, the Top Tier Science Initiative funding will help establish the UW Science Institute with a formal organization that will allow efficient and strategic management of resources to ensure UW achieves the original goal of becoming a top tier science and technology university. The Science Institute (SI) will catalyze convergence of physical, social, and biological sciences, engineering, humanities, and computing to address Wyoming's needs through transformative research, engagement, and experiential learning. Progress on this transition will be presented in the annual report of the Research and Economic Development Division in January 2024.

PRIOR RELATED BOARD DISCUSSIONS/ACTIONS:

An update on the Science Initiative was last presented to the Board in November 2022.

WHY THIS ITEM IS BEFORE THE BOARD:

This item is required as part of the Trustees' Annual Schedule of Items to Approve, Discuss or Report.

ACTION REQUIRED AT THIS BOARD MEETING:

N/A.

PROPOSED MOTION:

N/A

PRESIDENT'S RECOMMENDATION:

N/A

AGENDA ITEM TITLE: Tier-1 Engineering Initiative Report, Wright

SESSION TYPE:

- ☐ Work Session
- ☐ Information Session
- ☒ Other
- ☐ [Committee of the Whole – Items for Approval]

APPLIES TO STRATEGIC GOALS:

- ☒ Yes (select below):
 - ☒ Institutional Excellence
 - ☒ Student Success
 - ☒ Service to the State
 - ☒ Financial Growth and Stability
- ☐ No [Regular Business]

☒ *Attachments are provided with the narrative.*

EXECUTIVE SUMMARY:

The Tier-1 Engineering Initiative (EI), a joint effort between UW, the Wyoming Legislature, Governor's Office and other critical stakeholders, seeks to advance UW's capacity and status in engineering and related fields, including attaining Carnegie R1 status. This annual report captures the main activities related to the Tier-1 EI as of November 2023. For helpful context, the report is organized in a succinct "past, present, future" format. Considerable progress has been made in academic programs, student success, research activity, and facilities. Continuing Tier-1 funding of these areas, with new investments in shared equipment and new research opportunities, are described. Additional Tier-1 funding was granted as part of the most recent UW supplemental budget request, and the use of that funding is also described in the report. Future growth in key areas, guided by Tier-1 goals and UW's Strategic Plan, are also described.

PRIOR RELATED BOARD DISCUSSIONS/ACTIONS:

An update on the Tier 1 Engineering Initiative was last presented to the Board in November 2022.

WHY THIS ITEM IS BEFORE THE BOARD:

This item is required as part of the Trustees' Annual Schedule of Items to Approve, Discuss or Report.

ACTION REQUIRED AT THIS BOARD MEETING:

None.

PROPOSED MOTION:

None.

PRESIDENT'S RECOMMENDATION:

NA.

AGENDA ITEM TITLE: Faculty Workload Report, Benham Deal

SESSION TYPE:

- ☐ Work Session
- ☐ Information Session
- ☒ Other
- ☐ [Committee of the Whole – Items for Approval]

APPLIES TO STRATEGIC GOALS:

- ☒ Yes (select below):
 - ☒ Institutional Excellence
 - ☐ Student Success
 - ☐ Service to the State
 - ☐ Financial Growth and Stability
- ☐ No [Regular Business]

☒ *Attachments are provided with the narrative.*

EXECUTIVE SUMMARY:

Faculty conduct numerous activities that support the mission of the University, including teaching, research and/or creative activities, administration, advising, service/outreach/engagement, and extension. The University maintains a flexible workload policy that allows academic units to capitalize on each faculty member's strengths to meet the mission of the university, college, and academic unit. This report provides an analysis of faculty workload.

PRIOR RELATED BOARD DISCUSSIONS/ACTIONS:

N/A

WHY THIS ITEM IS BEFORE THE BOARD:

University Regulation 2-9 (Workload Policy) requires the Provost to submit an annual report providing an analysis of faculty workload.

ACTION REQUIRED AT THIS BOARD MEETING:

N/A

PROPOSED MOTION:

N/A

PRESIDENT'S RECOMMENDATION:

N/A

AGENDA ITEM TITLE: Family Medicine Residency Program Annual Institutional Review Executive Summary, Warren

SESSION TYPE:

- ☐ Work Session
- ☒ Information Session
- ☐ Other
- ☐ [Committee of the Whole – Items for Approval]

APPLIES TO STRATEGIC GOALS:

- ☒ Yes (select below):
 - ☒ Institutional Excellence
 - ☒ Student Success
 - ☒ Service to the State
 - ☐ Financial Growth and Stability
- ☐ No [Regular Business]

☒ *Attachments are provided with the narrative.*

EXECUTIVE SUMMARY:

The University of Wyoming Family Medicine Residency Programs (FMRP) are accredited through the Accreditation Council for Graduate Medical Education (ACGME). Each year, the director of the FMRP (officially titled the Designated Institutional Official, or DIO) works with the Graduate Medical Education Committee (GMEC) to conduct a GMEC-required Annual Institutional Review (AIR). The AIR functions as an annual evaluation of the FMRP with the goal of identifying areas of success and areas of improvement needed to ensure long-term success and sustainability. The AIR is generated from a comprehensive assessment of FMRP successes, challenges, and opportunities.

Per ACGME accreditation guidelines, “The DIO must annually submit a written executive summary of the AIR to the Sponsoring Institution’s Governing Body,” which for UW FMRP is the Board of Trustees. Attached is the 2023AIR Executive Summary for the UW FMRP, created and approved by the GMEC, the DIO, and the Dean of the College of Health Sciences. There is no action that is needed on behalf of the Trustees other than receipt of the document.

PRIOR RELATED BOARD DISCUSSIONS/ACTIONS:

The AIR is submitted annually to the Board of Trustees in November as an informational item.

WHY THIS ITEM IS BEFORE THE BOARD:

Per ACGME accreditation guidelines, the AIR must be submitted each year to the governing body of the sponsoring institution for the FMRP, which is the Board of Trustees.

ACTION REQUIRED AT THIS BOARD MEETING:

Information only item.

PROPOSED MOTION:

N/A

PRESIDENT’S RECOMMENDATION:

N/A

AGENDA ITEM TITLE: Service Contract and Procurement Reports, Evans

SESSION TYPE:

- ☐ Work Session
- ☐ Information Session
- ☒ Other
- ☐ [Committee of the Whole – Items for Approval]

APPLIES TO STRATEGIC GOALS:

- ☐ Yes (select below):
 - ☐ Institutional Excellence
 - ☐ Student Success
 - ☐ Service to the State
 - ☐ Financial Growth and Stability
- ☒ No [Regular Business]

☒ *Attachments are provided with the narrative.*

EXECUTIVE SUMMARY:

Per UW Regulation 7-2 (Signature Authority), unless otherwise limited by UW Regulation or reserved by the Board of Trustees, the President shall have authority to approve and/or sign University contracts, federal contracts, agreements, memorandums of understanding, and procurements that involve an external party, require consideration (paid or received) valued less than \$2,000,000 (one-time or in aggregate), and for which the term is less than ten years. The President may delegate this authority to University Officers for such contracts, federal contracts, agreements, memorandums of understanding, and procurements that require consideration (paid or received) valued less than \$1,000,000 (one-time or in aggregate) and for which the term is less than five years.

As required by the Regulation, attached are the following reports:

- 1) Service Contracts (including contracts, federal contracts, agreements, and memorandums of understanding) valued at \$50,000 or above (one-time or in aggregate) from August 16, 2023 – October 15, 2023
- 2) Procurements valued at \$50,000 or above (one-time or in aggregate) from August 16, 2023 – October 15, 2023

Service contract workflow

Per the University's Standard Policy and Procedure (Signature Authority), the President can delegate signature authority to University officers for service contracts valued less than \$1,000,000 (one-time or in aggregate) and for which the term is less than five years.

Procurement workflow

Cost Center Managers (business manager level or designee) approve all purchases, and are the final approvers for purchases of \$99,999 or less. Deans/Associate Vice Presidents are the final approvers for purchases between \$100,000 and \$499,999. Vice Presidents are the final approvers for purchases between \$500,000 and \$999,999. The President is the final approver for purchases between \$1,000,000 and \$1,999,999. The Board of Trustees approves purchases of \$2,000,000 and above.

PRIOR RELATED BOARD DISCUSSIONS/ACTIONS:

Standing information item at each in-person Board of Trustees meeting.

WHY THIS ITEM IS BEFORE THE BOARD:

Per UW Regulation 7-2 (Signature Authority), at each regular meeting of the Board of Trustees (excluding conference calls), the President shall provide a written report to the Board of Trustees identifying each contract, federal contract, agreement, memorandum of understanding, or procurement valued at \$50,000 or above (one-time or in aggregate) signed by the President or designee under this provision.

ACTION REQUIRED AT THIS BOARD MEETING:

N/A. Information Only.

PROPOSED MOTION:

N/A. Information Only.

PRESIDENT'S RECOMMENDATION:

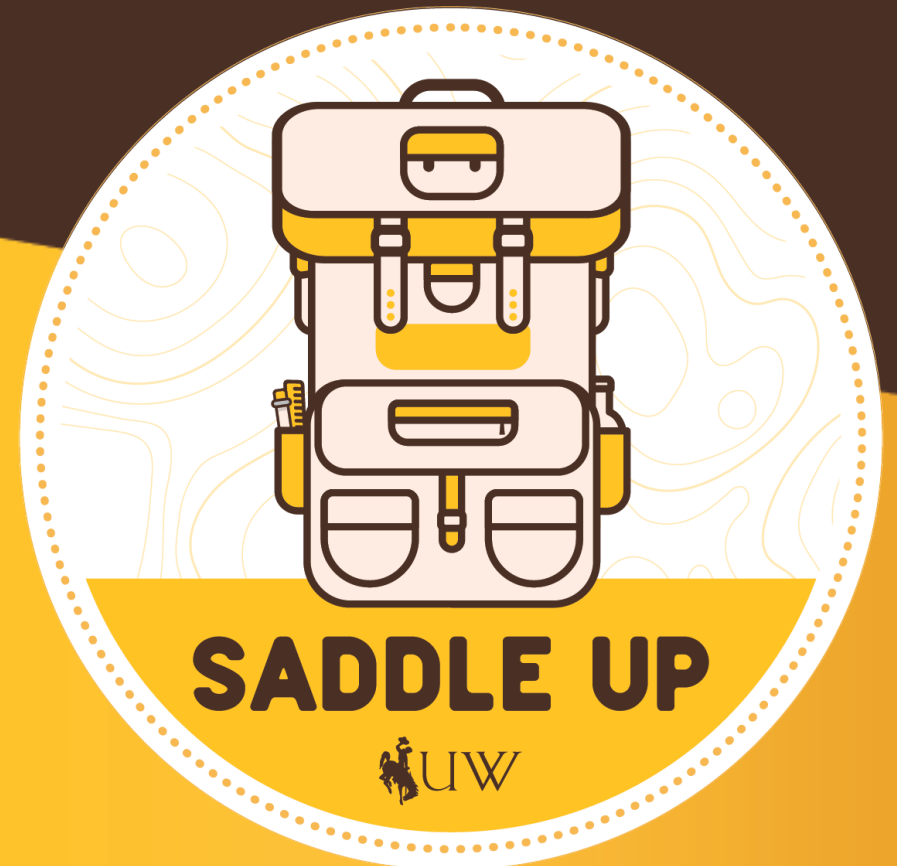
N/A. Information Only.

AGENDA ITEM TITLE: Saddle Up 2023 Review, (Seidel, Carman, Chestnut, Courtney)

Saddle Up Debrief and Analysis

Second Year Program Review

THE WORLD NEEDS MORE COWBOYS.

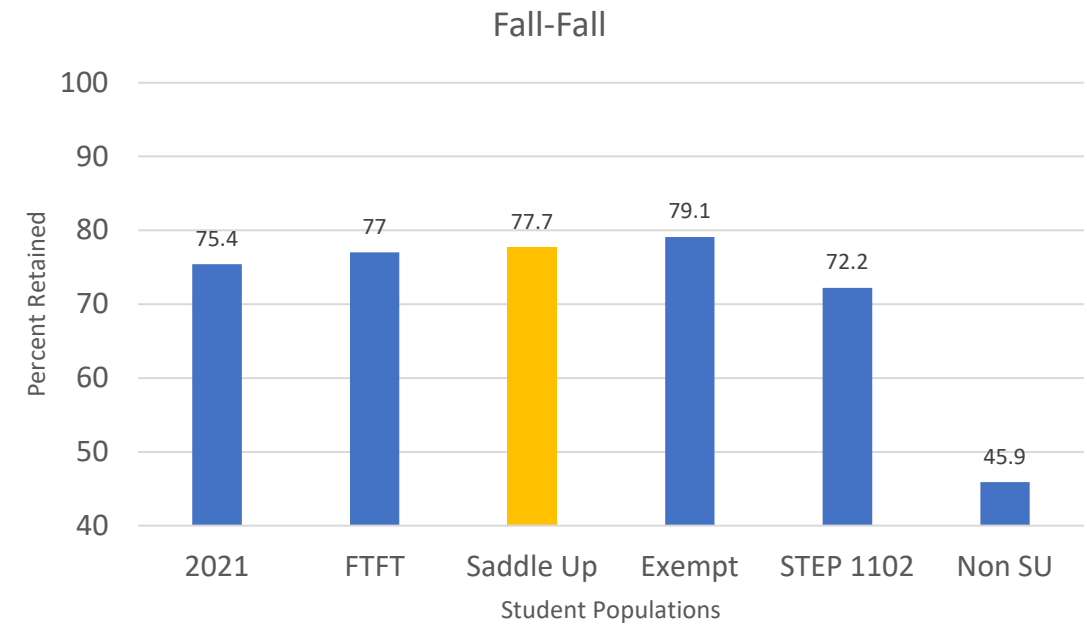
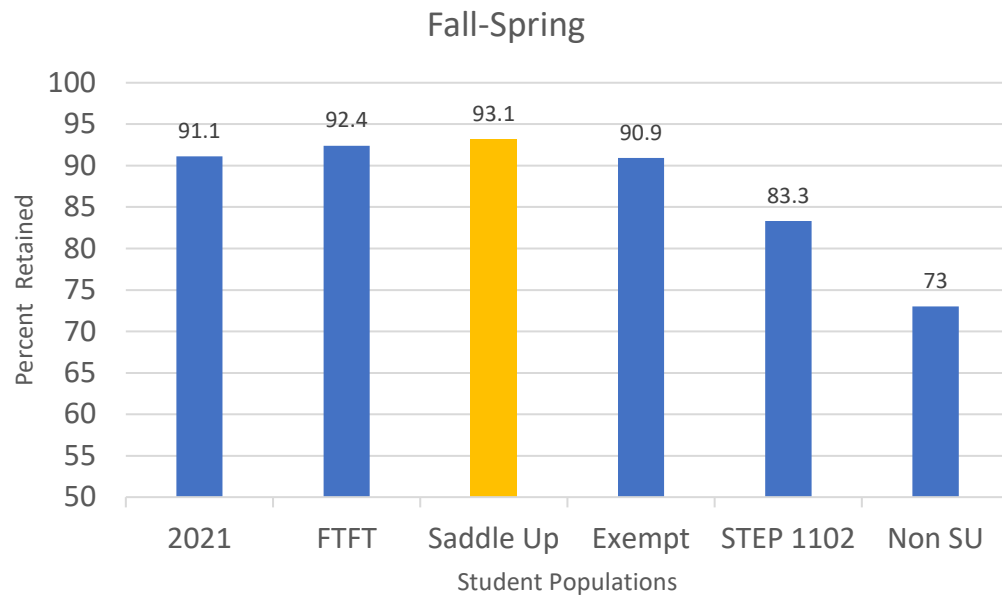


Outline:

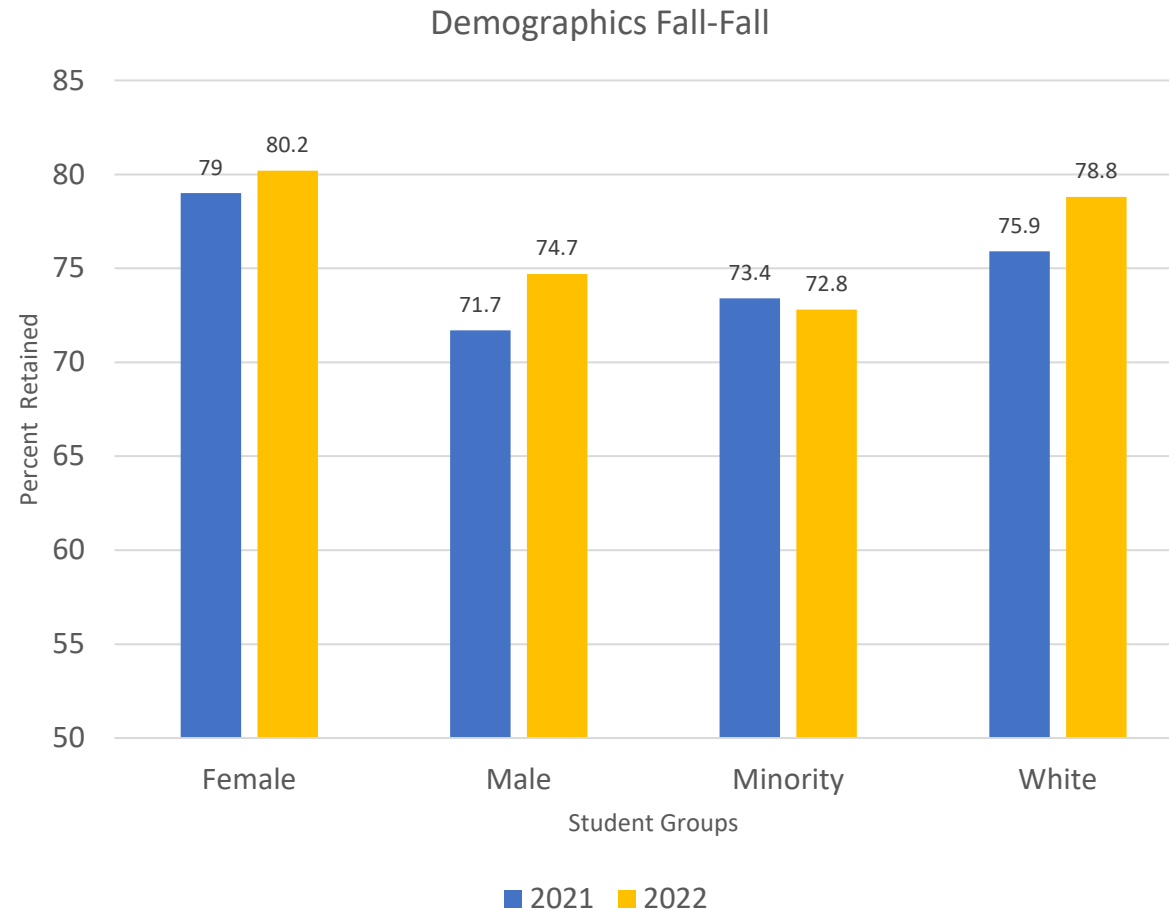
- Saddle Up 2022: Retention Data
- Saddle Up 2022 Feedback: How Requests Were Delivered
- Saddle Up 2023: By the Numbers
- Transfer Saddle Up 2023
- Saddle Up Up 2023: Student & Employee Listening Sessions
- 2023 Student Pre- and Post-Survey Highlights
- Saddle Up 2023: Open Feedback
- Looking Forward

*THE WORLD NEEDS MORE
INSPIRED CREATIVITY.*

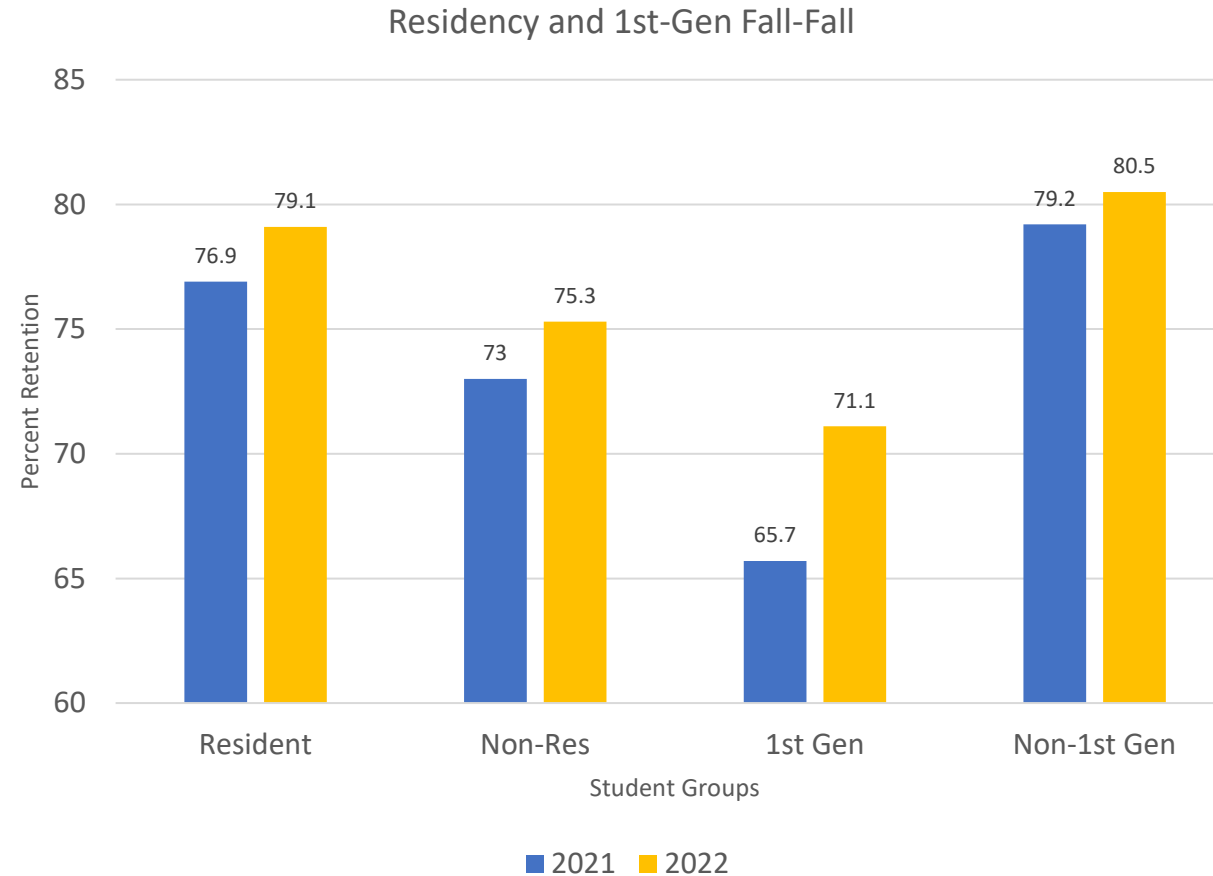
Saddle Up 2022: Retention Data



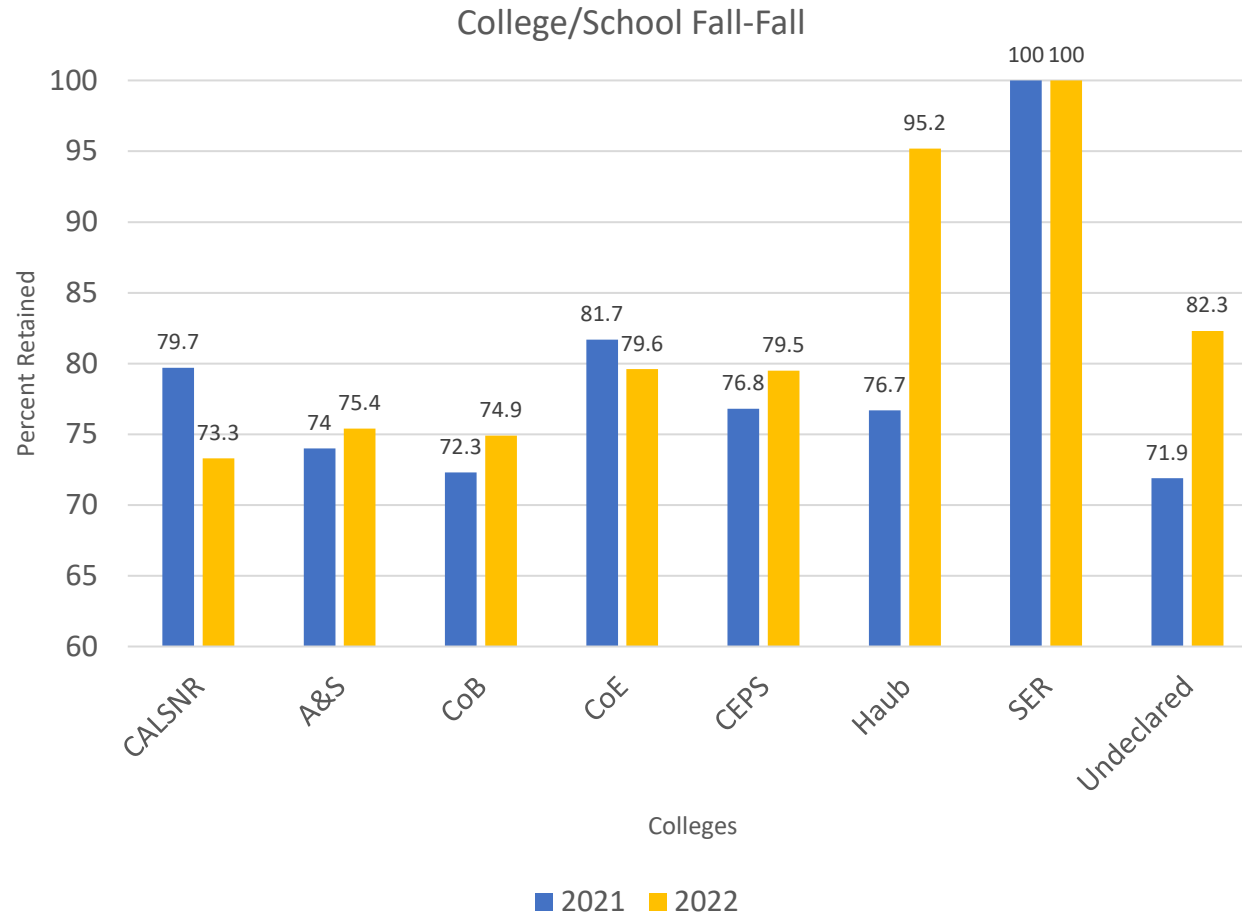
Saddle Up 2022: Retention Data



Saddle Up 2022: Retention Data



Saddle Up 2022: Retention Data



Saddle Up 2022 Feedback: How Requests Were Delivered

Schedule Optimization



In 2023, we introduced CVENT, a conference scheduling app to the Saddle Up experience.

More Classes Offered



In 2023, courses were adjusted to provide relevant programming to all majors, including Computer Science, American & Wyoming Government, and Macroeconomics.

*THE WORLD NEEDS MORE
ADVENTUROUS SPIRIT.*

Saddle Up 2022 Feedback: How Requests Were Delivered

More Time to Settle In



This year, a Friday move-in with light weekend programming allowed use of campus resources and exploration of their new community.

Adjustment of Skill
Sessions



In 2023, Saddle Up Skill Sessions included content on time management, study skills, and mental wellness.

*THE WORLD NEEDS MORE
OUTSIDE THINKERS.*

Saddle Up 2022 Feedback: How Requests Were Delivered

More Optional Sessions



Required programming was reduced for a later start time and earlier end time. We partnered with CSIL and Housing to provide fun evening programming each night.

Longer Mealtimes



Students were given 90 minutes for lunch and dinner, staggered in cohorts to reduce lines

*THE WORLD NEEDS MORE
RELENTLESS CURIOSITY.*



Saddle Up 2023: By the Numbers

Total Participants: 1228

- 1212 First-Time (1202 FT & 10 PT)
- 14 transfer students
- 2 graduate/exchange students
opted in

Exempted First-Time Students:

115 student-athletes
67 marching band members
14 ROTC students
7 Pathways from Prison

Approved Students for Waiver:

17 for various reasons including
mission trips, medical or family
emergencies

Non-Attendees:

31 non-attendees

Program Fees Waived:

243 total students of which 241
were Pell Grant recipients

Transfer Saddle Up 2023

Participants:

- 63 transfer students in the Friday experience, 11 opted into the full week of Saddle Up
- ALL transfer students were invited, not only first-time UW transfer students

Schedule Highlights:

UW 101 Panel

With guests from Student Financial Services, UWPD, Office of the Registrar, and more

Create & Explore

Explored campus resources through activities at Campus Rec, Coe Libraries, and the EERB

Campus Tours

Hosted by transfer student Cowboy Coach peer mentors

Convocation

Transfer students joined first-time full-time students for Convocation

Community-Building Events

Invited to join all students downtown at the Farmer's Market and Union After Dark

Saddle Up 2023: Student & Employee Listening Sessions

Feedback Themes:

- Appreciated edits made to the schedule.
- Courses offered being more major specific was well received.
- Skill Session prioritization & pertinency appreciated by students.
- Where faculty and administration participated in sessions, it was greatly appreciated by students. However, students would like even more opportunities to engage with key employees in their colleges.
- Student staff were better trained, allowing for greater support within Packs and college sessions.
- Hands on experiences still need to be infused in many areas.
- Faculty see increased office hour attendance, after-class discussions and general student comfortability post Saddle Up
- Further content collaboration between faculty, College Session facilitators, and Skill Session facilitators would improve student experience.



2023 Student Pre- and Post-Survey Highlights

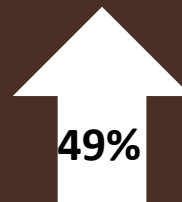
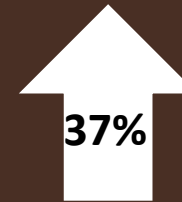
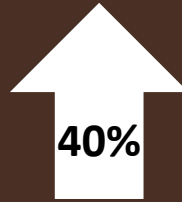
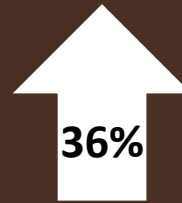
Pre-Survey Response: 1150

33% viewed establishing a study group as important or very important

39% felt comfortable or very comfortable accessing UW Libraries to study

45% had moderate to high understanding of specific test-taking strategies and techniques

30% agreed or strongly agreed that they know how to access UW Academic Support Services



Post-Survey Response: 708

69% viewed establishing a study group as important or very important

79% felt comfortable or very comfortable accessing UW Libraries to study

82% had moderate to high understanding of specific test-taking strategies and techniques

79% agreed or strongly agreed that they know how to access UW Academic Support Services

Saddle Up 2023: Open Feedback

Feedback Themes:

- Students most liked meeting new people.
- Other highlights for students included the following:
 - Poke Pack Leaders
 - Optional Activities
 - Taking the Class
- The biggest suggestion from some students and some staff is to make Saddle Up 2024 less busy or shorter.
- Some PASS Leaders want a bit more training and communication with faculty members.
- Some students, faculty, and Poke Pack leaders experienced some frustration with QR codes and recording attendance. Paper attendance and the Saddle Up hotline were helpful in ensuring attendance accuracy.



Looking Forward

Feedback:

Listening sessions and overall feedback were complete as of October 20th.

Planning:

Saddle Up 2024 preparation will begin in November. Additional attention and resources will be focused on transfer students.

Implementation:

We have already begun planning adjustments to meet feedback notes for fall 2024.

Tangible Student Response:

Saddle Up students participating at a notably higher rate with Cowboy Coach peer mentors compared to fall 2022.

*THE WORLD NEEDS MORE
INSPIRED CREATIVITY.*

AGENDA ITEM TITLE: Trustees Education Initiative Annual Report, Shim

UW Board of Trustees Report - Public Session
November 15-17, 2023

AGENDA ITEM TITLE: Trustees Education Initiative Update (Attachments)
Jenna Shim, Colby Gull

Appendix A includes a recent article featured in Casper Tribune largely about the first 4 initiatives.

https://trib.com/news/state-regional/education/uw-college-of-education-teacher-initiatives/article_6c0775e6-6850-11ee-a58b-331daf1a5fe9.html#tracking-source=home-top-story

Appendix B includes photos of the Wyoming Teacher Mentor Corps graduation ceremony.

Appendix C includes informational materials for the CTE initiative, including a flyer for a bridge course offered this spring to attract more students to the program.

Appendix A:

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ALERT TOP STORY

As state's K-12 landscape changes, UW's College of Education aims to reshape teacher development

Aedan Hannon Oct 13, 2023 Updated Oct 13, 2023 0

ALERT TOP STORY

As state's K-12 landscape changes, UW's College of Education aims to reshape teacher development

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A couple of weeks ago, Jenna Shim spent the day talking with the principal and teachers at Encampment's K-12 school.

The visit was typical of the regular outreach that Shim, the Jack Ellbogen Interim Dean of the University of Wyoming's College of Education, tries to do, touring school districts around the state to hear from teachers and administrators.

During their conversation, Encampment's staff discussed the qualities they consider when hiring new teachers.

"They look for skills, but more importantly they look for the fit and they look for their commitment because that's what's going to keep them in classrooms," Shim said.

As is true for many school districts in Wyoming, the majority of teachers in Carbon County School District No. 2, Encampment's district, graduated from UW. UW's College of Education accounts for more teachers in Wyoming than any other institution, according to a report from Christiana Stoddard, an economics professor at Montana State University and education finance consultant for the state.

As such, UW's College of Education plays a significant role in shaping the future of K-12 schooling in Wyoming. The decisions that Shim and the college make reverberate. They manifest in classrooms with each UW-trained teacher. That's in part why Shim makes the effort to see schools.

"I try to visit these school districts to learn from them as much as I can because they have such valuable insights," she said.



EDUCATION

RIDE kickoff marks launch of new vision for Wyoming education

Maya Shimizu Harris

Years of listening to educators and schools, growing teacher retention and attrition concerns, and a rapidly changing K-12 landscape have led UW's College of Education to launch a series of recent initiatives that promise to reshape teaching and teacher development in Wyoming. Central to the College of Education's push is a plan to support educators through what Shim and former Dean Scott Thomas call the "arc" of their careers, engaging with them well beyond the limits of Laramie's campus.

"We try to do our part preparing them, but it's much bigger than that," Shim said.

Imagine that you're a high school student in Meeteetse, Sundance or just about any other small town in Wyoming. You think you might want to attend UW or another college, but you're not sure how to apply or how to pay. So you go to your counselor.

The data suggests that you may not get the help you need. Though there has been **recent work** to close the gaps, a 2012 College Board national survey found that **a majority of school counselors** felt ill-prepared and lacked the training to help students with college admissions and career preparation. The effects of unprepared counselors can be especially significant in rural communities, which already **have less access** to school counselors and have lower college enrollment rates.

In 2022, UW's College of Education and Trustees Education Initiative **received a \$1.2 million grant** from the U.S. Department of Education to improve the college enrollment and attainment of Wyoming's rural and first-generation students, including by training school staff in college and career preparation. The resulting initiative was dubbed UW's High Altitude Pathway, a three-year program that works with a number of public schools, alternative education centers and after-school programs to expose rural high school students to higher education and better prepare them to pursue advanced studies and training.

During the program, students undergo training created by College for Every Student (CFES) Brilliant Pathways, an education group dedicated to improving college and career readiness. They learn about potential careers as well as applying and paying for higher education, including accessing financial. They also get hands-on experience at UW, which they visit during the summer for an immersion trip. At the same time, teachers, counselors and administrators receive training from CFES Brilliant Pathways and the College of Education so they can better guide those students who are interested in attending college or pursuing other post-high school programs.



LATEST HEADLINES

State coalition launches pilot project to kick-start education remake

Aedan Hannon

While UW's High Altitude Pathway is aimed broadly at improving college attainment and career preparation, it has also served another purpose for the College of Education. Alongside nursing and other professions, the high school students in the program learn about teaching, Shim said. For the students and the College of Education, the exposure can be a benefit.

"A small subset of our efforts are about recruiting teachers and really helping them understand what teaching is about and whether or not it's a good fit for them," she said. "At the end of the day, that fit is really important."

For those students who are interested, UW could very well be their next stop. And that's where the College of Education's second initiative comes in.

Around the same time the College of Education was securing money to start the High Altitude Pathway program, it was also **receiving money** to start a rural teaching corps. In March 2022, the College's School of Teacher Education obtained a \$25,000 grant from the Rural Schools Collaborative, a nonprofit dedicated to bolstering rural schools, to develop the teacher corps alongside Teton Science Schools in Jackson.

While the College of Education’s coursework is designed to give students the skills they need, including hands-on learning through residencies, the actual experience of teaching in Wyoming’s rural communities is unique and can be a challenge.

“That is very different than [teaching] in other areas, and that’s where the retention rate is the lowest,” Shim said.

The first Rural Teaching Corps cohort last year saw **a dozen students** in the College of Education paired with teachers from rural school districts across the state. They received training in place-based education, a model in which educators root their teaching in their local communities and environments, as well as mentorship to help them feel more comfortable as they move toward teaching in rural areas, according to Teton Science Schools. The program’s goal is to not only better prepare UW students to enter rural classrooms, but to create a community where rural educators can get the help they need as they start the profession.



EDUCATION

You’ve heard of teacher turnover. It’s a problem for administrators, too.

Aedan Hannon

“The first piece is when they’re in high school,” Shim said. “The second piece is that rural teacher corps while they are in our teacher prep program.”

While lawmakers often focus their attention on training new educators to address Wyoming’s teacher shortages, Shim follows Thomas, the former dean of the College of Education, in reciting the idea that if Wyoming could retain more of its teachers, the state could solve its staffing challenges. Shim said the College of Education has consistently heard from Wyoming teachers that they don’t feel like they have a voice in their learning and professional development and it’s driving them to leave the profession. The College of Education’s third initiative, the Master Educator Competency Program, is an attempt to solve that issue.

With the goal of keeping quality early and mid-career teachers in the classroom, the program aims to give educators tailored professional development that more directly applies to them and their work. Since last year, the College of Education has been holding listening sessions and interviewing teachers about the skills and knowledge they need to better prepare students. The college has been working with 2Revolutions, a national education design lab, to take that input and **build interactive learning courses** that help teachers continue to learn and develop.

Unlike more traditional approaches to professional development, which often track the time a person spends learning, the digital modules are “competency-based,” meaning that teachers have to master new skills and learn their content in more depth, Shim said. Educators who participate in the program can put the courses toward renewing their license or advancing their pay. The College of Education is also moving to allow some of the courses to go toward a master’s degree.

“When you look at the research one of the reasons why teachers are leaving the profession is because of lack of autonomy or lack of respect,” Shim said. “[The Master Educator Competency Program] is really going straight to teachers about what they need and what they would like to learn.”



LOCAL NEWS

Making teachers feel valued might be the solution to keeping them

Aedan Hannon | 19 min to read

Meeting the needs of teachers also sits at the heart of College of Education’s last initiative, though for a group of educators that is often forgotten. Recruitment and retention efforts in Wyoming and across the country often target young and early career teachers, those who will be in the profession for the next few decades. Yet, keeping older teachers can be just as crucial.

Numerous studies show that teachers are increasingly unhappy and considering leaving the profession, including one recent survey by UW researcher Mark Perkins which found that a majority of Wyoming teachers would leave if they could. But those sentiments vary. A **2021 study** by researchers at the University of Arkansas and Saint Louis University found that it was older teachers nearing retirement who were considering leaving the profession at higher rates during the coronavirus pandemic.

“Veteran teachers, especially in rural states like this, can get tired,” Shim said.

“They’ve plateaued in their career. They don’t feel the sense of purpose anymore. And that also causes them to leave their profession earlier than they had planned to.”

The College of Education’s Wyoming Teacher-Mentor Corps wants to keep that passion alive by connecting expert teachers with those who are just entering the profession.

Launched in 2022, the Teacher-Mentor Corps is in its second year. The **current cohort** of 19 teachers represents 13 of Wyoming’s 48 school districts, according to a UW news release. Throughout the program, veteran educators mentor emerging teachers who are both preparing to enter the classroom and those who are in their first couple of years. They attend two summer “institutes” in Laramie as well as in-person retreats where they pass on their knowledge and use their expertise to prepare the next generation of Wyoming teachers.

According to Shim, the program has been incredibly successful, so much so that the College of Education is now building a similar one for principals while also thinking about expanding it to a national model.



LATEST HEADLINES

Neighboring states catching up to Wyoming on teacher salary

Aedan Hannon

Taken altogether, the four initiatives the College of Education has established in the last few years represent an “almost lifelong commitment,” Shim said, not only to UW’s teaching candidates but to educators across the state.

“At each stage of supporting teachers, we may have different players from the university,” she said. “But it requires that kind of collaborative effort to follow them and to keep them in classrooms and make that a rewarding profession.”

Adapting to a changing landscape

K-12 schooling in Wyoming is changing. That’s clear. What it will look like a decade down the road, though, is a question that education officials, lawmakers, the College of Education and school staff have yet to answer.

For starters, the Wyoming State Board of Education is moving to reduce the standards that teachers and administrators have long said make their jobs more difficult and stand in the way of student learning. The Wyoming Department of Education is working with school districts to strengthen career and technical education, while the agency recently announced an initiative that will incorporate wildlife, hunting and conservation education into classrooms.

But all of those changes are shadowed by the **looming statewide shift** to competency-based and student-centered learning, which will transform Wyoming’s K-12 system.



EDUCATION

Nine Wyoming school districts to participate in RIDE pilot program

Maya Shimizu Harris

In July, “Wyoming’s Future of Learning,” the coalition that is leading the transition, which includes UW’s College of Education, the Department of Education, State Board of Education and Gov. Mark Gordon’s office, announced that it had **accepted nine school districts** for the state’s first pilot program trialing competency-based and student-centered learning. Under the new approach, the school districts and their students will focus on the “mastery” of a subject rather than test scores and time spent in a classroom. Students will have more freedom to shape their instruction and learning, while experiences outside of the classroom will also take on a new emphasis. The goal is to ultimately move students away from rote memorization to applying what they learn.

UW's College of Education is set to play a critical role as the statewide transformation begins. It will serve as the bridge, turning policy into practice. Amid the changing landscape, the College of Education is adapting, too. Increasingly, the school is looking to apply the practices it is training teachers to use, including a new focus on competency-based learning.

“Our role in the College of Education is to continue to support teachers across the state so that they are very well versed and know what it looks like on the ground to implement that student-centered learning,” Shim said.

For Shim, the changes and the college's broader teacher initiatives are simply the steps UW needs to take to support educators and keep pace with our evolving society.

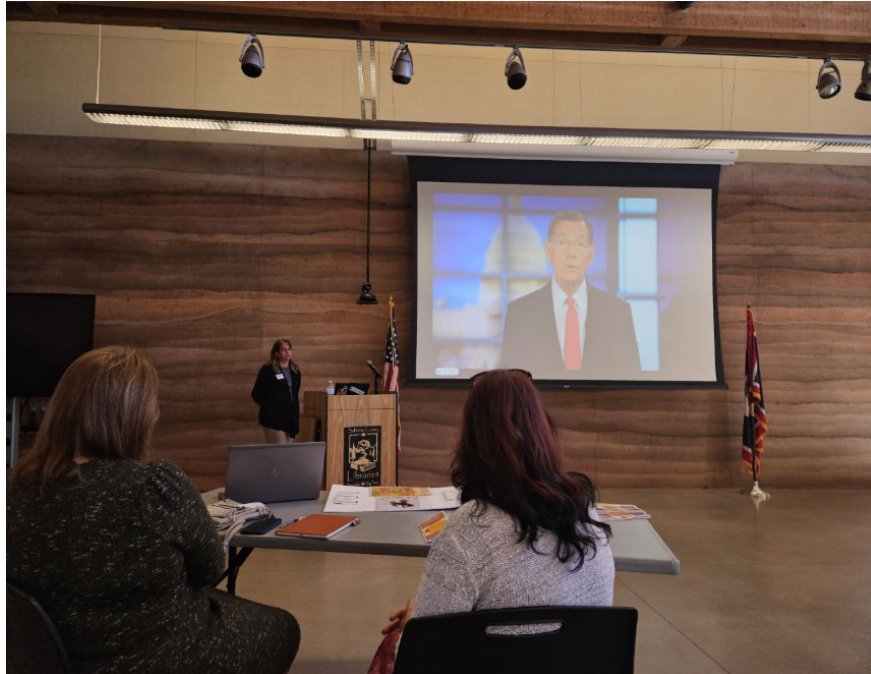
“We need to change how we educate our students that aligns with how the world is changing,” she said. “The flip side is that we have to also change how we train our teachers.”

Your news on your smartphone

Your story lives in Wyoming, and our new mobile app is designed to make sure you don't miss breaking news, the latest scores, the weather forecast and more. From easy navigation with the swipe of a finger to personalized content based on your preferences to customized text sizes, the Star-Tribune app is built for you and your life. Don't have the app? Download it today from the Apple App Store or Google Play Store.

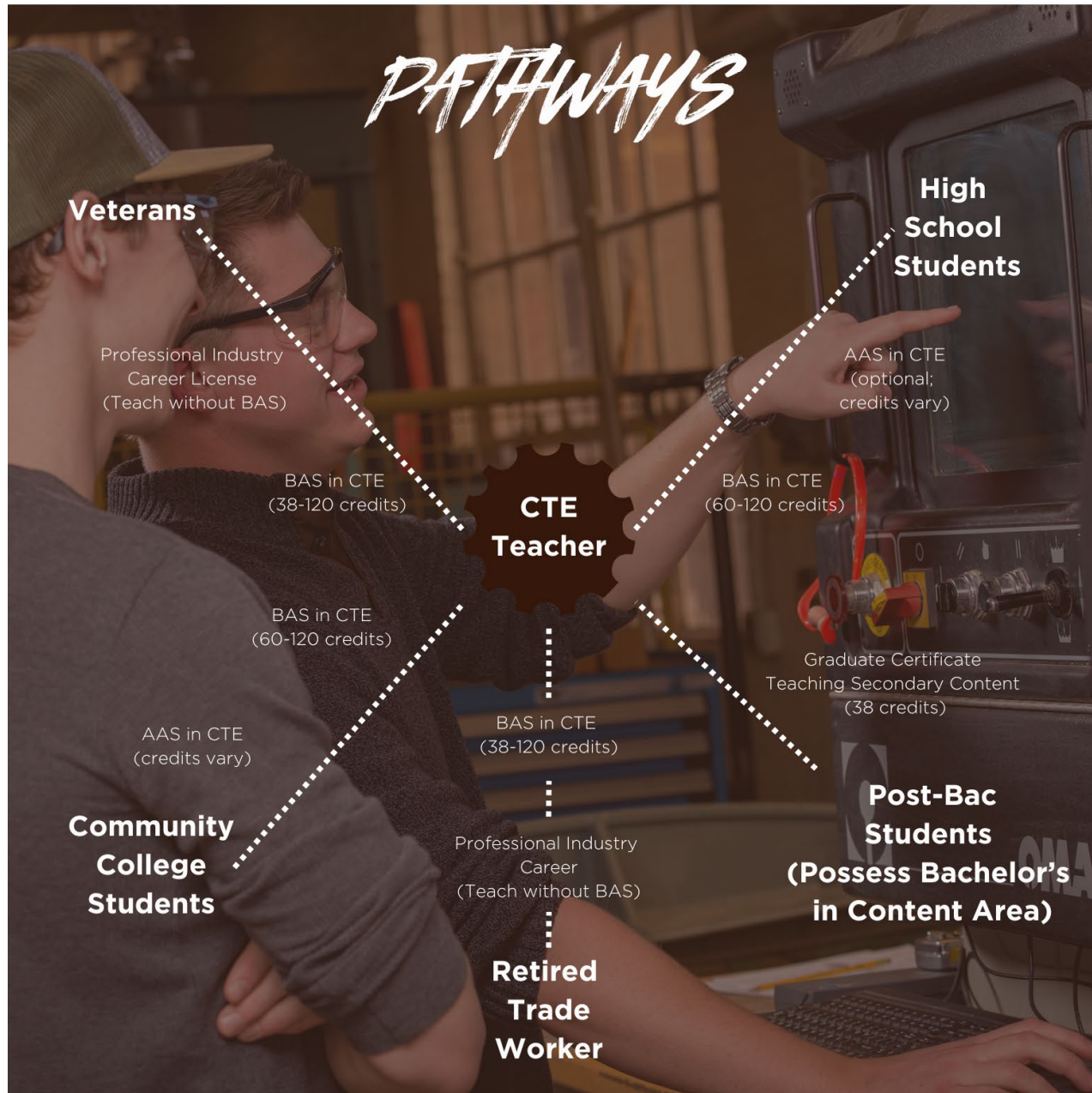
https://trib.com/news/state-regional/education/uw-college-of-education-teacher-initiatives/article_6c0775e6-6850-11ee-a58b-331daf1a5fe9.html#tracking-source=home-top-story

Appendix B:



Appendix C:

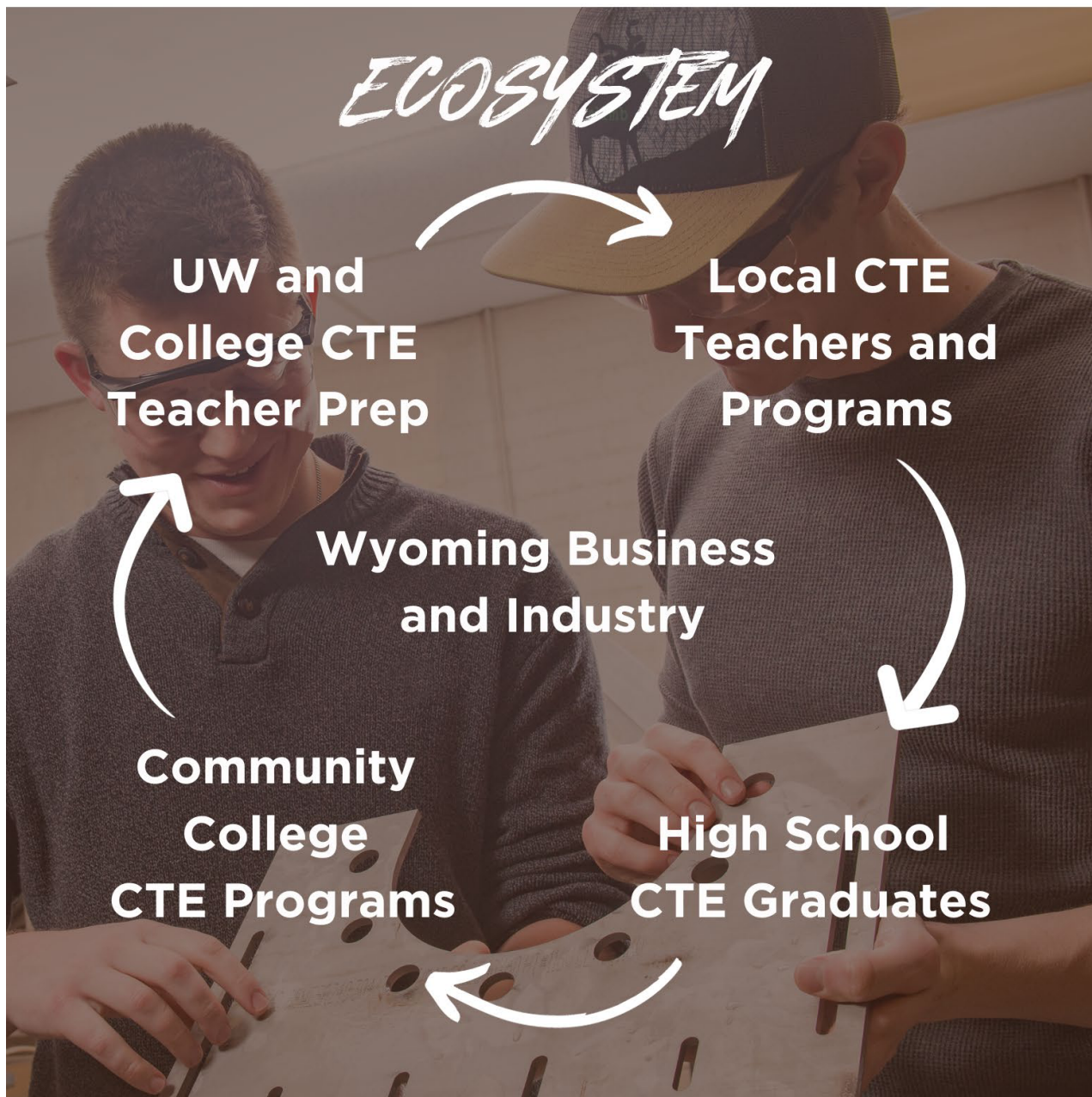
Career and Technical Education (CTE)



UW

College of
Education

Career and Technical Education (CTE)



UW

College of
Education

Career and Technical Education (CTE)

VETERANS IN DEPTH

Our Main Partners:

UWYO Veterans Services Center
Wyoming Military Department
Wyoming Veterans Commission

Key Candidate Pools:

American Legion
Veterans of Foreign Wars (VFW)
Military Order of the Purple Heart
Disabled American Veterans (DAV)
Disabled Veterans Outreach Program (DVOP)
Troops to Teachers (TTT)



UW

College of
Education



SIGN UP FOR:

EDSE 4070: Educational Trends in Career and Technical Education

COURSE INFORMATION:

- ✓ Course Delivery: Online Asynchronous (with support from local community colleges)
- ✓ Students will have local support and opportunity to engage with industry leaders
- ✓ Tuition assistance may be available (reach out to Christi Thompson for more information)
- ✓ Jan 16th, 2024 is the first day of class

AM I ELIGIBLE?

- ✓ The course is open to non-degree and degree seeking students
- ✓ No prerequisites required

WHY CHOOSE CTE TEACHING?

Those who "can" - teach career and technical education!

- ✓ Starting teachers are paid as well as many of the skilled tradespeople
- ✓ Average salary of a CTE teacher in WY is \$67,000 while the average salary of an electrician is \$62,000
- ✓ CTE teachers have a flexible calendar year, including summers off and great benefits
- ✓ CTE teaching is a high demand career with potential to grow over the next 8-10 years
- ✓ Rewarding career with direct impact on the state and local communities

*ARE YOU PASSIONATE
ABOUT TEACHING YOUR SKILL?*

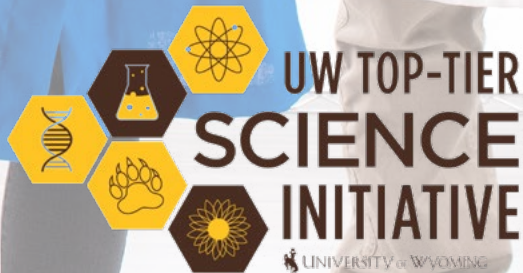
PARTNERS:



FOR MORE INFORMATION

Christi Thompson • christi.thompson@uwyo.edu
Rob Hill • robhill31@gmail.com

AGENDA ITEM TITLE: Science Initiative Annual Report and Building Update, Chitnis,
Brown, Lyford



2022-23 ANNUAL REPORT

REVOLUTIONIZING SCIENTIFIC EDUCATION AND DISCOVERY IN WYOMING

The University of Wyoming's Science Initiative enables world-class research and education that will strengthen the foundations of Wyoming's present and future economy. Through integrated, interdisciplinary science, Wyoming's current and future researchers and entrepreneurs will revolutionize areas of Wyoming's economy including mineral extraction, agriculture, tourism, resource management, and emerging technology, while also preserving Wyoming's greatest natural resources and unique biodiversity. The Science Initiative will provide UW students with a flexible, pioneering skill set, giving them the resources to invent a Wyoming future whose details cannot be fully known.

CONTENTS

- 4** WELCOME
Who We Are & Letter from the Directors
- 6** YEAR IN REVIEW
Executive Summary
- 8** RESEARCH & EDUCATIONAL FACILITIES UPDATE
Building for the Future
- 12** SI PROGRAM INTERACTIONS
Working Together Synergistically
- 14** LEARNING ACTIVELY MENTORING PROGRAM (LAMP)
Transforming Teaching at UW & Across the State
- 22** WYOMING RESEARCH SCHOLARS PROGRAM (WRSP)
Research Training & Mentoring for Undergraduate Students
- 30** SCIENCE INITIATIVE ROADSHOW
Bringing Active Learning to Wyoming K-12 Schools & Communities
- 36** FINISHING OUT PHASE I
An Historic Milestone in the Science Initiative
- 38** FINANCIAL STATEMENT
Funding Transformative Experiences

WHO WE ARE

Mark Lyford, Executive Program Director, UW Science Initiative; Senior Academic Professional, Lecturer, Botany

Greg Brown, Executive Operations Director, UW Science Initiative; Professor, Botany

Rachel Watson, Director, Learning Actively Mentoring Program; Senior Academic Professional, Lecturer, Chemistry

Jamie Crait, Director, Wyoming Research Scholars Program; Assistant Academic Professional, Lecturer, Botany

Karagh Brummond, Co-Director, Engagement and Outreach; Instructional Professor, Honors College

Erin Klauk, Co-Director, Engagement and Outreach; Assistant Lecturer, Geology & Geophysics

Jay Gatlin, Interim Director, Center for Advanced Scientific Instrumentation (CASI); Department Head and Professor, Molecular Biology

Tabatha Spencer, Executive Business Manager, UW Science Initiative

Ryan Goeken, Information Specialist, Sr., UW Science Initiative

Jay Fahlsing, Administrative Associate, UW Science Initiative

LETTER FROM THE DIRECTORS

Dear Friends of the Science Initiative,

This past year was an incredibly exciting time for the Science Initiative (SI), with the notable action of the Wyoming State Legislature to fund completion of the Science Initiative Building through a one-time appropriation of \$12.5M and to provide additional ongoing funding to finalize the Science Initiative Programs for Phase 1. With the Phase 1 resources and facilities now in place as originally envisioned by the Governor's Top-Tier Science Programs and Facilities Task Force, the Science Initiative is poised to make exciting advances to support the education, research and service missions of the University of Wyoming to best serve our state.

Raising the research profile of the core science departments at UW was a signature piece of the SI plan. Completion of the SI Building over 2023-2024 will expand research spaces, particularly for those in the physical sciences, as well as provide additional critical research support centers, notably the Model Organism Research Facility. New monies will enable the launching of several new programs to advance the research capabilities of the SI faculty – a PhD Fellows program, a competitive seed grant program, resources to maintain and upgrade shared instrumentation in the Center for Advanced Scientific Instrumentation, as well as necessary staff lines to manage and maintain the facilities in the new building. Reaching Top-Tier status in research benefits more than just our research mission, as our undergraduate Wyoming Research Scholars will work side-by-side with our faculty in answering cutting-edge interdisciplinary research questions as part of their education, and much of this research will address the needs of our state.

The SI Programs that were initiated back in 2015 will now be able to expand and create new opportunities for our students, faculty, and community members around the state. The Learning Actively Mentoring Program (LAMP) continues to inspire our Wyoming instructors in Higher Education. Of particular note, LAMP Director Rachel Watson is the lead on a multi-institutional Howard Hughes Medical Institute grant that brings \$1M to UW to develop statewide partnerships with community college STEM faculty to work towards increasing student access to and success in STEM. The Wyoming Research Scholars Program (WRSP), directed by Jamie Crait, will offer research opportunities to more students through both one-on-one mentored experiences with our faculty, as well as developing Course-Based Undergraduate Research Experiences in partnership with STEM departments. Notably, just this past year, 37 of our WRSP students presented 16 papers at conferences and were authors on 13 peer-reviewed publications. Our Roadshow and Community Engagement programs, co-directed by Karagh Brummond and Erin Klauk, continue to expand our K-12 collaborations through teacher- and curriculum-specific classroom activities, and also through an incredibly successful new effort called STEM Days. These STEM days bring a wide variety of hands-on activities to an entire school, which student groups rotate through over the course of a day. Finally, we are incredibly excited by the success of the now annual UW STEM Carnival which showcases all the amazing STEM departments, programs and facilities on the UW campus, which is supported through a partnership with the UW President's Office. Please come to the UW campus on Sept. 6, 2024 to partake in the day!

We hope you enjoy reading about the incredible work of the Science Initiative and that you are as excited about the new opportunities to come as we are!

Best Regards,
Greg Brown & Mark Lyford



Executive Directors of the UW Science Initiative

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Laramie, WY 82071

(307) 766-4415
SI@uwyo.edu
uwyo.edu/science-initiative

Facebook University of
Wyoming Science Initiative



ENGAGEMENT



The SI Roadshow brought active learning to

2,262

K-12 students during

19

outreach and inreach events in schools and other venues

The SI Roadshow facilitated K-12 teacher professional development at

2

separate training events, providing teachers with hands-on opportunities for experiencing and developing active learning curriculum



The Roadshow collaborated with the Engineering Outreach Program, Mobile Makerspace, Science Kitchen, and School of Computing to offer STEM Days at Hanna-Elk Mountain and Saratoga schools. These STEM Days include a plethora of different hands-on activities for students of all ages and expose them to a wide variety of science disciplines and applications.

LEARNING ACTIVELY MENTORING PROGRAM (LAMP)

LAMP Fellow Pam Langer was awarded the **Ellbogen Lifetime Teaching Award.**

LAMP Fellow and SI Roadshow Director Karagh Brummond was awarded the **Ellbogen Classroom Teaching Award.**

4 of 17 Professors named "Top Prof" by Mortar Board Seniors were LAMP Fellows - Kassandra Willingham, Joe Russo, Ginka Kubelka, and JJ Shinker.

LAMP-trained professors taught

3,653

students in UW active learning courses



LAMP Director Rachel Watson leads the Wyoming portion of the HHMI Inclusive Excellence 3 (IE3) team, which works to create inclusive education in STEM fields and facilitate transfer among UW, NWC, EWC, LCCC, WWCC, and Casper College. The Wyoming team manages nearly \$1 million of the HHMI IE3 grant and has established a faculty learning community at NWC, facilitated a student academic showcase at NWC, and will soon establish faculty learning communities at other WY community colleges.

WYOMING RESEARCH SCHOLARS PROGRAM (WRSP)

WRSP included 52 scholars from 9 US states and 1 other country



33

WY scholars from

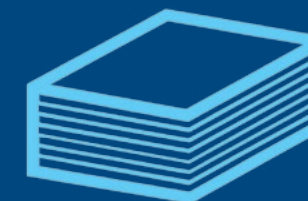
11

WY counties

WRSP scholars did

13,430

hours of research



WRSP scholars contributed to

13

articles published in peer-reviewed journals

In a final evaluation survey for graduating students, on average, WRSP scholars reported a

GREAT GAIN

in confidence in ability to do research and contribute to science

"I feel the primary strength of WRSP is the support and resources it provides that advisors often cannot. While a sore subject, monetary funding is a large boundary to devoting time to research, and WRSP helps to mediate this. As well, the research resources such as poster and presentation workshops on top of the general support from the staff is incredibly valuable."

OTHER HIGHLIGHTS

Along with the Office of the President, the SI hosted the inaugural **STEM Carnival** at UW on Friday, September 16, 2022. The event celebrated the opening of the new Science Initiative Building and featured a wide range of presentations and hands-on activities. These activities were led by 37 participating units, ranging from UW academic units, outreach programs, research laboratories, university museums, local businesses, and more. 500 K-12 students from schools in Laramie, Albany, and Carbon counties, along with many community members and UW students, attended the event.

This spring, the Wyoming legislature approved full funding for Science Initiative programs, moving us from 23% funded to 100% for the coming fiscal year. This will allow us to expand current programming and begin full programming for the PhD Scholar Program and the Faculty Innovation Grant Program. This funding will also allow the SI to fully staff the Center for Advanced Scientific Instrumentation (CASI) and the Student Collaborative Research, Outreach and Learning Laboratory (SCROLL). The Wyoming legislature also approved funding to finish all shelled-out portions of the SI Building, including SCROLL, the Model Organism Research Facility (MORF), and other supplemental research spaces on the ground floor.



18

UW students gained research experience in the fourth year of Course-based Undergraduate Research Experiences (CUREs)

RESEARCH AND EDUCATIONAL FACILITIES UPDATE

ACTIVE LEARNING CLASSROOM (ALC) IN THE SCIENCE INITIATIVE BUILDING

During the Fall 2022 and Spring 2023 semesters, the ALC has been full to the brim with students taking part in team-based, problem-based, and other active learning strategies. In total, 2,086 students were enrolled in 19 classes that met in the ALC. These courses included courses in the following programs: Chemistry, Kinesiology, Life Sciences, Microbiology, Molecular Biology, Plant Sciences, and Zoology & Physiology. The courses offered included 1 section of Agroecology, 2 sections of Animal Biology, 5 sections of General Biology, 1 section of General Chemistry I, 1 section of General Ecology, 2 sections of General Microbiology, 1 section of Genetics, 2 sections of Human Anatomy, 1 section of Integrative Physiology, 1 section of Medical Microbiology, and 1 section each of Organic Chemistry I and II. 16 of these 19 courses were 1000 or 2000 level courses, as well.

FIVE INSTRUMENTS ADDED TO CENTER FOR ADVANCED SCIENTIFIC INSTRUMENTATION (CASI)

To date, CASI has been equipped with 5 instruments:

1. Micro-CT Scanner - purchased with state grant funds through the Wyoming Innovation Partnership and the Wyoming Data Hub
2. Spinning-Disk Confocal Microscope - purchased with INBRE grant funds
3. X-Ray Diffractometer - purchased with INBRE grant funds
4. Transmission Electron Microscope (TEM) - purchased with funds through the UW Office of Research and Economic Development (ORED)
5. Focused Ion Beam Scanning Electron Microscope (FIB-SEM) - purchased with state grant funds through the Wyoming Innovation Partnership and the Wyoming Data Hub

The first 3 of these instruments were installed during the Fall 2022 semester, and the electron microscopes were installed in late spring and summer of 2023. A team of UW faculty and administrators are also working on acquiring a High-Throughput Plant Phenotyping System for use in agricultural applications. So far, researchers from multiple departments have been using installed instruments heavily to research everything from brain growth and development, multinucleate cells, cell nucleus scaling, and characterization of porous covalent organic frameworks. Dr. Todd Schoborg of Molecular Biology has also used the Micro-CT scanner in partnership with two start-up companies, Backyard Brains and Unlocked Labs, to provide neuroscience education to elementary-age students and assist in the development of probiotics for the treatment of gout and kidney stones.



ASTROPHYSICAL RESEARCH CONSORTIUM MEMBERSHIP CONTINUES

The Apache Point Observatory (APO), including 3.5 m, 2.5 m, and 1.0 m telescopes, is located in the Sacramento Mountains of New Mexico near Alamogordo. Since July of 2017, with the financial support of the Science Initiative, UW has been one of eight members of the Astrophysical Research Consortium (ARC), giving UW astronomical researchers access to the 3.5 m ARC telescope at APO for 40 half nights per year. Access to this telescope has opened up new kinds of science programs to UW faculty and students, as it has a suite of optical and infrared spectrographs with capabilities not available at UW's WIRO telescope.

PhD student Amy Cavanaugh is completing a large four-year investigation of the near-infrared spectral properties of quasars (galaxies with large black holes at the centers) using the Triplespec instrument on the 3.5 meter telescope. This will constitute the data set for her PhD thesis under Professor Michael Brotherton and will be a primary reference for the near-infrared properties of quasars and how they are related to underlying physical parameters like black hole mass and accretion rate.

PhD student Jacob McLane has been using the Triplespec instrument for 4 years to pioneer the field of measuring the masses of supermassive black holes in the centers of active galaxies using infrared light. This work will constitute a portion of his PhD thesis under Professor Michael Brotherton and is being done in collaboration with Benjamin Boizelle (APO partner member Brigham Young University), a productive team-up that has let our groups combine telescope time and share observing duties.

PhD student Evan Cook, with Prof. Chip Kobulnicky and Prof. Max Moe, has been using the Echelle Spectrograph on the 3.5 meter telescope for two years to measure the masses of contact binary stars - double star systems that orbit each other so closely (every 5-10 hours!) that their atmospheres merge into one peanut-shaped envelope. Such systems are destined to merge into one star, creating a class of explosive events called Luminous Red Novae. Evan's work tests the end stages of close binary stars and informs new theories for the evolution of close binary stars proposed by collaborator Prof. Larry Molnar at Calvin University in Michigan.

PhD student Nikhil Patten is using the APO KOSMOS spectrograph to measure the temperatures and masses of energetic stars with temperatures of 20,000 to 40,000 Kelvin. Such stars burn through their nuclear fuel in only 10 million years, ending their lives in spectacular supernova explosions so bright they are seen across the universe. Nikhil's measurements will help astronomers understand the final fate of massive stars, the type of explosion they undergo, and whether their collapsed cores will form black holes or neutron stars...material so dense that a teaspoonful would weigh millions of tons. Eight Research Experience for Undergraduates summer interns will use APO with Nikhil and Prof. Kobulnicky this summer to create the largest survey of these stars yet undertaken.

Wyoming's participation in the Apache Point Telescope Consortium over the last four years has helped produce five ongoing PhD dissertations, seven journal articles, one successful grant proposal, and dozens of poster presentations at conferences. Five to seven UW graduate and undergraduate students travel each year to Apache Point, NM in September to receive training on its instruments and operation.



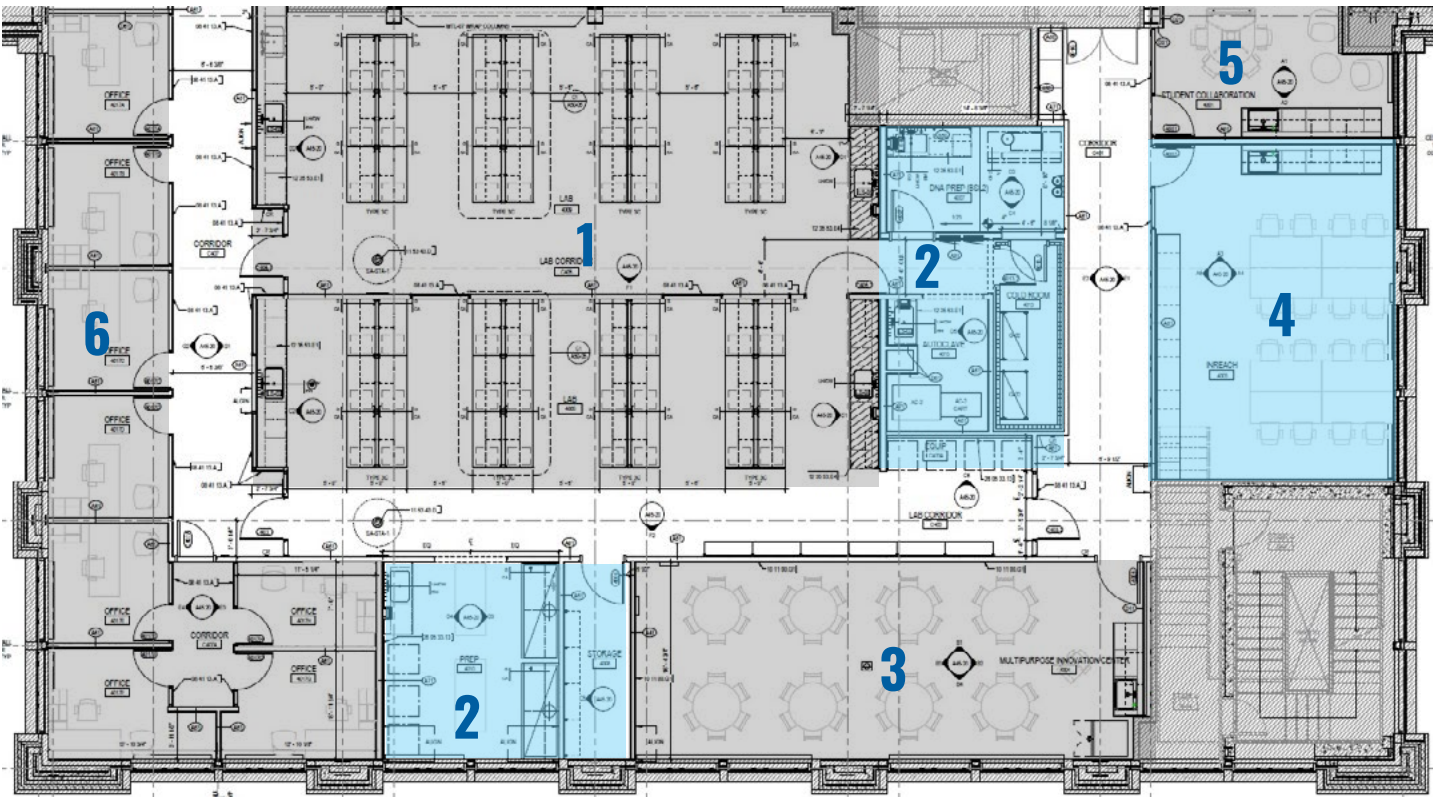
STUDENT COLLABORATIVE RESEARCH, OUTREACH, & LEARNING LABORATORY (SCROLL)

When the Science Initiative Building was initially completed in March of 2022, SCROLL, located on the 4th floor of the building, was left shelled out, but plans to finish this space are coming to fruition. SCROLL will include:

1. Interdisciplinary laboratory space and computational labs that can be used by undergraduate students to conduct course-based and individual research.
2. A 35-seat multi-purpose innovation center that will serve as a training space to instruct LAMP Fellows, LAMP Learning Assistants, and Science Initiative Roadshow student researchers in active learning techniques.
3. Space to facilitate in-reach visits from Wyoming K-12 schools.
4. A collision space where students can study, practice for presentations, and interact more informally with peers across disciplines, fostering the creation of new ideas and enhancing student life and learning outcomes.

Throughout the 2022-2023 academic year, feedback from multiple constituencies was used to refine the floorplan for SCROLL. Faculty members from multiple departments (that would likely be using the laboratory space to teach CUREs) were consulted in the organization of lab benches, storage, and prep rooms in this space. Outreach coordinators from the Science Kitchen (a cooperation between the Department of Physics and Astronomy, Wyoming NASA Space Grant, and Wyoming INBRE) gave feedback on how to structure the outreach space for diverse types of learning experiences.

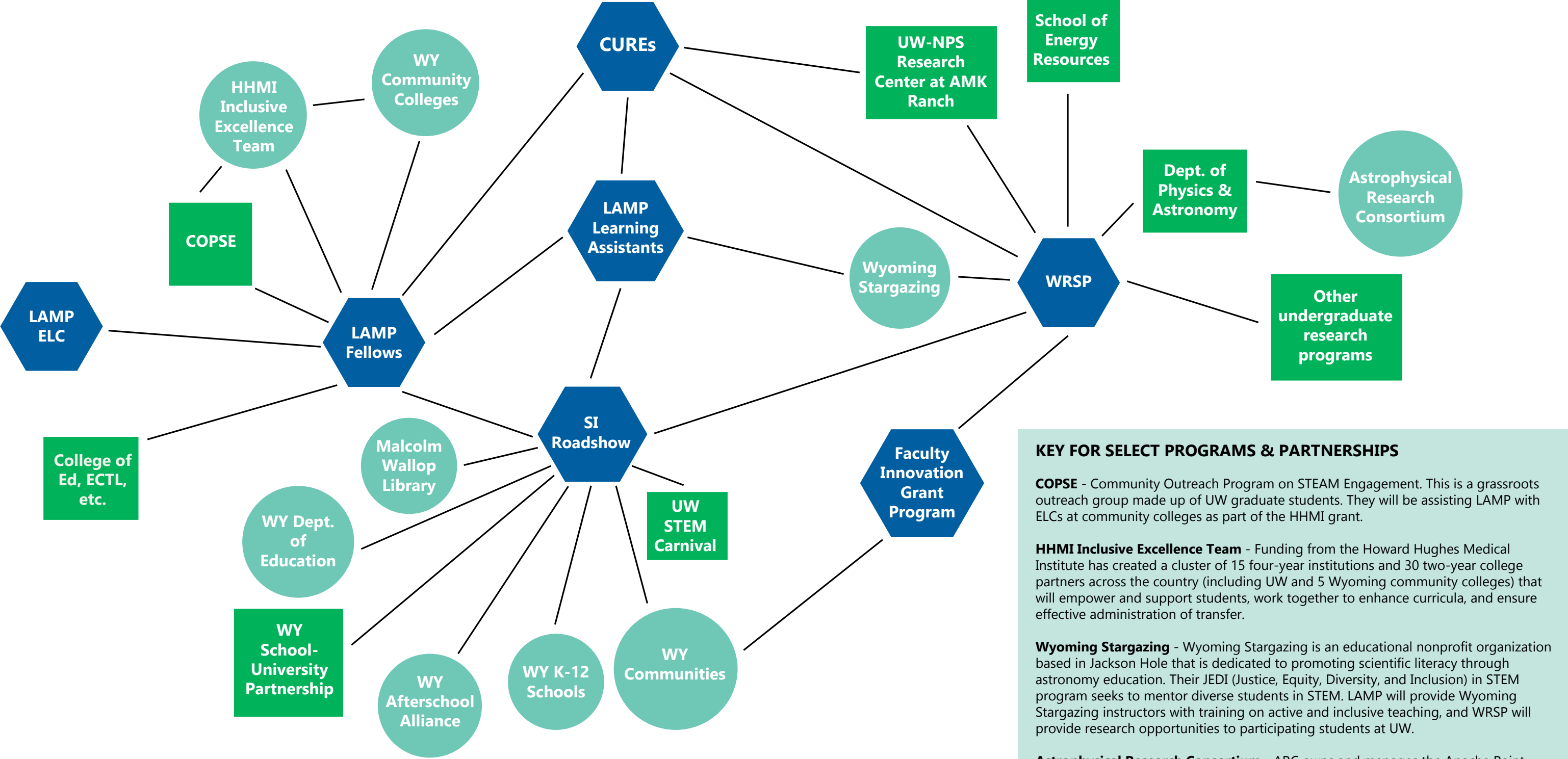
The floorplan below is the most recent, updated version of SCROLL. Construction of the space began in August of 2023 and is planned to be completed in fall of 2024.



- | | |
|---|------------------------------|
| 1. 48-seat wet laboratory | 5. Student collision space |
| 2. Prep spaces, storage spaces, and autoclave | 6. Faculty and staff offices |
| 3. Multi-purpose innovation center | |
| 4. Outreach space | |



SI PROGRAM INTERACTIONS



KEY FOR SELECT PROGRAMS & PARTNERSHIPS

COPSE - Community Outreach Program on STEAM Engagement. This is a grassroots outreach group made up of UW graduate students. They will be assisting LAMP with ELCs at community colleges as part of the HHMI grant.

HHMI Inclusive Excellence Team - Funding from the Howard Hughes Medical Institute has created a cluster of 15 four-year institutions and 30 two-year college partners across the country (including UW and 5 Wyoming community colleges) that will empower and support students, work together to enhance curricula, and ensure effective administration of transfer.

Wyoming Stargazing - Wyoming Stargazing is an educational nonprofit organization based in Jackson Hole that is dedicated to promoting scientific literacy through astronomy education. Their JEDI (Justice, Equity, Diversity, and Inclusion) in STEM program seeks to mentor diverse students in STEM. LAMP will provide Wyoming Stargazing instructors with training on active and inclusive teaching, and WRSP will provide research opportunities to participating students at UW.

Astrophysical Research Consortium - ARC owns and manages the Apache Point Observatory (APO) in Sunspot, NM. UW is a member institution of ARC, which allows UW use of three high-powered research telescopes at APO.

SI'S SIGNATURE
PROGRAMS



LEARNING ACTIVELY MENTORING PROGRAM

IMPROVING STUDENT RETENTION,
SUCCESS, AND ENGAGEMENT IN UW STEM
CLASSROOMS THROUGH COMPREHENSIVE,
SUSTAINED MENTORING AND PROFESSIONAL
DEVELOPMENT FOR FACULTY



SI'S SIGNATURE PROGRAMS

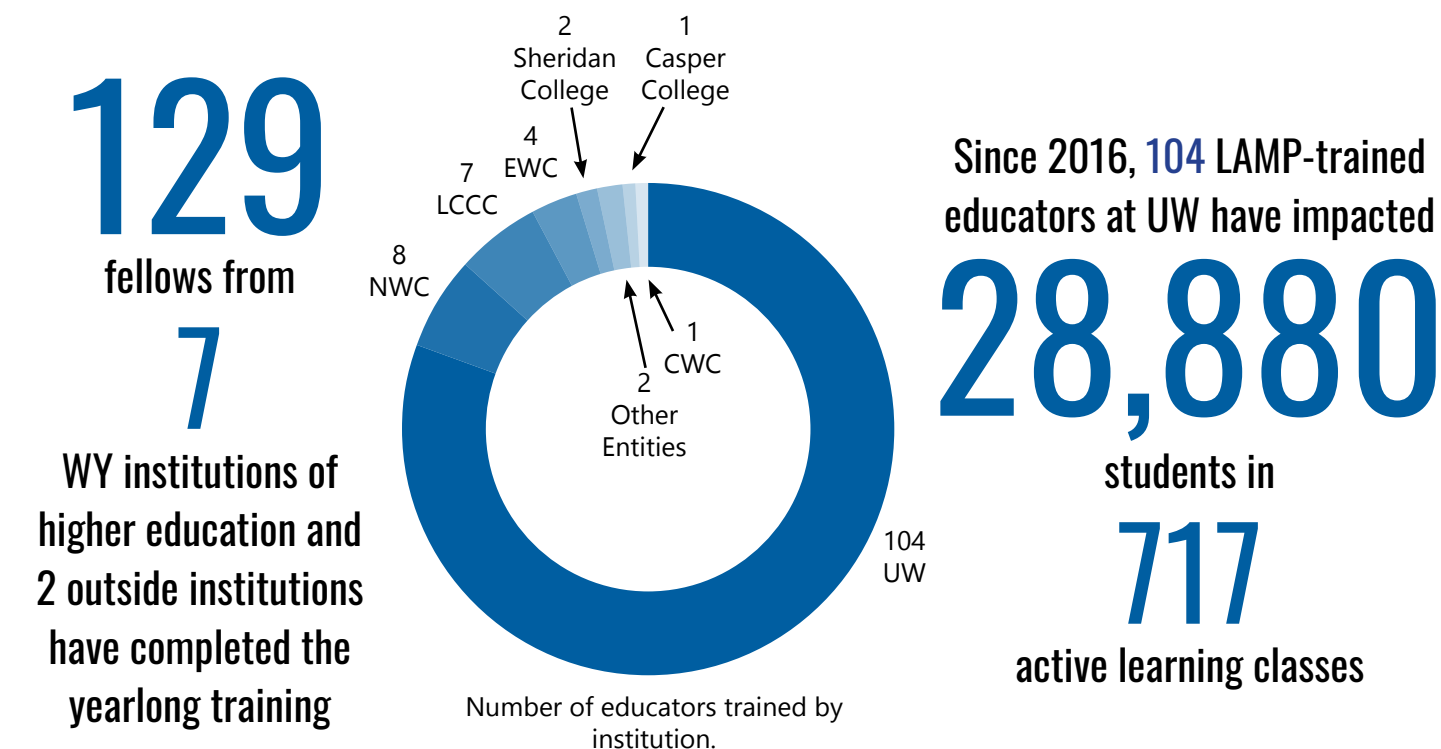
LAMP

LAMP is a comprehensive, sustained mentoring and professional development program with an emphasis on how to best adopt active learning strategies in large-scale active learning classrooms at UW and in classrooms across the state's community colleges.

- Program Goals:
- 1. Improve student retention, success, and engagement in STEM classrooms.
 - 2. Enable all new and most existing STEM teaching faculty and teaching assistants at UW to become trained in active learning strategies.
 - 3. Conduct research on active learning in STEM classrooms to investigate relationships between teaching practices and student success, literacy, engagement, and inclusion.
 - 4. Establish professional development and collaboration opportunities for science instructors across the state, including community college instructors and K-12 teachers, to improve learning experiences for all Wyoming students.

LAMP FELLOWS THROUGH TIME (2016-2023)

The LAMP Fellows Program is an immersive, year-long educational development opportunity designed to facilitate instructors' incorporation of active learning techniques into the STEM courses they teach at UW and at community colleges across the state. The program began in the 2016-2017 academic year and enrolled a new class of educators each year until 2020, when classes began enrolling every other year.



PREVIEW OF LAMP FELLOWS 2023/2024

This coming year, LAMP welcomes a new class of 40 college teachers from Northwest College, Eastern Wyoming College, Casper College, Laramie County Community College, Central Wyoming College and from UW departments of Zoology/Physiology, Molecular Biology, Botany, Physics and Astronomy, Ecosystem Science, Geospatial Sciences, Anthropology, Psychology, Petroleum Engineering, Civil and Architectural Engineering, Mechanical Engineering, Chemistry, Pharmacy, Math and Statistics, Kinesiology and Health, Nursing, Electrical Engineering and Computer Science. Educators in this yearlong LAMP class will redesign their courses to incorporate student-centered active learning practices with an emphasis on Problem-based Learning (PBL).

The 2023 LAMP learners have begun their journey with immersive asynchronous curriculum. LAMP Director Rachel Watson has designed and developed WyoLearn Modules that lead the educators through the process of evolving their teaching and learning philosophy and setting the state for their curriculum design. They are enunciating their core values - the 'why' behind their teaching, mastering the writing of clear, measurable student learning outcomes, selecting aligned assessment strategies and finally, in the tradition of backwards design, selecting the active, inclusive pedagogy that allows students to iteratively practice their mastery of learning outcomes!

Armed with their deep learning from the asynchronous modules, during the summer of 2023, LAMP learners engaged in an immersive, week-long summer institute at Camp Sacagawea outside of Casper, Wyoming. At the Summer Institute, educators became learners in problem-based learning (PBL) and team-based learning (TBL) settings. LAMP mentors and learning assistants modeled these pedagogies for educators. Their reflection-rich, experiential learning, coupled with their foundational knowledge from the asynchronous curriculum, allowed them to design instructional strategies that capitalize on all that we know about student learning and inclusion.

We thank LAMP mentors and learning assistants for their help, as they are experts in pedagogy, andragogy and in disciplines ranging from Botany to Sociology. We are also honored to welcome Vice President Zebadiah Hall who will assist us in recognizing the way in which problem-based learning is an inclusive, equitable pedagogy that invites diverse ways of knowing.





In the 2022/2023 academic year, **44** LAMP-trained educators at UW impacted

3,653

students in

118

active learning classes

Student enrollment by discipline in LAMP fellow-taught active learning classrooms, academic year 2022/2023.

DISCIPLINE	ENROLLMENT
Physical Sciences	1,369
Biological Sciences	1,210
Environment & Natural Resources	259
Engineering	223
Honors College	151
Agriculture	133
Psychology	129
Disability Studies	59
Health Sciences	50
Education	38
Social Sciences	32

Student enrollment by subject description in LAMP fellow-taught active learning classrooms, academic year 2022/2023.

SUBJECT DESCRIPTION	ENROLLMENT
Chemistry	1,148
Life Sciences	701
Zoology & Physiology	335
Honors	151
Psychology	129
Agricultural Economics	125
Physics	101
Earth Systems Science	92
Engineering Science	87
Outdoor Recreation & Tourism Management	84
Environment & Natural Resources	83
Geospatial Information Science Technology	81
Pathobiology	65
Wyoming Institute for Disabilities	59
Civil Engineering	53
Botany	43
Speech-Language Pathology	40
Molecular Biology	40
Geography	37
Gender & Women's Studies	29
Electrical Engineering	27
Architectural Engineering	27
Agricultural Education	25
Computer Science	20
Soil Sciences	13
Secondary Education	13
Microbiology	13
Pharmacy	9
Petroleum Engineering	9
Renewable Resources	8
American Studies	3
Geology	2
Social Work	1

HHMI INCLUSIVE EXCELLENCE GRANT UPDATE

The University of Wyoming is the recipient of a 6-year grant as part of the Howard Hughes Medical Institute's (HHMI) Inclusive Excellence 3 (IE3) initiative that will support continued collaborative relationship-building projects between Wyoming community colleges and UW. UW and 5 Wyoming community colleges are among 104 colleges and universities nationwide that have received grants through the initiative. The 104 colleges and universities are split into 15 different teams – UW and the 5 Wyoming community colleges make up one of these teams. The grant is being used among UW, Northwest College, Eastern Wyoming College, Western Wyoming Community College, Laramie County Community College and Casper College to develop faculty learning communities dedicated to building capacity to better include minoritized and historically marginalized students in STEM fields.

The grant (including all 104 colleges and universities) totals more than \$8 million over the 6-year grant period, with nearly \$1 million of the award managed by UW. LAMP Director Rachel Watson leads the Wyoming IE3 team and is a part of the national team focused on facilitating community-building dialogue. This award will be allocated to two separate endeavors: It will enable the Wyoming inclusive excellence learning community work, and it will be used to allow the entire national learning community to continue learning, relationship-building, and generating a greater understanding of inclusive excellence together.

In March of 2021, before the full grant was awarded, UW was awarded a small learning grant through the initiative that was used to complete an institutional ethnography at each of the 5 partnering Wyoming community colleges during the 2022-2023 academic year. This was completed by members of the Wyoming IE3 Research team (Reshmi Singh – Associate Professor of Pharmacy at UW, Rosemary McBride – Assistant Lecturer in the School of Teacher Education at UW, and Rachel Watson). The findings of this work allowed the team to understand the ways in which faculty members' feelings of support and isolation are connected to their social networks and acknowledgement by administration. They also uncovered that the faculty's focus on doing student-centered work grinds with administrative policy in some instances. This institutional ethnography is under review by the Thresholds in Education journal.

Also in 2022, the Wyoming team launched a pilot learning community at Northwest College (NWC). During the Fall 2022- Spring 2023 academic year the NWC learning community had an average of about 7 members, with some turnover. During this academic year, the learning community had weekly Zoom discussions centered on effective, inclusive pedagogy. This learning community has also led the planning for the NWC Student Academic Showcase, which took place April 28, 2023. The showcase engaged students in a professional exhibit of scholarship across the disciplines, highlighting student work involving creativity, discovery, research, innovation, and/or entrepreneurship. The event was open to the public, with special efforts being made to attract members of the local community, including K-12 students. Rachel Watson also organized a delegation of 12 staff, faculty, grad students, and administrators from UW to attend the showcase and establish connections with interested transfer students. In 2023, the graduate student outreach group COPSE decided to devote their primary focus on outreach for the IE3 work. They were heavily involved in the student showcase at NWC. They will serve as mentors, instructional assistants, learning community members, and contribute to the design and development of programs at all participating community colleges. The Wyoming IE3 team plans to establish a second community college learning community in the near future, as well.

Lastly, in the summer of 2023, a team of Wyoming representatives from UW, EWC, NWC, Casper College, WWCC, and LCCC traveled to HHMI's Jenelia Campus, outside Washington, DC, for an in-person meeting to discuss further community-building and efforts for inclusive education and transfer opportunities.

LAMP FELLOWS MAKE BIG IMPACTS AND ARE AWARDED WITH HIGH HONORS

Prior LAMP fellows continue to utilize their training to impact students at UW and across the state, gaining recognition for their transformative contributions. Pam Langer, Associate Professor of Molecular Biology at UW and a 2019-2020 LAMP fellow, was awarded the Ellbogen Lifetime Teaching Award, an award to recognize the long, distinguished, and exemplary career of a faculty member who has excelled as a teacher at UW. This award is only given to one faculty member each year and is the highest teaching award given by the University of Wyoming. Karagh Brummond, Assistant Instructional Professor in the Honors College, Director of the Science Initiative Roadshow, and 2018-2019 LAMP fellow, was awarded the Ellbogen Classroom Teaching Award. Along with these awards, 4 of the 17 professors named “Top Prof” by Mortar Board Seniors at UW were prior LAMP fellows. These professors were Kassandra Willingham (Assistant Lecturer of Molecular Biology), Joe Russo (Adjunct Professor in the School of Teacher Education), Ginka Kubelka (Associate Lecturer of Chemistry), and JJ Shinker (Professor of Geology & Geophysics). We also congratulate Deepthi Amarasuriya, a 2019-2020 LAMP fellow, 2020-2021 ELC member, and Assistant Professor of Physics at Northwest College, for being named the inaugural Endowed Chairperson in Science at NWC.

EDUCATOR’S LEARNING COMMUNITY

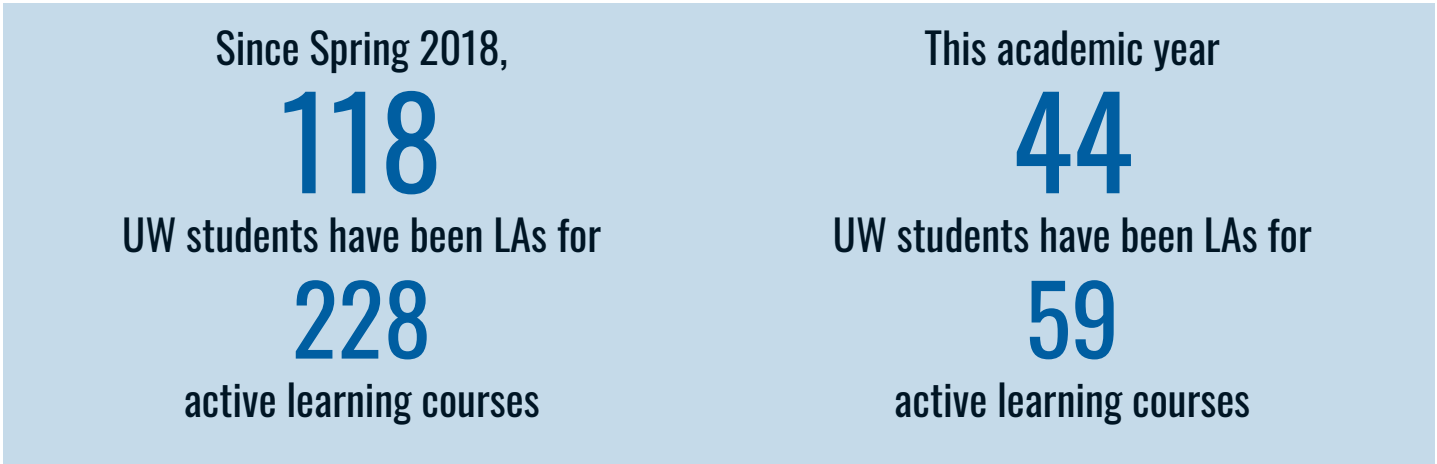
This academic year, five LAMP fellows from UW and LCCC continued their pedagogical journey with membership in the “Leaving the Light On” Educator’s Learning Community (ELC). Claire Campion, Kira Heater, Rhiannon Jakopak, Ginka Kubelka, and Diksha Shukla continued to learn together in biweekly sessions centering on discussion of two texts: “Why Students Resist Learning” by Tolman and Kremling, and “Learner-Centered Teaching” by Maryellen Weimer. Simultaneously, they have engaged in individual SoTL (Scholarship of Teaching and Learning) research, which they presented at the Original Lilly Conference for College Educators in Oxford, Ohio at Miami University, November 17-19, 2022. Claire Campion (Zoology and Physiology graduate student at UW) researched a grassroots graduate student outreach group called COPSE, assessing the changes in graduate students’ motivation for outreach over time and analyzing the way in which the social network of these graduate students changed after two years of active outreach. Kira Heater (Mathematics Instructor at LCCC) led an active learning session at the Lilly Conference that assisted educators in beginning their courses by asking an important question about “what we want our learners to be able to do after completing our courses”. Rhiannon Jakopak (Assistant Research Scientist in the Haub School at UW) used knowledge surveys that asked students completing field-based fellowships in the Haub School to self-assess their competence, which allows students to consider what they know and promote instructor preparedness and communication with the students about course content. Ginka Kubelka (UW Associate Lecturer of Chemistry) implemented a type of learning called team-based learning in her organic chemistry courses and used knowledge surveys to assess students’ changes in self-assessed competence. Diksha Shukla (UW Assistant Professor of Computer Science) implemented student learning communities in her courses about artificial intelligence and assessed their work by monitoring curiosity scores. ELC members celebrated their accomplishments at a culminating celebration on April 21, 2023.

LEARNING ASSISTANTS

The LAMP Learning Assistants Program began in Spring 2018 and provides UW students with opportunities to assist teaching in large introductory science courses taught in active learning classrooms at UW. Learning Assistants (LAs) act as peer mentors to help facilitate team-based and other types of learning. As many LAs are pursuing employment as K-12 STEM teachers, the program also integrates active learning into their training and gives them valuable teaching experience.

During the 2022-2023 academic year, LAMP Director Rachel Watson redesigned the Best Practices in Active Learning course which is the pedagogy course that all LAs take. Each week, the LAs consider pedagogical topics by modeling varying active learning modalities. They begin the semester with a nascent draft of their teaching/learning philosophy. After each day’s class, they reflect on their learning by considering how it will impact their growing philosophy. At the end of the semester, they submit an evolved philosophy.

For their second submitted assignment, LAs can choose whether they submit an addition to the Active Learning Spectrum or whether they engage in their own Scholarship of Teaching and Learning (SoTL) project. In fall of 2022 and spring of 2023, more students than ever chose to do their own SoTL. One exemplary project was completed by four Organic Chemistry LAs. They explored the impact of the type of active learning classroom on students’ success and satisfaction. The expansion of LA work into the SoTL realm has evolved the LA/Professor partnership in exciting ways. LAs are pushing professors to ask even more questions about their students’ engagement, satisfaction and mastery of learning outcomes.



SI'S SIGNATURE
PROGRAMS



WYOMING RESEARCH SCHOLARS PROGRAM

PROVIDING UNDERGRADUATE STUDENTS WITH
CUTTING-EDGE RESEARCH OPPORTUNITIES AND
FACULTY MENTORSHIP

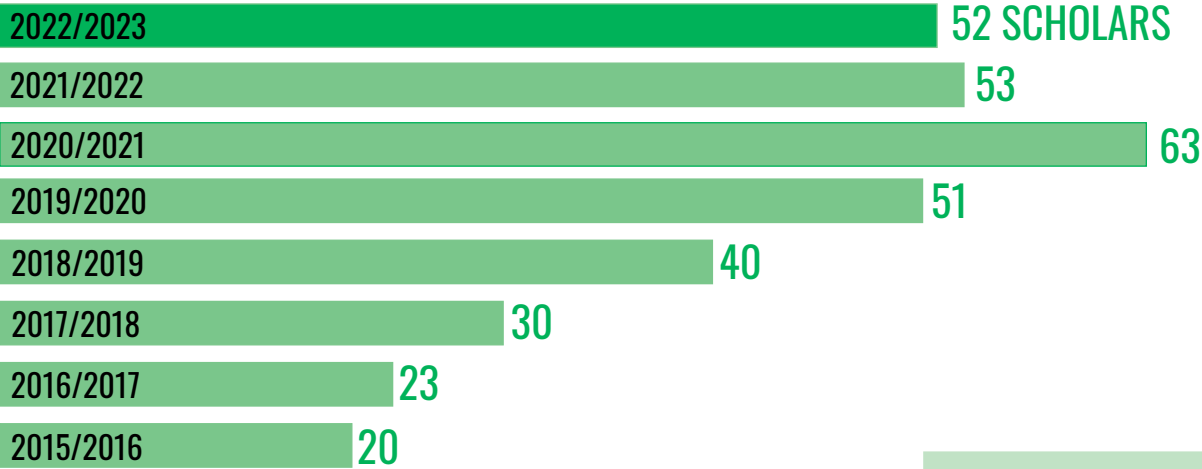




The **Wyoming Research Scholars Program (WRSP)** pairs undergraduate students with faculty mentors to participate in their own cutting-edge research project starting as early as their freshman year. Research experiences through WRSP build confidence and competence in young scholars at a formative stage in their training.

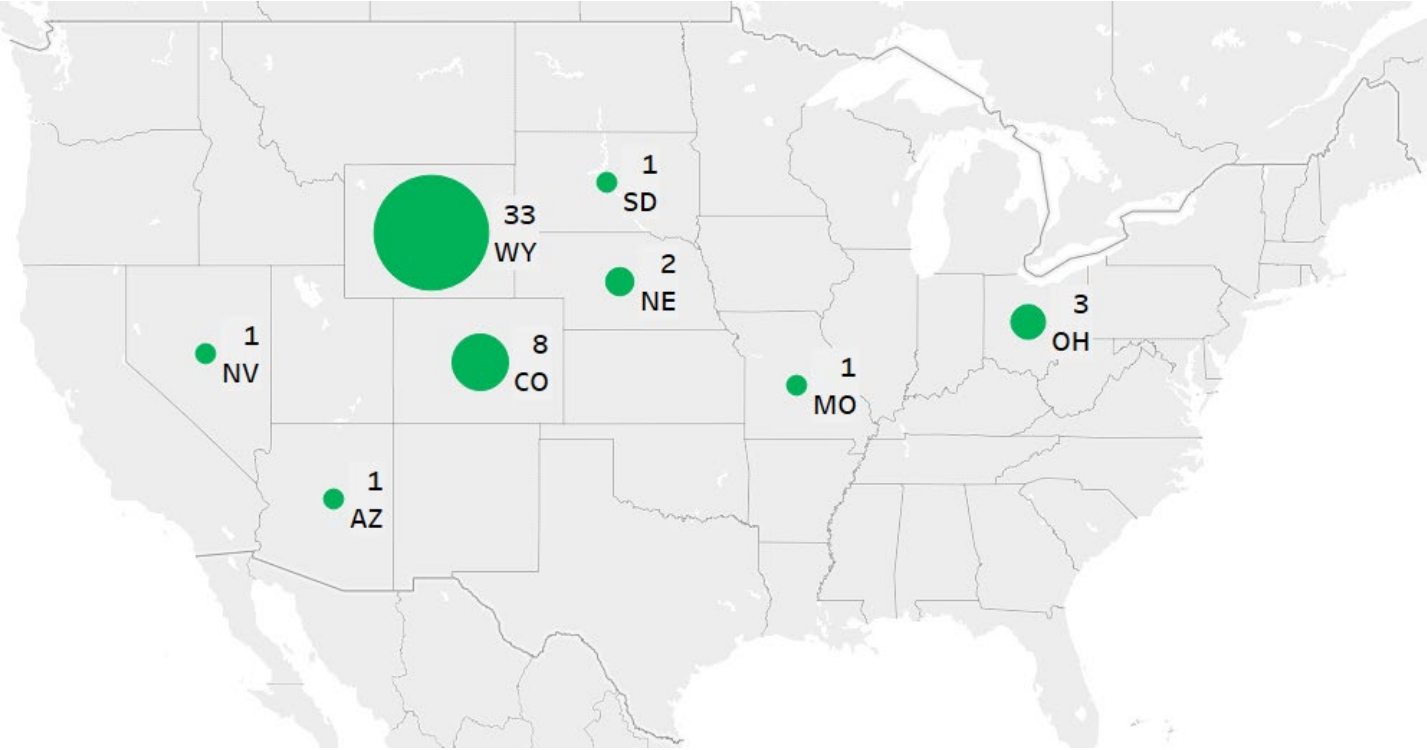
- Program Goals:
- 1. Attract high-achieving high school graduates and community college transfer students to UW.
 - 2. Retain promising students in the sciences at UW through early involvement in hands-on science research, department seminars, and public outreach events.
 - 3. Pair talented students with a faculty mentor who can model the scholarship, teaching, service, and outreach activities of a professional scientist.
 - 4. Develop transferable professional skills such as science writing, data analysis, and oral communication through participation in research and public outreach events.

WRSP SCHOLARS THROUGH TIME (2015-2023)

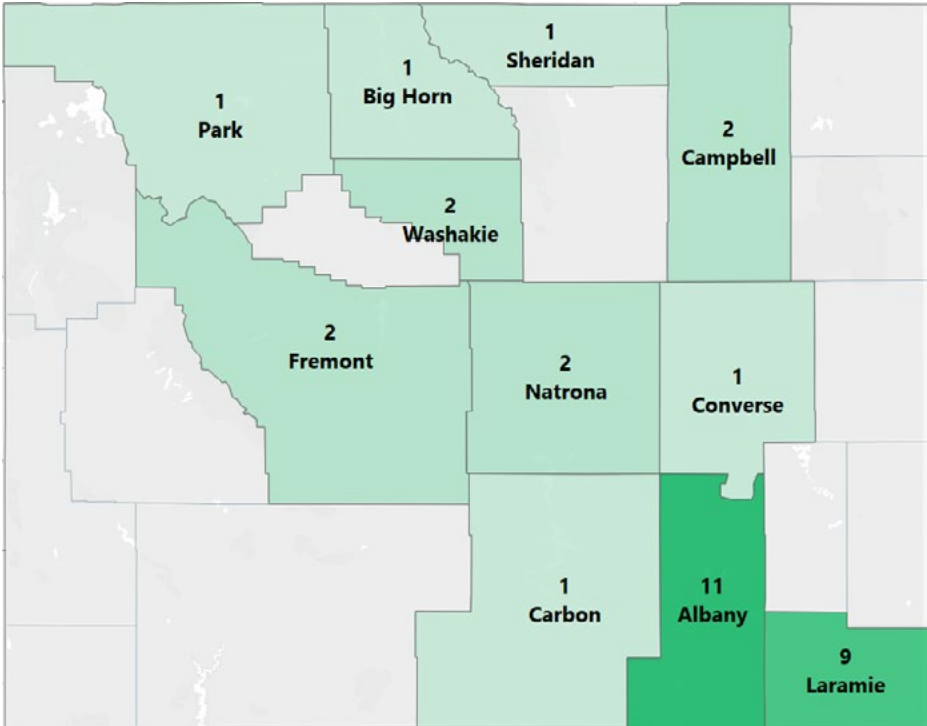


WRSP SCHOLARS 2022/2023

WRSP scholars by state, academic year 2022/2023. Additionally, 1 scholar each from Alaska & India participated in WRSP.



Below: WRSP scholars by Wyoming county, academic year 2022/2023.
Right: WRSP scholars by Wyoming hometown, academic year 2022/2023.

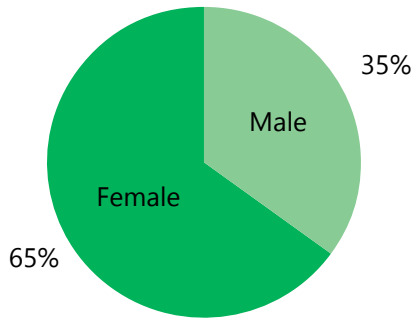


WY CITY	# OF SCHOLARS
Buford	2
Burns	1
Casper	2
Cheyenne	8
Cody	1
Cowley	1
Douglas	1
Dubois	1
Gillette	2
Lander	1
Laramie	9
Rawlins	1
Sheridan	1
Ten Sleep	1
Worland	1

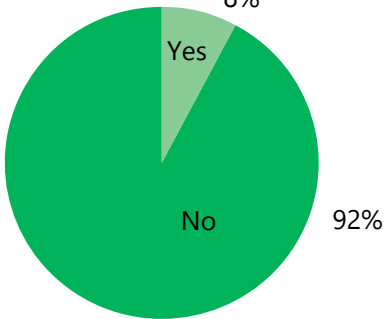


WRSP scholars did
13,430
hours of research

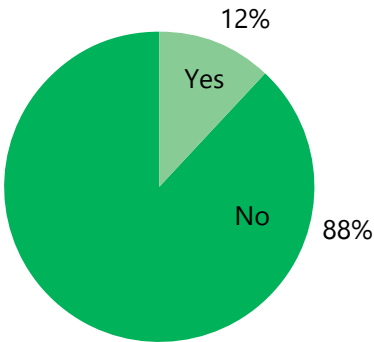
GENDER



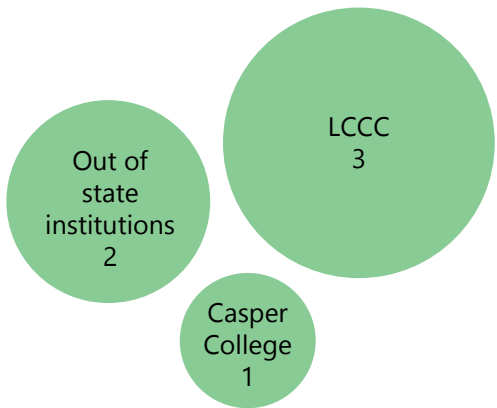
FIRST GENERATION



TRANSFER STUDENTS



OF SCHOLARS
FROM



Primary majors of WRSP scholars, academic year 2022/2023.

PRIMARY MAJOR	# OF SCHOLARS	PRIMARY MAJOR	# OF SCHOLARS
Animal & Veterinary Science	1	Geology	4
Anthropology	1	Mechanical Engineering	1
Astronomy & Astrophysics	3	Microbiology	4
Biology	1	Molecular Biology	6
Chemical Engineering	2	Physical Education Teaching	1
Chemistry	3	Physics	1
Computer Engineering	1	Physiology	2
Computer Science	4	Psychology	1
Energy Systems Engineering	1	Speech Language & Hearing Sciences	1
Environmental Systems Science	4	Wildlife & Fisheries Biology & Management	2
Geography	1	Zoology	7

WRSP SCHOLAR PUBLICATIONS AND PRESENTATIONS

The goals of WRSP include not only exposing undergraduate students to the work of a professional researcher, but giving them the opportunity and resources to actively contribute to these processes. This experience takes research from the theoretical to the practical realm and also provides students research products that greatly strengthen their prospects for further education and employment. Each semester, WRSP scholars report the products of their research, including publications, presentations, outreach, and other creative activities. This academic year, 37 scholars reported on their research activity. These data were augmented with online searches for other research products.

List of presentations and posters given at professional conferences to which WRSP scholars contributed, academic year 2022/2023. 16 presentations were given at 9 separate conferences.

PRESENTATION TITLE	MORE PRESENTATION TITLES
Comparing ungulate aging methods to inform management practices	Simultaneous transmission spectroscopy of HD 189733b from Wyoming Infrared Observatory and Red Buttes Observatory
Does pollinator visitation differ between operating and proposed wind farms?	The effect of observatory localization in pulsar timing searches for gravitational waves
Investigating giant exoplanets at the University of Wyoming: Red Buttes Observatory follow up	The influence of high evaporative conditions on peat-forming mosses in the Antarctic peninsula
Observatory position as a source of noise in pulsar timing searches for gravitational waves	The presence of monarchs and their parasites in eastern Wyoming
Observing and characterizing exoplanets at the Red Buttes Observatory using transit photometry	Using extremotolerant derived proteins and sugars to protect biologic pharmaceuticals
Optimal sampling method to detect Mycoplasma bovis in American Bison (<i>Bison bison</i>)	Using intrinsically disordered proteins to stabilize biologic pharmaceuticals
Pilot pollen study at La Prele mammoth site	Using metal-rich absorption features for identifying relative metal content across cosmic time
Relationships between tree ring width and slope position: can the source location and species of downed wood in Gordon Gulch be identified?	Using the self potential method to describe hydrothermal systems in Yellowstone National Park

List of published articles to which WRSP scholars contributed, academic year 2022/2023. 13 articles were published in 9 peer-reviewed journals.

ARTICLE TITLE	MORE ARTICLE TITLES
A six year, low-resolution multibroadband transit photometry study of HD 189733b	Source and seasonality of epizootic mycoplasmosis in free-ranging pronghorn (<i>Antilocapra americana</i>)
Behavioral traits vary with intrinsic factors and impact local survival in Song Sparrows (<i>Melospiza melodia</i>)	Stable polycyclic aromatic carbon (SPAC) formation in wildfire chars and engineered biochars
Donor–acceptor pyridinium salts for photo-induced electron-transfer-driven modification of tryptophan in peptides, proteins, and proteomes using visible light	TOI-1696 and TOI-2136: Constraining the masses of two mini-Neptunes with the Habitable-Zone Planet Finder
Dysregulated lipolysis and lipophagy in lipid droplets of macrophages from high fat diet-fed obese mice	TOI-3714 b and TOI-3629 b: Two gas giants transiting M dwarfs confirmed with the Habitable-zone Planet Finder and NEID
Monitoring AGNs with Hbeta symmetry. iii. Long-term reverberation mapping results of 15 palomar-green quasars	TOI-3757 b: A low density gas giant orbiting a solar-metallicity M dwarf
Natural and engineered mediators of desiccation tolerance stabilize Human Blood Clotting Factor VIII in a dry state	TOI-5205b: A Jupiter transiting an M dwarf near the Convective Boundary
Peptidylarginine deiminase enzymes and citrullinated proteins in female reproductive physiology and associated diseases	



WRSP SCHOLAR EXIT SURVEY

Each semester, scholars who complete their fellowship with the WRSP (most by graduating) fill out an exit survey which asks questions about learning outcomes related to their WRSP research and outreach. Also included are questions about future educational and employment plans and questions about WRSP in general. Below are some notable results from the 12 Spring 2023 graduates who completed the survey.

On average, scholars reported a **GREAT GAIN** related to their

- Comfort discussing scientific concepts with others
- Confidence in ability to do research
- Confidence in ability to contribute to science
- Problem solving in general
- Ability to explain research and scientific findings to the public

9 scholars plan to pursue graduate education and/or employment in their field of study. Scholars remarked that the program gave them confidence in their choices for the future.

Scholars reported that **STRENGTHS** of the program include

- Trainings on science communication
- Guidance for students that aren't sure what their academic and research interests are at the outset
- Paid experience so they were more able to focus on coursework and research

WRSP exposes undergraduates to graduate level research. To me, this alone makes the program worth it. So many students -- myself included -- are unsure about what path they want to take after completing their undergraduate degree. Programs like WRSP expose us to research, and can help us decide what to do next. The strong community WRSP has built of like-minded passionate students is also a major strength. If we would like to collaborate with other students, there is no short list of extremely qualified students to ask.

I feel the primary strength of WRSP is the support and resources it provides that advisors often cannot. While a sore subject, monetary funding is a large boundary to devoting time to research, and WRSP helps to mediate this. As well, the research resources such as poster and presentation workshops on top of the general support from the staff is incredibly valuable.

I thought giving my oral presentation at Undergraduate Research and Inquiry Across the Disciplines Day was super helpful. I'd never given an oral presentation before and was really nervous about how it would go. It went so well and was so validating to be able to share my research and see people be as engaged in it as I was.

COURSE-BASED UNDERGRADUATE RESEARCH EXPERIENCES (CUREs)

In the Fall of 2019, CUREs were piloted at UW by WRSP Director Jamie Crait with assistance from an interdisciplinary team of instructors. CUREs have also been developed at other universities as a way to engage students in research at a "scale that is not possible through apprenticeships in faculty research laboratories" (Rodenbusch et al., 2016)¹. Currently, UW's CURE program is being developed as a sequential, three-course series for freshman and sophomore-level students, moving students towards more autonomy in research. The first course in the sequence introduces students to research through developing skills in primary literature analysis, data analysis and visualization, and scholarly communication. The second course gives students deeper knowledge in a specific discipline and training in research methods. The third course focuses on applying skills and knowledge in the context of a research project. After a student finishes the series of courses, instructors help facilitate further research opportunities for students, such as working in faculty labs or participating in internships. Students who finish the sequence will also have the opportunity to serve as peer mentors for new students.

The SI has helped to develop a course-based undergraduate research experience (CURE) for first and second year students. In Fall 2022, students in the LIFE 1101 CURE engaged in research in beaver pond ecosystems in the Medicine Bow National Forest. These students are eligible to continue in our three-semester CURE sequence, allowing them to immerse themselves more deeply in their research projects and prepare them to engage in one-on-one mentored research through the Wyoming Research Scholars Program. The SI plans to create a future CURE that will focus on wildlife interactions at beaver ponds, and the first week of this course will take place the week before the fall semester begins at the UW-NPS Research Station in Grand Teton National Park. The SI is currently waiting on the new USP requirements to take effect before implementation.



¹Rodenbusch SE, Hernandez PR, Simmons SL, Dolan EL (2016). Early Engagement in Course-Based Research Increases Graduation Rates and Completion of Science, Engineering, and Mathematics Degrees. *CBE - Life Sciences Education*, 15(2), 1-10.

SI'S SIGNATURE
PROGRAMS

ROADSHOW

SCIENCE INITIATIVE ROADSHOW

BRINGING ACTIVE LEARNING TO
K-12 STEM CLASSROOMS ACROSS
WYOMING





Teams of undergraduate and graduate students from UW, along with UW faculty and staff, facilitate in-person and virtual learning in K-12 STEM classrooms across the state using active learning techniques through the **Science Initiative Roadshow**. The teams from UW work with K-12 teachers to integrate learning experiences into existing curricula in order to achieve assigned learning outcomes. This collaborative approach exposes Wyoming students and teachers to innovative active learning techniques and creates links between UW and schools across the state to improve STEM teaching statewide.

THE SCIENCE INITIATIVE ROADSHOW THROUGH TIME (2017-2023)

Number of K-12 students reached, 2017-2023. Students who took part in some in-reaches may not be included in the map as they came from various counties.

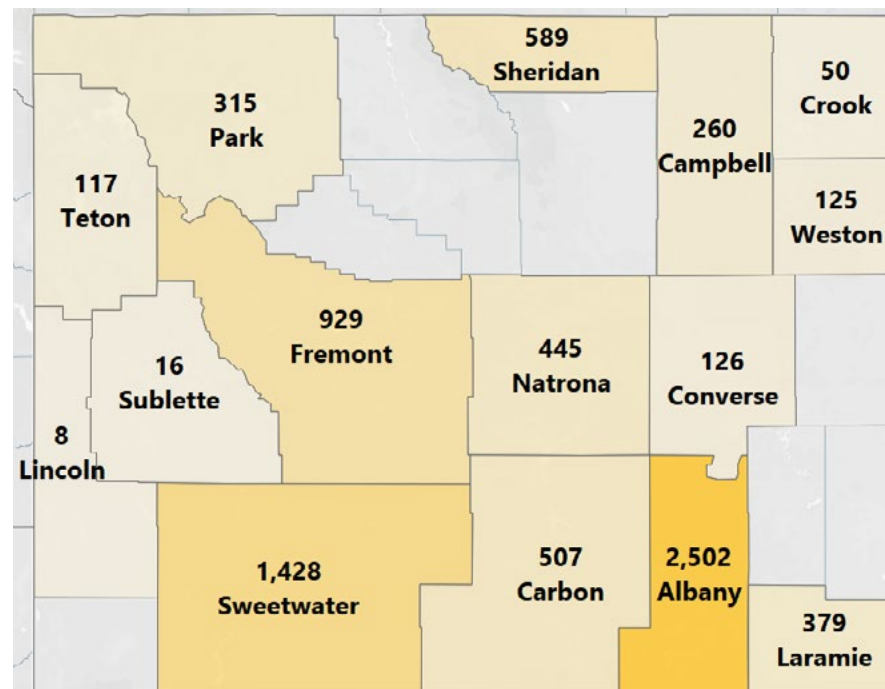
Since 2017, the Science Initiative Roadshow has brought active learning to

7,874

K-12 students from

15

Wyoming counties



84

outreach & inreach events

35+

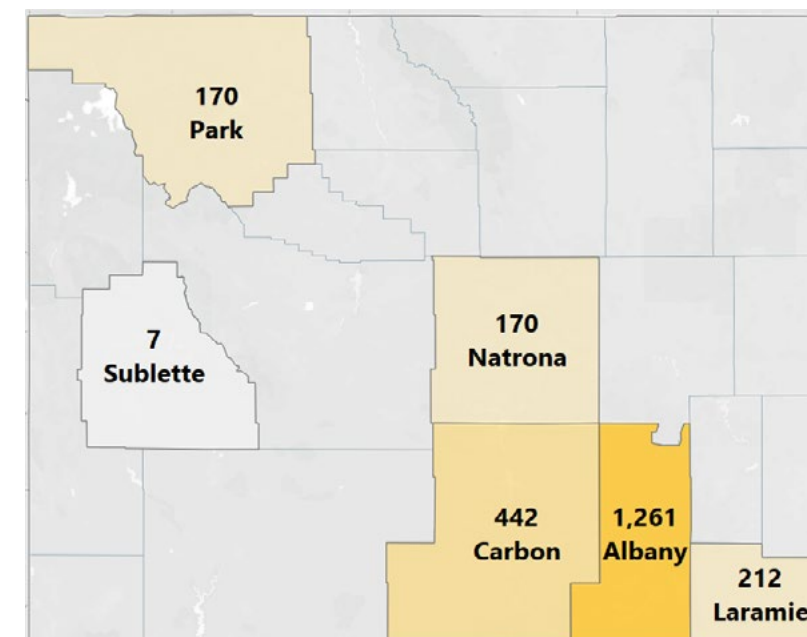
schools & afterschool programs

21

WY communities

THE SCIENCE INITIATIVE ROADSHOW 2022/2023

Number of K-12 students reached, academic year 2022/2023. Students who took part in some in-reaches may not be included in the map as they came from various counties.



In the 2022/2023 academic year, the Science Initiative Roadshow brought active learning to

2,262

K-12 students from

6

Wyoming counties

DATE	CITY	SCHOOL/PROGRAM	# OF STUDENTS
7/6/22	Cheyenne	Davis Elementary	12
9/16/22	Laramie	STEM Carnival - many schools	500
9/27 & 12/9/22, 3/28-29 & 4/14/23	Laramie	Laramie High School	716
10/18/22, 4/28/23	Cheyenne	Dildine Elementary	102
11/29-30/22	Laramie	Laramie Middle School	128
1/6/23	Cheyenne	Pioneer Park Elementary	45
1/10/23	Pinedale	Skyline Academy	7
1/11-12/23	Powell	Powell Middle School	127
1/26-27/23, 4/3-4/23	Casper	Dean Morgan Middle School	170
2/17/23	Hanna	H-E-M Junior/Senior High	160
3/22/23	Cheyenne	Cheyenne Central High School	40
4/18/23	Cody	Heart Mountain Academy	43
5/10/23	Saratoga	Saratoga Elementary School	192
5/17-19/23	Laramie	Snowy Range Academy	20



THIS YEAR IN THE ROADSHOW

This year the Science Initiative Roadshow was able to hire 8 UW students as Outreach Assistants, an increase from 5 last academic year. Having this many students dedicated to outreach has substantially helped the Roadshow, allowing us to commit to more engagement opportunities and provide more interaction in the classroom, as well as contributing to this being our busiest year yet. We were able to provide rich STEM opportunities through 20 different outreach and in-reach events throughout Wyoming and on-campus. These various events incorporated STEM topics ranging from neuroscience, physics, geology and earth sciences, astronomy, ocean acidification, ecology, and more.

Along with the Office of the President, we hosted the inaugural STEM Carnival at UW on Friday, September 16, 2022. The event celebrated the opening of the new Science Initiative Building and featured a wide range of presentations and hands-on activities. These activities were led by 37 participating units, ranging from UW academic units, outreach programs, research laboratories, university museums, local businesses, and more. 500 K-12 students from schools in Laramie, Albany, and Carbon counties, along with many community members and UW students, attended the event. Next year, on September 8th, 2023, the 2nd annual STEM Carnival will showcase the Engineering Education & Research Building (EERB).

THE ROADSHOW SUPPORTS TEACHER PROFESSIONAL DEVELOPMENT

This spring, the Science Initiative Roadshow facilitated two teacher professional development opportunities to allow K-12 teachers to explore hands-on ways of engaging with their students. On March 7, Karagh Brummond, Director of Outreach and Engagement for the Science Initiative, provided an hour-long workshop to 15 Wyoming K-12 teachers titled "Using Active Learning Techniques to Engage Students in STEM." The teachers were introduced to the Science Initiative Roadshow and the theory and data behind using active learning techniques in the curriculum the Roadshow designs for the K-12 students they visit during the academic year. The teachers were then able to experience a Roadshow activity by performing the Design an Imaginary Animal activity. After the activity there was time for conversation, feedback, and discussion about the Roadshow and the resources it offers K-12 teachers and students in the state of Wyoming. The Roadshow also participated in the Wyoming State Science Fair where we facilitated an hour-long workshop for six teachers titled, "'Seeing' Science: Exploring Technology Used to Answer Questions in STEM." This opportunity allowed the K-12 teachers to come and explore the new state-of-the-art Science Initiative Building on the UW campus to experience two of the instruments we use to answer various STEM research questions, the Micro-CT Scanner and the X-Ray Diffractometer. The Micro-CT demonstration was facilitated by Todd Schoborg (Molecular Biology) while the X-Ray Diffractometer demonstration was performed by Elliott Hulley (Chemistry).

OUTREACH FEATURE: K-12 STEM DAYS

The Science Initiative Roadshow has continued to increase collaborations with K-12 schools to offer free STEM Days for students and teachers. STEM Days are opportunities for the Roadshow and other UW STEM outreach collaborators to travel to the school where students explore a variety of STEM activities by rotating through a number of hands-on stations. The Roadshow has been collaborating with the Hanna, Elk Mountain, Medicine Bow (HEM) Jr/Sr. High School for 2 years bringing a STEM Day to their students. This year, the school invited their elementary students as well and the Roadshow offered 7 different science-based rotating stations for the

students covering topics in neuroscience, genetics, engineering, physics, electricity, ecology, and botany. In May, the Roadshow collaborated with the Engineering Outreach Program, Mobile Makerspace, Science Kitchen, and School of Computing to offer another STEM Day for the Saratoga Elementary school. The students were able explore a plethora of hands-on activities in the sciences and we look forward to coming back for more STEM Days to come. We are excited about the possibilities to expand the STEM Days to other schools and districts to bring a wider lens of science engagement to K-12 students statewide.

STEM CARNIVAL GALLERY



Exterior of Science Initiative Building with interactive STEM activity booths.



Mason Lee, Sr. Project Coordinator for the Biodiversity Institute, introduces students to snakes!



The Biodiversity Institute shows a selection of wildlife collections to K-12 students.



Kristin DiBona, Associate Professor of Chemistry and Founder and CEO of Wyonics, demonstrate making materials out of bioplastics.



Ramesh Sivanpillai, Senior Research Scientist for WyGISC, created a large Landsat puzzle of Wyoming that K-12 students put together.

FINISHING OUT PHASE I

When the Governor's UW Top-Tier Science Programs and Facilities Task Force envisioned the Science Initiative in 2014, they planned to establish and build programming and facilities in two phases which collectively would drive UW's core sciences to national and international prominence. Phase I focused on building education and research facilities to support modern teaching and research endeavors, as well as developing a series of sustained programs to assist students and faculty in teaching, research and outreach success. The new Science Initiative Building, in part, will eventually support all aspects of this mission. At present, completed portions of the building include the 204-seat active learning classroom which facilitates engaging instruction in core science courses, 3 floors of shared research laboratories which foster collaborative research, a core facility (the Center for Advanced Scientific Instrumentation) that houses and maintains key high-end scientific instruments for faculty and student use across campus, and modern rooftop greenhouses to support cutting-edge plant research. Three of the ongoing programs have been partially funded since 2015, and their progress has been reported on in this annual report; the Learning Actively Mentoring Program (LAMP), the Wyoming Research Scholars Program (WRSP), and the Science Initiative Roadshow.

The 2023 Wyoming Legislative Session marked an historic occasion for the Science Initiative, with appropriations provided to complete Phase I. A \$12.5M one-time appropriation will complete three key spaces in the building that had been shelled during initial construction. First, a large open laboratory designed to support research in the physical sciences will complement the three research floors designed primarily for biological research. Second, an animal care facility (the Model Organism Research Facility –MORF) will provide researchers with certified modern facilities to ensure research integrity. Third, the Student Collaborative Research Outreach and Learning Laboratory (SCROLL) will provide an innovative and integrated suite of spaces to support the ongoing educational programs of the SI and forge connections with other STEM education and outreach units across campus.

To grow existing and initiate new SI Education and Research Programs envisioned in Phase I, the Legislature also appropriated a biennial budget of \$9.5M. LAMP, WRSP, and the SI Roadshow will all reach full funding levels to broaden the transformational experiences for faculty and students at UW and across the state. The new programs that will begin this coming year will largely support the research mission, with funds dedicated to establishing a PhD Fellows Program, a competitive seed grant program, faculty startup augmentation, and instrument purchase and repair, collectively known as the Competitive Research Innovation Program (CRIP). Finally, these ongoing funds will allow the SI to complete faculty and staff hires to support all aspects of the education and research vision. Additional personnel in the WRSP and for SCROLL will open new research opportunities for our undergraduates in both one-on-one mentored research experiences as well as furthering the development of Course-based Undergraduate Research Experiences (CUREs) that can touch hundreds more students each year. A new hire in the SI Roadshow will strengthen our existing outreach in the K-12 arena and will allow the program to facilitate more STEM engagement within our Wyoming communities. Program funds will also support key personnel, including a Director and two technicians for CASI, managers for the greenhouse and MORF, and an accountant.

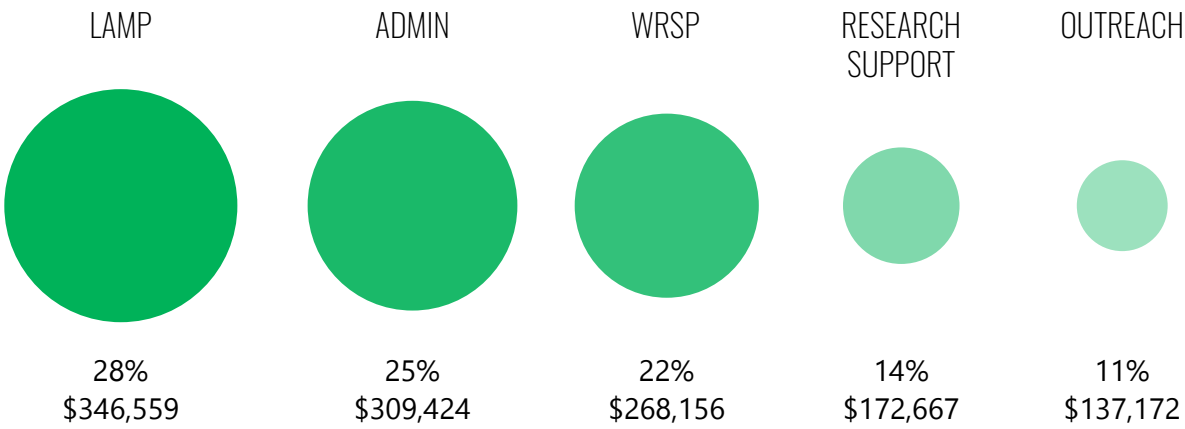


FINANCIAL STATEMENT

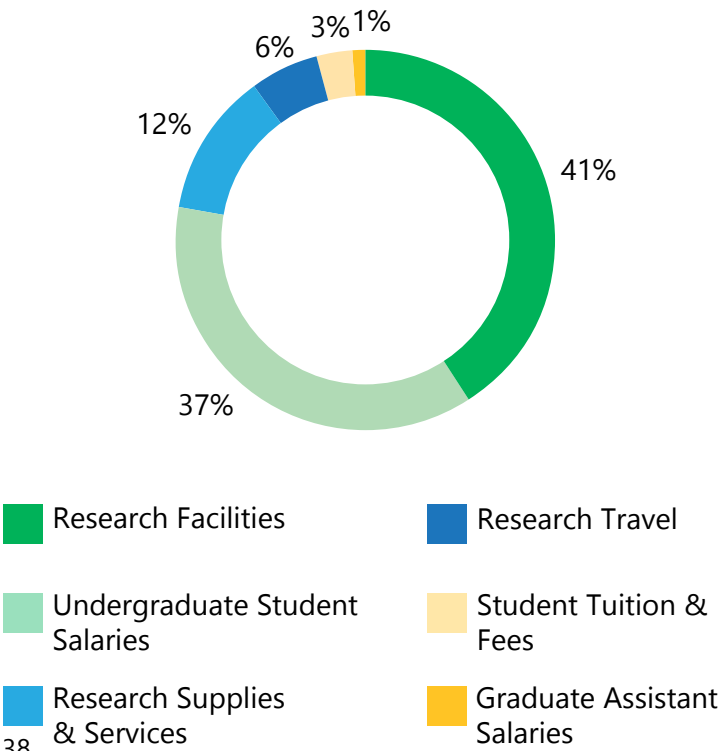
THE PAST YEAR

Our financial goals for the year included continuing to support our active learning and student research programs and increasing outreach to K-12 students and Wyoming communities, as well as supporting emerging needs of our core facilities.

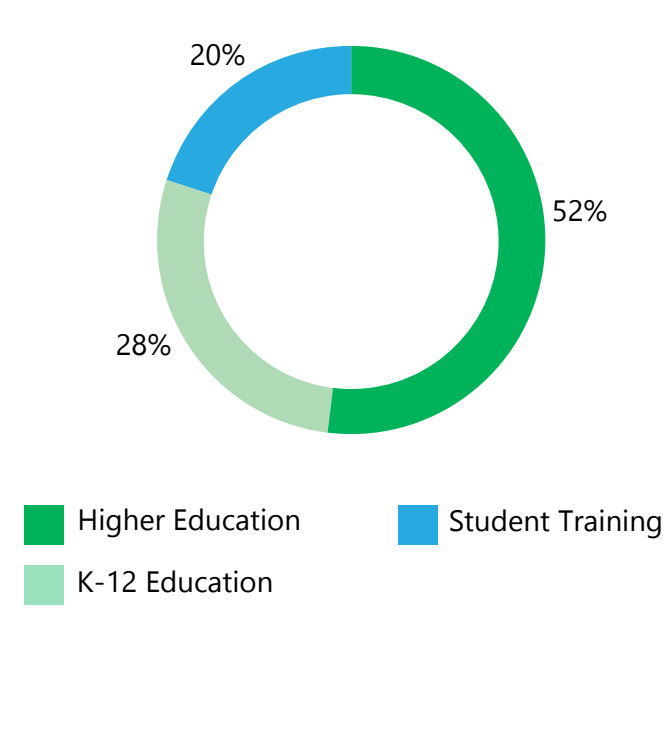
ACTUAL EXPENSES FROM STATE FUNDING (FISCAL YEAR 2022/2023)



RESEARCH EXPENSES BREAKDOWN



TEACHING EXPENSES BREAKDOWN





AGENDA ITEM TITLE: Tier I Engineering Annual Report, Wright

Tier-1 Engineering Initiative Report to University of Wyoming Board of Trustees November 2023

This brief report captures the main activities related to the Tier-1 Engineering Initiative as of November 2023. A simple snapshot in time would lack helpful context for some readers, since many current activities are a continuation or expansion of what started before 2023. Therefore, this report is organized in a succinct “past, present, future” format to provide more insight and context.

Past

- The Tier-1 Engineering Initiative, originally conceived in 2012, first had funding available in the FY2015-2016 biennium budget.
- Original plans of the Wyoming Governor’s Energy, Engineering, and STEM Integration Taskforce (often just called the Tier-1 Task Force) included ambitious goals to be aggressively funded.
 - Budget realities required that funding to be scaled back considerably, but the overall goals remain
 - For example, the original planned FY2015-2016 biennium budget for Tier-1 was \$17,164,250; less than half that was actually allocated.
 - Regardless, the Tier-1 efforts have benefitted greatly by significant state funding
- Despite a lower budget than planned over the years, the College of Engineering and Applied Science (CEAS) made considerable progress on the goals laid out by the Tier-1 Task force. Since the inception of the Tier-1 Engineering Initiative, CEAS has:
 - added faculty and staff positions in key areas that had been lacking
 - added a new academic department for a world-class petroleum engineering program
 - funded high-recognition, nationally-funded research programs across many engineering departments
 - provided seed funding for research clusters in areas beneficial to Wyoming
 - provided matching funds for new research projects
 - greatly increased Ph.D. production (e.g., a 210% increase from 2014 to 2019)
 - added in 2017: the High Bay research facility (97,683 square feet)
 - added in 2019: the Engineering Education and Research Building (102,950 square feet)
 - Includes active learning classrooms, sophisticated lab spaces, a world-class drilling simulator, a top-of-the-line Makerspace (called the Innovation Wyrkshop), and advanced machine shop
 - The Innovation Wyrkshop provides prototyping, experimentation, and fabrication capabilities for students, faculty, and the surrounding community
 - built a very strong Student Success Center from the ground up, that includes
 - professional advising for all undergraduates
 - career placement/services for all students
 - internship coordination with WY and out-of-state companies
 - K-14 outreach and state-wide programs, reaching hundreds of teachers and students across WY (e.g., ESP4T has trained over 500 K-12 teachers)
 - Recruiting, both in WY and beyond (e.g., undergraduate research scholars program)
 - marketing/communications, including active social media info feeds
 - alumni relations

Present

- Due to reorganization, CEAS became the College of Engineering and Physical Sciences (CEPS), with four new science/math departments (now 10 depts total), but all Tier-1 activities continue
 - New departments in the college have quickly integrated and expressed high levels of satisfaction with their “new home” in CEPS
 - Cross-department, interdisciplinary collaborations have increased markedly
 - Example: \$5M NSF grant awarded for Quantum Information Science and Engineering to a collaboration between the Electrical Engineering & Computer Science Department and the Physics & Astronomy Department
 - Example: in another new collaboration of Electrical Engineering & Computer Science Department and the Physics & Astronomy Department, UW was recently awarded the first phase of an Economic Development Administration (EDA) Regional Tech Hub designated “Elevate Quantum”, in which UW is part of a Colorado-based effort to up our game in Quantum Information Science and Engineering. This could lead to greatly increased funding in Phase 2.
 - Example: the Chemical & Biomedical Engineering Department is collaborating with the Chemistry Department and others to revitalize our Materials Science and Engineering research group, which represents one of the new growth areas for UW research (e.g., rare earths, lithium extraction/separation)
- Continued funding the previously added faculty and staff lines, the Student Success Center, etc. (see **Past** above)
 - Incorporated CEPS professional advising and career services for the newly added science/math departments
 - The number of participants in each K-14 outreach program has significantly increased from previous years
 - Computer Science Education Week: Number of Wyoming student participants quadrupled from last year (increasing from 224 students in 8 classrooms to 908 students in 34 classrooms)
 - Engineers Week saw a jump in participating students from 3,139 to 4,123 and a growth in participating classrooms from 132 to 222. (**62% of all Wyoming 3rd grade classrooms.**)
 - Classroom visits grew from 38 to 92.
 - Outreach activities grew to include 4-H Robotics Club from Cheyenne, Girl Scout Troup 1628, the Science Zone (Casper) summer camps, St. Anthony (Buffalo) summer STEM camps, and pre-kindergarten and kindergarten classes.
 - We were granted two Governor’s Proclamations (Engineers Week and Land Surveyors Education Week)
 - Increased funding to and participation in outreach programs for K-12 teachers
- Continued funding previously committed and new matching funds
 - Matching ~ \$800K graduate student support for DOE and private grants
 - Faculty startup fund commitments have increased substantially
- Continued to fund Engineering Initiative one-time requests:
 - In FY22, funded nearly \$900K in new shared equipment purchases, upgrades, repairs, and maintenance agreements—vital for ongoing and new research projects
 - Funded proposals across all departments in the college

- Successful in updating equipment and continuing critical maintenance agreements that were expiring
- In FY23, funded nearly \$600K in one-time requests including new shared equipment, equipment upgrades, maintenance contracts, lab infrastructure upgrades, and support for computer science and robotics outreach.
- Increased coordination/cooperation/collaboration with the School of Energy Resources (SER) on research, education, and outreach
- Increased coordination/cooperation/collaboration with the Science Initiative (SI) activities and projects
- NEW: FY2024 Tier 1 Appropriation was increased by \$5.5M for a total \$9,292,351 annual appropriation.
 - Strategically rebuilding the foundations of the college...
 - ...while investing for future growth in key areas of opportunity in which CEPS can be competitive (e.g., energy, materials, controlled environment agriculture, quantum computing, artificial intelligence applications, to name a few)
 - The increased funding will now support increased undergraduate and graduate student support, additional faculty and staff positions, increased support for marketing and student support services, additional research seed grants, increased support to the School of Computing for more joint faculty appointments in CEPS, increased support for laboratory upgrades/renovation, and new faculty startup packages.
 - New faculty areas of expertise that will aid in growth areas
 - New distinguished post-doc program to enhance ability to attract external funding in key areas of research
 - We have started eleven Tier-1 funded faculty searches this fall, in which the new faculty members will start Fall 2024, with areas targeted to both foundation and growth
 - Hiring into both new and traditionally strong areas of expertise
 - New: e.g., Controlled Environment Agriculture, Quantum Computing, Materials, Cybersecurity/Blockchain, etc.,
 - Traditionally strong: e.g., energy, electric power grid, transportation/construction, atmosphere/weather, mining/extraction engineering, etc.

Future

- Planning for the future: EPS 2030 Planning Groups, charge provided by President Seidel, final report (100+ pages) nearly complete
 - In full alignment with President Seidel's Strategic Plan for UW
 - CEPS will stay at the forefront in key areas of research and provide broad opportunities for students
 - CEPS will be the primary engine to drive UW to achieving R1 status
 - Leading to more grad students, post-docs, equipment, etc., that will be funded from external sources (federal agencies and private industry)
 - Synergistic collaborations with the evolving School of Computing will accelerate progress in many of the key growth areas, such as artificial intelligence applications that span many disciplines
- We intend to continue an annual call for proposals for funding to jump-start new research projects of interest to Wyoming, more new Engineering Initiative shared equipment purchases, upgrades, repairs, and maintenance agreements, laboratory upgrades/renovations

- Continue to fund previously added faculty and staff lines, the Student Success Center, etc., and previously committed matching funds. As opportunity arises in the future:
 - Grow more faculty depth in both new and traditionally strong areas of expertise
 - Expand into new areas of benefit to Wyoming, in which we can be competitive (e.g., Rare Earths extraction/separation, Nuclear-power-related engineering, Hydrogen economy, etc.)
- May create a new Assistant Dean position to focus on the many (and increasing) Student Success Center activities
- Intend to continue expanding K-14 Outreach across the state and beyond. May add:
 - Future City Competition
 - Introduce a Girl to Engineering Day
 - More private groups such as girl/boy scout troops, 4-H clubs, etc.
 - More involvement with the community colleges and their engineering classes
- Plan to create a dedicated teaching unit for the Engineering Science (ES) curriculum shared by multiple departments
 - Provides greatly increased continuity/consistency across sections, improves student retention and time-to-degree
- Plan to collaborate with the Science Initiative (SI) to upgrade projection equipment in the UW Planetarium
 - Current equipment is no longer supported, out-of-warranty, and spare parts are unavailable
 - Planetarium is a powerful recruiting tool to increase students' interest in STEM fields, and very popular for community outreach (over 10,000 visitors last year)
 - Helps to solidify the collaborative relationship between Tier-1 and SI
- Collaborating with the School of Energy Resources on new certificates (undergrad and grad) for nuclear energy workforce
- Working with Electrical Engineering & Computer Science Department and Physics & Astronomy Department on undergrad minors and graduate degrees (MS) in areas of Artificial Intelligence and in Quantum Information Science and Engineering

Conclusion

- We will not lose focus on the primary mission: *"...to educate, motivate, and mentor the students who are entrusted to us."*
 - All our activities, whether research, teaching, or service, can and must have a direct link to that focus.
- The Tier-1 Engineering Initiative will continue to align itself to all four original strategic goals:
 - **Excellence in Undergraduate Education,**
 - **World-Class Research and Graduate Education,**
 - **Productive Economic Development,**
 - **K-14 STEM Education.**
- We will continue to graduate engineers and scientists for another 126 years and more (first UW engineering graduate was in 1897)

AGENDA ITEM TITLE: Faculty Workload (per UW Regulation 2-9), Carman, Benham-Deal



Office of
Academic Affairs

AY 2023-24 Annual Faculty Workload Report

A Report to the Board of Trustees

November 16, 2023

“Faculty workload” refers to the various activities that faculty members at the University of Wyoming engage in to support the mission of the University, including teaching; research and/or creative activities; administration; service, outreach, and community engagement; advising; clinical, diagnostic, and professional practice; and extension.

Snapshot: Faculty Workload at R1 Universities

Workloads vary significantly by discipline at R1 universities. For example, standard teaching loads for research-active tenure-stream faculty in the basic sciences (e.g., physics, chemistry, and biology) are generally 2 courses per year. These faculty are frequently expected to maintain extramural funding in support of their research and have significant teaching responsibilities in mentoring graduate and undergraduate students as well as postdoctoral scholars. Standard teaching loads in engineering, geosciences, and mathematics are typically 3-4 classes per year. Teaching in the humanities, social sciences, arts, business, and education may be as high as 4-5 courses per year.

Many R1 institutions do not have university-level regulations or rules requiring a specific standard weighting of teaching, research, service and leadership, and other activities. Some institutions do have university policies that provide general guidance on workload distributions.

For example, the University of Colorado Board of Regents’ policy states:

Tenured and tenure-track faculty workloads may be negotiated consistent with the university's commitment to teaching, scholarly/creative work, leadership and service, and where applicable, other activities specific to a unit (e.g., clinical activity, librarianship) based on individual faculty needs (e.g., career development, tenure and promotion); conventions in particular academic disciplines; academic unit program needs; and the goals and objectives of the school/college and campus. (Source: <https://www.cu.edu/regents/policy/5>.)

The Office of Faculty Affairs at the University of Colorado provides additional guidance on differentiated workloads:

Faculty with normal assignments are expected to engage in and demonstrate merit in the areas of teaching, research, and service. In the aggregate, as a school/college or total campus, the interpretation of Regents' policy on faculty performance is that the faculty workload is approximately weighted 40% teaching, 40% research and scholarly effort, and 20% service. (Source: <https://www.colorado.edu/facultyaffairs/differentiated-workloads>)

It is not uncommon for R1 universities to give workload discretion to the department or college level, with oversight by the Chief Academic Officer (i.e., Provost) and mandate departments and colleges to have discipline specific workload policies or guidelines.

For example, at Colorado State University, individual workloads are negotiated between the faculty and department head, who has the ultimate responsibility for adjusting workload and coordinating the aggregate faculty members' effort, effort distribution, and workload assignments appropriate to the mission of the department. The dean is responsible for coordinating and evaluating the aggregate department efforts appropriately. (Source: <https://facultycouncil.colostate.edu/faculty-manual-section-e/#E.9.2>)

Similarly, the differentiated annual workload is determined at the department or college level at the University of Colorado. For example, the standard teaching weight for evaluation purposes in the College of Engineering and Applied Sciences is 40%, which includes individual mentoring in addition to traditional classes. As per their policy, "research-active faculty are encouraged to 'buy down' their teaching responsibilities to two course per academic year... Faculty who are less research active are expected to contribute to their departments with additional teaching and/or service." (Source: <https://www.colorado.edu/engineering-facultystaff/guidelines-teaching-loads-tenured-tenure-track-faculty>)

Faculty Workload Policy at the University of Wyoming

Faculty workloads are established consistent with UW Regulation 2-9 (Faculty Workload), which emphasizes the need for *a flexible workload policy that allows academic units to capitalize on each faculty member's strengths to meet the mission of the university, college, and academic unit*. Standard or baseline teaching loads for tenure-stream faculty are specified as 15 credits per academic year, which equates to 62.5% of the total workload (or 25% for two classes per year). This standard metric was implemented in the University of Wyoming's Academic Plan II (2004-2009). The remaining workload (37.5%) is allocated to other duties including research/creative activities, service, extension, etc. Adjustments to workload allocations may be made by unit heads and approved by the deans.

This report on faculty workload in AY 2023-24 will show that many faculty workloads are indeed adjusted to allow for larger allocations in research/creative activities, administration, service, and extension. However, a significant percentage of our research-active tenure-stream faculty have higher teaching loads than many R1 universities. Given the university's aspiration to seek R1 status and be competitive with leading research universities, it may be prudent to consider a revision to university policy to give workload discretion to the departments and colleges, while at the same time ensuring equity in the distribution of faculty workload within the units.

Faculty Workload – AY 2023-24

The following data sources were used in compiling this report:

1. Job descriptions for AY23-24 (Fall 2023, Spring 2024) submitted by department heads, deans, and directors by October 1, 2023. This report includes data on:
 - 395 1.0 FTE tenure-stream faculty (assistant professor, associate professor, professor)
 - 63 tenure-stream and non-tenure-track faculty with workload distributions containing administrative duties for serving as associate/assistant deans, department heads and directors.
 - 156 1.0 FTE non-tenure-track instructional faculty (i.e., lecturers, professors of practice, instructional professors)
 - 215 additional non-tenure-track faculty, including 34 clinical faculty, 89 research faculty (research scientists [87], research professors [2]), 43 extension educators, 19 librarians (17), curators (1), and faculty development professional (1).
2. Data on class sections taught, class-section enrollment, course credits taught, student-credit hours, and percent of student credit-hours by enrollment from the Banner Student Information System for Fall 2022, Spring 2023, Fall 2023.

Key Findings:

1. Almost all tenure-stream faculty have research and/or creative activities in their job description; nearly one-third of them have at least half of their workload allotted to research and/or creative activities but nearly half (46%) have less than 40% of their overall workload allocated to their scholarship.
2. More than half (57%) of tenure-stream faculty have teaching loads greater than 40% of the total workload. Nearly one-third (28%) of them teach 15 credits or more per academic year (e.g., 62.5% of the total workload). To increase research productivity (and research expenditures, which is critical to achieving R1 classification) it may be necessary to find ways to reduce teaching loads to allow for increases in total effort toward scholarly activities.
3. Most non-tenure-track instructional faculty teach 15 credits or higher; almost half of them teach 18 credits or more per year.
4. On average non-tenure-track instructional faculty, when combined with temporary lecturers, teach the most class sections and credit hours. Their classes, many of which are at the introductory level, tend to have larger enrollments per section.

Research/Creative Activity

The University of Wyoming aspires to achieve Carnegie Classification of Institutions of Higher Education as a doctoral-granting institution with very-high research activity (R1).

Job descriptions for AY 2023-24 were submitted by department heads for 395 tenure-stream faculty (i.e., Assistant Professors, Associate Professors, Professors).

Almost all tenure-stream faculty (99%, n=392) have research and/or creative activities in their job description. Excluding those faculty who are on sabbatical leave where the research load is 95-100%, nearly one-third of tenure-stream faculty (32%, n=124) have 50% or more of their overall workload

assigned to research and/or creative activities. In contrast, forty-six percent (n=177) research-active tenure-stream faculty have less than 40% of their overall workload allocated to research.

Eighty-four non-tenure track research faculty (Research Scientists, Research Professors) also have research duties assigned in their job descriptions. Nearly 73% (n=61) have research loads of 50% or higher.

Teaching

Teaching is fundamental to fulfilling our land-grant mission of providing excellent educational opportunities to students. We expect faculty to follow best practices in pedagogy and to teach classes that are consistent with their appointment and discipline.

Teaching Loads at UW

As reported in AY 2023-24 job descriptions, teaching loads vary across colleges and disciplines. However, nearly all tenure-stream faculty have some type of teaching responsibility – either through traditional group instruction (i.e., group 1 classes), individualized instruction (i.e., group 2 classes), or a combination of both types of instruction.

- Almost all (97%, n=395) tenure-stream faculty (assistant professors, associate professors, professors) have teaching assignments.
- Faculty with no teaching assignments for the academic year are either on sabbatical leave (95-100% research for the academic year) or have more than 50% of their workload tied to extension duties.
- Teaching loads vary across faculty, ranging from nearly one-third (28%, n=109) of tenure stream faculty having 62.5% of their overall workload (e.g., 15 credit hours) allocated to teaching to 42% (n=164) of them having teaching loads of 37.5% or less (e.g., 9 credit hours or less). The remaining faculty teach between 14 and 10 credit hours.
- Frequently faculty with the lowest teaching loads have the highest research loads (and often the highest expectations for grant activity). Consistent with other R1 universities, many of the lowest teaching loads/highest research loads are held by faculty in Chemistry, Molecular Biology, and Physics & Astronomy. Other UW departments with large research loads and lower teaching loads include Animal Science, Anthropology, Geology & Geophysics, School of Politics, Public Affairs, & International Studies, and Zoology & Physiology.
- Many faculty with the highest teaching loads come from disciplines like the arts, humanities, social and behavior sciences, and education.

Job descriptions were submitted for 156 instructional professors, lecturers, and professors of practice.

- Most non-tenure-track instructional faculty (80%, n=126) have teaching loads of 62.5% or higher (i.e., at least 15 credits, 2-3 load).
- Nearly half (47%, n=73) have teaching loads of 87.5% or higher (18 credits, 3-3 load).
- Of 31 instructional faculty who have teaching loads below 62.5%, twenty-one (68%) have administrative duties, thirteen of those have administrative loads of 30% or higher.

All clinical faculty have teaching loads and clinical/diagnostic/professional practice duties that involve some aspect of teaching or service. Other non-tenure-track faculty may have small teaching loads, but their workload primarily focuses on the practice of their disciplines (i.e., archivists, librarians, faculty development professional, and extension educators)

Another method for describing teaching workload is by examining: (1) Credit-Bearing Class Sections Taught – accounting for cross-listed courses by counting them only once, (2) Class Section Enrollment - Number of students taught per section, (3) Course Credits Taught – Credit-hour value for the course a faculty member teaches, (4) Student Credit Hours taught by Faculty Assignment – a measure that represent the number of students enrolled in each course section multiplied by the credit hour value assigned to each course section. These measures have remained fairly stable from Fall 2023 to Fall 2024 (see Appendix A).

Since there are more tenure-stream faculty than other categories of faculty and/or types of instructors, the highest percentage of student credit hours are taught by Assistant Professors, Associate Professors, and Professors (see Appendix B). Consistent with job description data, however, non-tenure-track instructional faculty (e.g., full-time lecturers, instructional professors, professors of practice) are instrumental in delivering the curriculum. On average, when combined with temporary lecturers, they teach the most class sections and credit hours; and their classes, many of which are at the introductory level, tend to have larger enrollments per section.

Group 1 – Group 2 Instruction

As noted above, faculty provide formal instruction through two types of classes - group and individualized. Group instruction, or Group 1 classes, include lecture, laboratory, discussion, seminar, recitation, and studio classes. Individualized instruction, or Group 2 classes, include lessons, internship, readings, clerkship, practicum, independent study, independent research, thesis research, dissertation research, and continuing registration. Faculty workload associated with Group 2 classes is often time intensive and difficult to quantify; however, unit heads were instructed to incorporate effort toward Group 2 classes into the overall teaching load.

On average, 93% of courses are taught by group instruction. For the 7% that are taught via individualized instruction, on average, 48% are independent studies and 46% are practicums, internships, or clerkships.

The tables in Appendix C show student credit hours and percentage of student credit hours by type of instruction and semester. Faculty teach the greatest number and percentage of student credit hours in fall semesters through group instruction. A considerable number of credit hours are taught through time-intensive, individualized instruction in both semesters, with more individualized learning experiences occurring in the spring semester – often a result of end-of-program projects and practicums/internships.

A visual representation of student credit hours by instruction type is provided in the figures in Appendix D, showing that most instruction is delivered by group instruction.

Classes coded as “Lecture” make up the majority of group instruction (as seen in the figure in Appendix E); however, while these classes may be delivered in the traditional ‘lecture’ format, they may also be implemented using different teaching styles including active-learning approaches. Individualized instruction is delivered using different formats, including independent studies, practicums and internships, individual lessons, clerkships, and through research experiences.

Other Duties

Although research/creative activities and teaching comprise the largest percentage of workload for faculty, other duties are essential to the service/outreach mission of the university and to the functioning of the unit, college, and university. Below is a snapshot of those duties.

- Tenure-stream faculty serving as associate deans have administrative loads ranging from 80% to 100% of total workload. The average administrative effort for academic unit heads is 45% of the total workload. All academic unit heads also teach (range of 3 to 9 credits per year) and conduct research (range from 5% to 57.5% of total workload).
- Most tenure-stream faculty (88%) do service, which is usually 10% or less of the total workload. Similarly, advising generally makes up a small portion of the overall workload (e.g., 82% of tenure-stream faculty have 5% or less of total workload allocated to this category).
- A few tenure-stream faculty (n=11) reported extension activities as part of their workload, ranging from 14% to 60% of the overall workload.
- Three-fourths (75%) of non-tenure-track instructional faculty have service responsibilities and one-third (33%) have advising duties.
- While all clinical faculty teach (ranging from 12.5% to 75% of their overall workload), 82% have some research duties and 68% have additional clinical/diagnostic/professional practice responsibilities.
- More than half (56%) of research scientists and research professors have additional service duties, nearly one-third (29%) have administrative responsibilities, and some (21%) teach classes.

Conclusion

Creative development, advancement of knowledge, and dissemination of knowledge are essential to the mission of a public, land-grant, and flagship university. Data presented in this report provide an overview of faculty workload, which reflects an aggregate of time devoted to all forms of scholarship (i.e., research and creative activities); teaching; service, including university and professional service, outreach, and community engagement; extension; administration; and diagnostic, clinical and professional practice. To be competitive in the recruitment and retention of excellent tenure-stream faculty who will be instrumental in helping the university achieve R1 classification, research loads must be consistent with research loads at peer and aspirant institutions and must allow for adequate time to devote to scholarship. A review of the university's policy on faculty workload may be in order.

Appendix A

Group Instruction Credit-Bearing Courses by Semester and Faculty Type

<i>Average Based on # of Faculty by Type</i>						
<u>Fall 2023</u>	# of Faculty	Class Sections Taught ¹	Class Section Enrollment ²	Course Credits Taught ³	Student Credit Hours ⁴ (SCH)	% of SCH
Tenure Stream	408	1.8	38.1	6.3	107.8	35.8%
Non-TT Instructional	193	2.7	75.6	8.7	223.2	35.1%
Temporary Lecturers	171	1.3	33.8	4.3	94.6	13.1%
Graduate Assistants	371	0.3	7.8	1.0	34.2	10.4%
Administrators	15	1.3	40.1	3.9	69.0	0.8%
Other	146	0.8	15.7	2.2	40.7	4.9%

<i>Average Based on # of Faculty by Type</i>						
<u>Spring 2023</u>	# of Faculty	Class Sections Taught ¹	Class Section Enrollment ²	Course Credits Taught ³	Student Credit Hours ⁴ (SCH)	% of SCH
Tenure Stream	426	1.9	35.1	6.2	97.7	36.9%
Non-TT Instructional	177	2.5	66.7	7.9	201.6	31.6%
Temporary Lecturers	202	1.3	32.3	4.1	89.6	16.1%
Graduate Assistants	372	0.3	5.1	0.7	29.3	9.7%
Administrators	11	1.2	18.5	4.4	59.9	0.6%
Other	131	1.0	16.2	2.8	44.4	5.2%

<i>Average Based on # of Faculty by Type</i>						
<u>Fall 2022</u>	# of Faculty	Class Sections Taught ¹	Class Section Enrollment ²	Course Credits Taught ³	Student Credit Hours ⁴ (SCH)	% of SCH
Tenure Stream	427	1.9	40.0	6.4	107.4	36.8%
Non-TT Instructional	177	2.5	72.0	8.4	214.8	30.5%
Temporary Lecturers	207	1.3	34.9	4.3	94.8	15.8%
Graduate Assistants	385	0.3	6.1	0.7	35.1	10.9%
Administrators	18	1.4	37.4	4.1	81.4	1.2%
Other	118	1.0	19.8	2.8	50.8	4.8%

Note: Courses with 0 course credits are excluded. Army & Air Force Courses are excluded. Only courses with numbers of 1000-6999 are included.

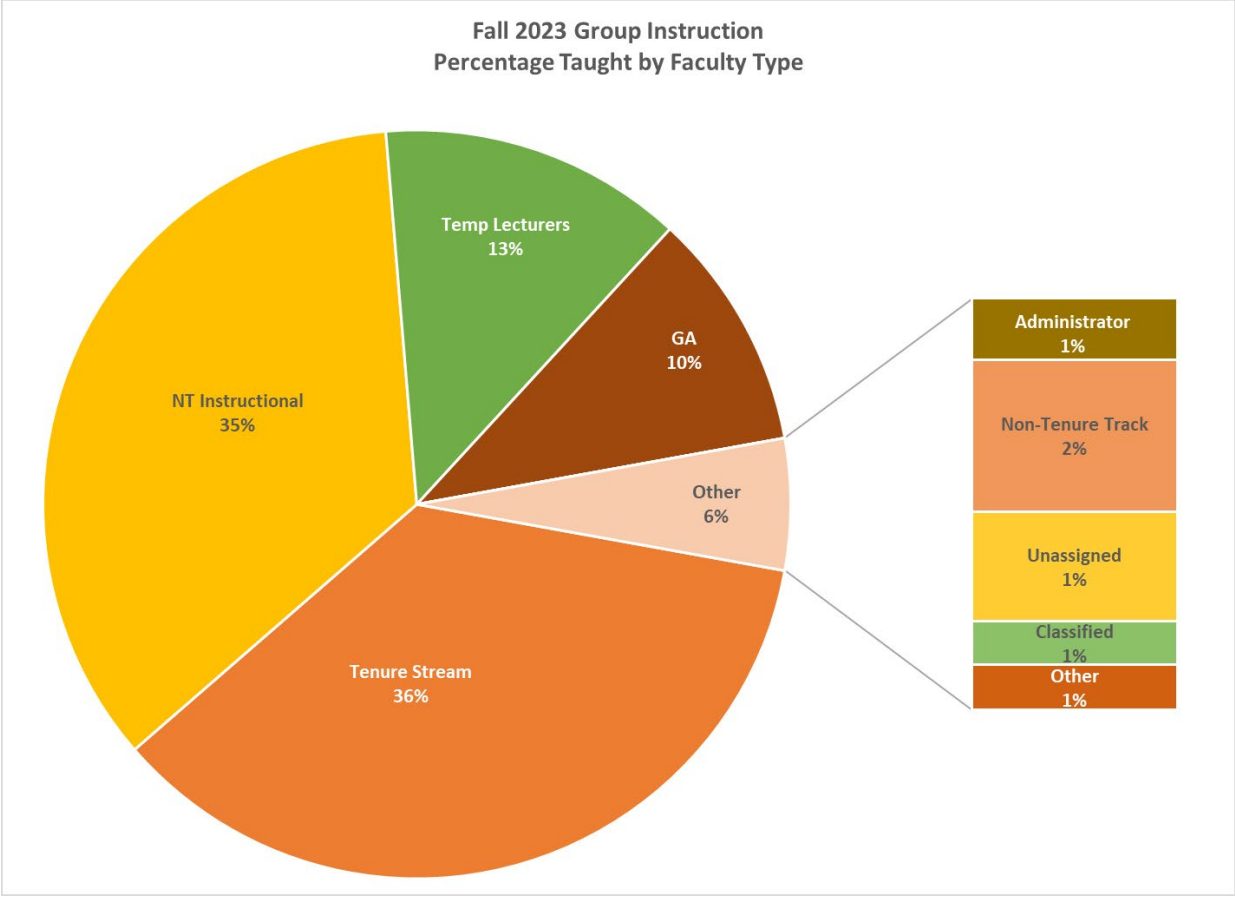
¹ For fixed credit hour classes, the courses credits times the number of students in a class.

² Number of students taught per section. lass Sections Taught - Includes only credit bearing courses. Counts cross-listed courses once.

³ Credit hour value for the course a faculty member teaches.

⁴ For fixed credit hour classes, the courses credits times the number of students in a class.

Appendix B



Appendix C

Student Credit Hours by Semester and Instruction Type

	Fall 2022	Spring 2023	Fall 2023
Group Instruction	124,460.5	112,775.0	122,882.0
Lecture	119,529.0	107,401.5	117,836.5
Seminar	2,391.0	2,977.0	2,568.0
Studio	1,877.5	1,863.5	1,816.0
Lab	396.0	457.0	399.0
Ensemble	201.0		180.5
Discussion	66.0	76.0	82.0
Individualized Instruction	7,985.5	11,372.5	8,422.5
Independent Study	4,320.0	4,904.0	4,576.0
Practicum	2,078.0	4,194.0	2,308.0
Internship	762.5	1,510.0	786.5
Lesson	423.0	399.5	434.0
Clerkship	284.0	196.0	200.0
Research	118.0	169.0	118.0
Total	132,446.0	124,147.5	131,304.5

Percentage of Student Credit Hours by Semester and Instruction Type

	Fall 2022	Spring 2023	Fall 2023
Group Instruction	94.0%	90.8%	93.6%
Lecture	96.0%	95.2%	95.9%
Seminar	1.9%	2.6%	2.1%
Studio	1.5%	1.7%	1.5%
Lab	0.3%	0.4%	0.3%
Ensemble	0.2%	0.0%	0.1%
Discussion	0.1%	0.1%	0.1%
Individualized Instruction	6.0%	9.2%	6.4%
Independent Study	54.1%	43.1%	54.3%
Practicum	26.0%	36.9%	27.4%
Internship	9.5%	13.3%	9.3%
Lesson	5.3%	3.5%	5.2%
Clerkship	3.6%	1.7%	2.4%
Research	1.5%	1.5%	1.4%
Total	100.0%	100.0%	100.0%

Appendix D

Figure 1.

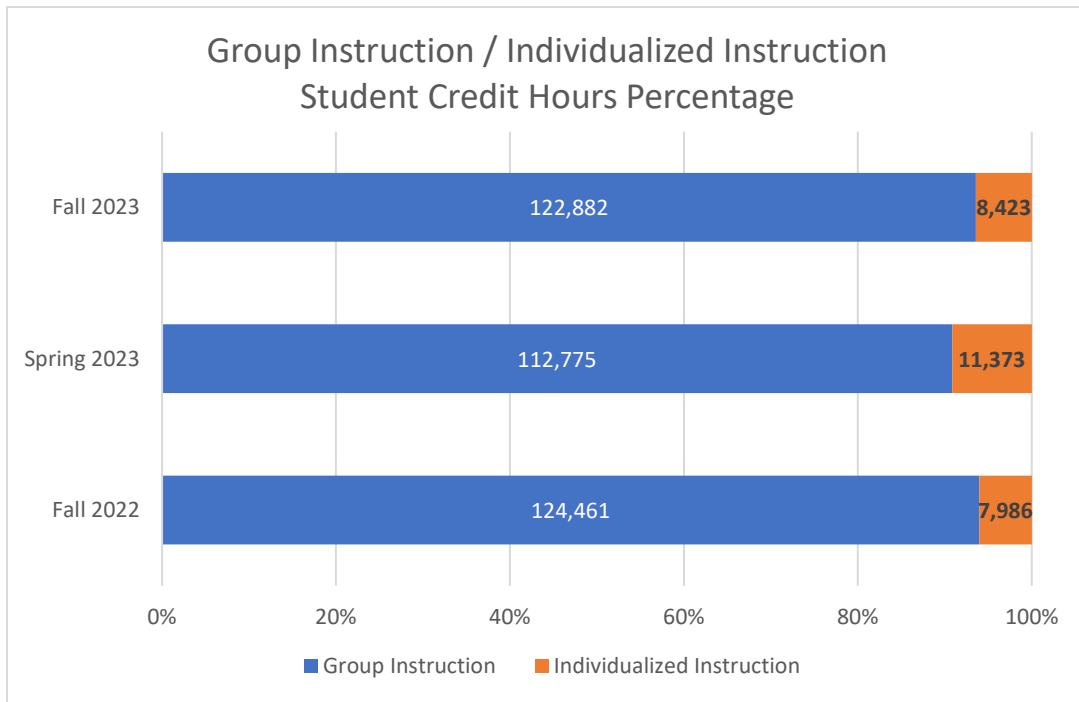
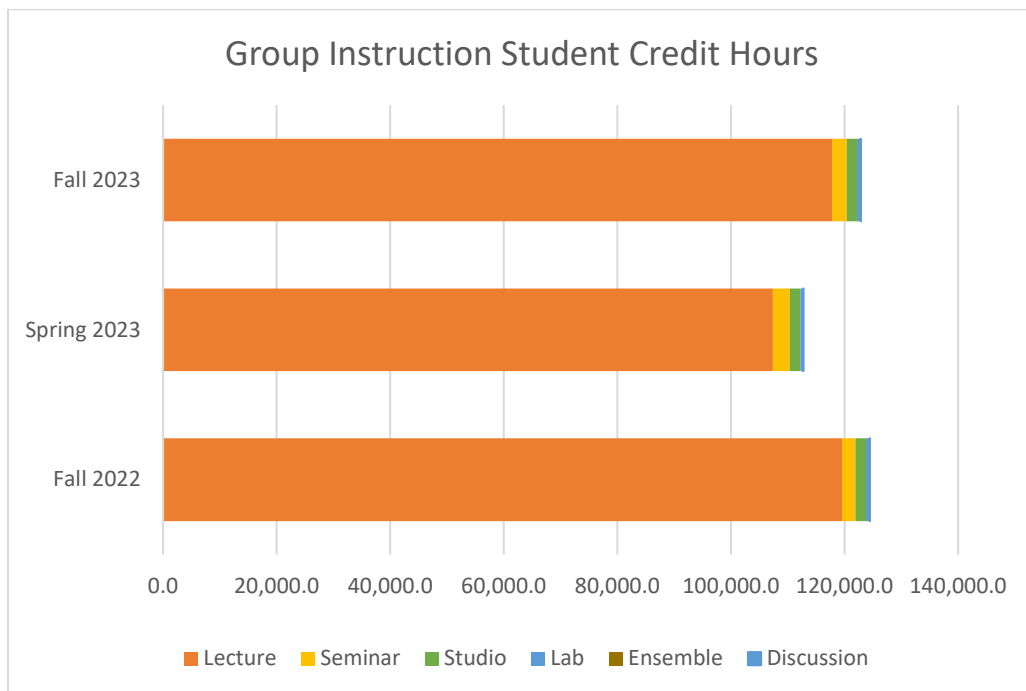
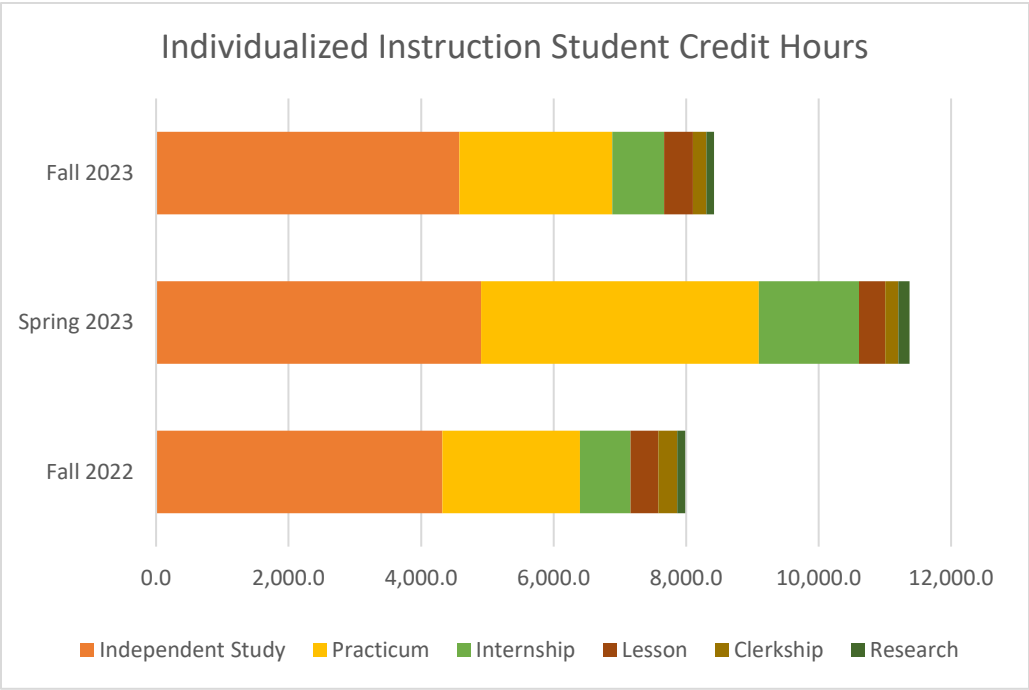


Figure 2.



Appendix E

Figure



AGENDA ITEM TITLE: Family Medicine Residency Program Annual Institutional Review Executive Summary, Warren

UNIVERSITY OF WYOMING
ANNUAL INSTITUTIONAL REVIEW SUMMARY
2022-2023

Institution: Thankfully, as the pandemic subsided over the last academic year, the University of Wyoming GME programs were able to shift energies back towards their core mission of education. Although patient care demands remain increased from pre-pandemic levels, we are able to refocus on more routine medical care. Morale has been able to recover.

Our clinical partner, the Educational Health Center of Wyoming (EHCW) maintains strong leadership, but continues to have to manage vacancies in leadership and clinic staff positions.

With the approval from the University Board of Trustees to pursue a new sponsoring institution model in December, Dr. Robitaille stepped down from the EHCW CMO role to refocus time and commitment to the GME programs and develop the consortium model. As of September, we have been able to confirm commitment from the four core consortium partners (UW, EHCW, Banner-WMC, and CRMC). A letter of intent to apply as a new sponsoring institution has been submitted. Consortium application and legal consultants have been secured and meetings have begun. In order to provide sufficient time to develop a strong and sustainable model, the goal for submission to the ACGME for as a new consortium sponsoring institution has been moved to February 2024 to make the agenda for the May 2024 Institutional Review Committee meeting. Coincidentally, the University of Wyoming Institutional ACGME Self Study is underway and due for submission in October 2023. This Self Study analysis is contributing to the development of the consortium. The GME department is in the process of recruiting a full-time Institutional Coordinator and DEI faculty member.

Cheyenne: The Cheyenne Family Medicine program received continued annual accreditation with no citations for AY22-23. Faculty ratios, for which the requirements increase in July 2023, remain at the bare minimum. Another graduate of the program has joined the faculty team in July to help the program meet this new requirement.

The program's 2023 ACGME Resident Survey results demonstrated improvement. The most significant challenge for the program is meeting the ACGME requirements for continuity clinic visits for graduating residents. This has improved over this academic year. These requirements will also be changing in July 2023, with the focus shifting to time in clinic vs. number of visits.

Casper: The Casper Family Medicine program received continued annual accreditation, but with four new citations related to the 2022 Resident Survey results. However, these citations have already been addressed and the program's 2023 ACGME Resident Survey improved dramatically. There also was a formal, anonymous complaint to the ACGME echoing the trends on the 2022 survey. The complaint was evaluated and dismissed by the ACGME.

The strain and stresses of the past several years also had an effect on recruiting this year, with only four of eight slots filled in the core Match; however the remaining 4 slots were filled in the supplemental offer and acceptance program (SOAP). There was attrition of one resident who joined the program as a replacement for a vacant 2nd year slot, but she was unable to meet the requirements for advancement into the subsequent year of training.

The faculty team is going through changes as well, with the retirement of Dr. Zach Deiss in September and the move of Dr. Cindy Works to part-time. Dr. Sharon Karnes has moved from part-time to full-time and Dr. Adam Heessel, a 2022 program graduate, joined the faculty team in August 2023 after completing an OB fellowship. This results in the program will all current faculty slots full, but overall the program remains 1-2 FTE short. Fortunately, this adversity has brought the team together and morale and culture is positive and strong.

Osteopathic Recognition Track - Casper: The Osteopathic Recognition Track received continued annual recognition and one citation for resident osteopathic scholarly activity.

Geriatric Fellowship - Casper: A Casper core program 2023 graduate is completing the Geriatric Fellowship this AY23-24. The fellowship has no citations and has continued annual ACGME accreditation.

Thermopolis Rural Training Track (RTT) – Casper/Thermopolis: The RTT program received continued annual accreditation with no citations. The RTT program graduated its first resident in June, 2023, Dr. Megan Olson, who is staying in Thermopolis to join the local faculty/provider team. The \$2.1 million 5-year PCTE-RTTPC HRSA grant has been extremely helpful and entering into its fourth year. The RTT model has gained notice and interest from across the state for possible other future RTT programs.

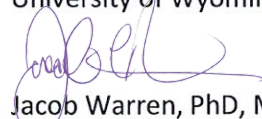
Summary: Graduate Medical Education at the University of Wyoming was greatly challenged throughout the pandemic and has begun to recover. Personnel and financial resource limitations remain challenging to the strength, growth, and sustainability of our GME programs.

Despite these challenges, the programs continue to play their role in meeting the healthcare needs of Wyoming. Currently, over 100 program graduates are practicing in the state, comprising 10% of the state's physician workforce. Six members of the 2023 graduating class are practicing in the state, resulting in >40% retention rate. Over the past year, the residents and faculty of the Casper and Cheyenne programs provided over > 36,000 patient care visits producing > \$6 million in clinical revenue.

Challenges on the horizon include an increase in medical schools and students as well as increased competition for clinical experiences (e.g., the University of Wyoming physician assistant program) that could dilute the education for all trainees. However, there is cautious optimism that the future Consortium model will help provide the stability and resources needed for excellence in Graduate Medical Education in the state.



Beth Robitaille MD
Designated Institutional Official,
Chair, Graduate Medical Education Committee
University of Wyoming



Jacob Warren, PhD, MBA
Dean, College of Health Sciences
University of Wyoming

AGENDA ITEM TITLE: Service Contract and Procurement Reports, Evans

UW Regulation 7-2 (Signature Authority) Contracts Board Report - August 16, 2023 - October 15, 2023

Contract Number	Contract Name	Contract Type	Department	Supplier	Signed Date	Agreed Amount	Signer
12106-Wildlife Air-August 2023	Agreement for Services	Services Contract	College of Agriculture & Natural Resources	Wildlife Air LLC	2023-08-25	1,500,000.00	Barbara Rasco, Dean/Professor*
12205MountainMeadowWoolLimitedApril2023	Amendment No. 1	Services Contract	College of Agriculture & Natural Resources	Mountain Meadow Wool	2023-10-03	52,364.39	Barbara Rasco, Dean/Professor
161013SEngineering823	STC for Lidar Installation on King Air B300	Services Contract	College of Engineering & Applied Science	3S Engineering, LLC	2023-08-16	120,000.00	Cameron Wright, Dean/Professor
16101StraightFlight92023	N200UW repairs	Services Contract	College of Engineering & Applied Science	Straight Flight Inc	2023-09-22	100,000.00	Cameron Wright, Dean/Professor
16203-Thermo Electron NA (SIMS)- September 2023	Service Plan Quotation	Services Contract	College of Engineering & Applied Science	Thermo Electron North America LLC	2023-09-22	63,592.75	Barbara Rasco, Dean/Professor
16204-AdNaNoTek-Aug2023	EBS_300 Dual Evaporator	Services Contract	College of Engineering & Applied Science	Adnanotek Corporation	2023-10-06	390,000.00	Cameron Wright, Dean/Professor
17011-ASCD1-Aug2023	17011-ACSD1-Aug2023	Services Contract	College of Health Sciences	Albany County School District 1	2023-09-01	64,400.00	Jacob Warren, Dean/Professor
17013ElsevierBASIC_BSNAug23	Master Contract Program Name: BASIC BSN Traditional Fall 2023 Start - Grad May 2025	Services Contract	College of Health Sciences	Elsevier, Inc.	2023-09-13	137,760.00	Robert Aylward, Vice President
17103-Medina-2020-23	Physician Independent Contractor Agreement.....Jonahan D. Medina, MD	Services Contract	College of Health Sciences	Medina, Jonathan D.	2023-08-28	70,000.00	Jacob Warren, Dean/Professor
11001_CoreLaboratories_Oct2023	11001_CoreLaboratories_Oct2023	Services Contract	Enhanced Oil Recovery Institute	Core Laboratories LP	2023-10-09	300,000.00	Holly Krutka, Executive Director
11001_ZionEnergy_April2022	11001_ZionEnergy_April2022	Services Contract	Enhanced Oil Recovery Institute	Zion Energy LLC	2023-09-12	174,000.00	Holly Krutka, Executive Director
24009_Via_InitialContract_24009	University of Wyoming Deployment Service Order	Services Contract	General University Operations	Via Transportation, Inc.	2023-08-31	86,400.00	William Mai, Vice President, Campus Operations
28350-BarcelonaSAE-Sep2023	Barcelona SAE January 2024 MBA Program	Services Contract	Global Engagement	Barcelona SAE, Inc.	2023-09-25	124,850.00	Isadora Helfgott, Vice Provost/Assoc Professor
23001-Deer Oaks-Sept2020	23001-Deer Oaks-Sept2020	Services Contract	Human Resources	Deer Oaks EAP Services, LLC	2023-10-03	180,000.00	Alexander Kean, Vice President, Budget & Finance
23001-SkillSurvey iCIMS-May 2023	iCIMS, Inc.	Services Contract	Human Resources	SkillSurvey, Inc	2023-09-11	99,990.00	Alexander Kean, Vice President, Budget & Finance
40003 Ellucian, Elevate, Sept 2023	Q00124289	Services Contract	Information Technology	Ellucian Company L.P.	2023-09-26	189,569.00	Robert Aylward, Vice President
40004 Carahsoft, Docusign, Sept 2023	40582565	Services Contract	Information Technology	Carahsoft Technology Corporation	2023-10-04	117,180.00	Robert Aylward, Vice President
40004 TimeClock Plus, July 2023	FY24 Agreement	Services Contract	Information Technology	TimeClock Plus	2023-08-17	81,459.34	Robert Aylward, Vice President
70430AllOverMediaSept2023	Advertising Contract- AllOverMedia	Services Contract	Institutional Marketing	AllOver Media, LLC	2023-09-25	70,200.00	Chad Baldwin, Assoc VP, Comm&Mkting
70430EAMADVSept2023	Contract for Advertising Services- DIA	Services Contract	Institutional Marketing	EAM Advertising LLC	2023-09-25	95,447.00	Chad Baldwin, Assoc VP, Comm&Mkting
90001 - JC Hospitality - Sept 2023	Group Sales Agreement	Services Contract	Intercollegiate Athletics	JC Hospitality	2023-09-25	75,533.76	Matthew Whisenant, Deputy Director
90001 - Teamworks - Aug 2023	Application Service Provider Agreement	Services Contract	Intercollegiate Athletics	Teamworks Innovations Inc	2023-09-19	442,850.00	Thomas Burman, Athletic Director
90018 - Renner Sports - Sept. 2023	Pricing Proposal	Services Contract	Intercollegiate Athletics	Renner Sports Surfaces	2023-10-02	75,240.00	Thomas Burman, Athletic Director
90020LandmarkEventStaffNov2020	Amendment #1: Assignment to Allied Universal Event Services	Services Contract	Intercollegiate Athletics	Landmark Event Staffing Services, Inc.	2023-09-05	1,300,000.00	Thomas Burman, Athletic Director*
90024-Vald-Sept 2023	Subscription Agreement	Services Contract	Intercollegiate Athletics	Vald Performance (USA) Pty Ltd	2023-10-02	96,000.00	Thomas Burman, Athletic Director
90201StephenFAustin122023	Game Agreement	Services Contract	Intercollegiate Athletics	Stephen F. Austin State University	2023-08-18	75,000.00	Matthew Whisenant, Deputy Director
90202WesternIllinois092029	Game Agreement	Services Contract	Intercollegiate Athletics	Board of Trustees of Western Illinois University	2023-10-02	450,000.00	Matthew Whisenant, Deputy Director
90255PlaySightMarch2019	Playsight Addendum	Services Contract	Intercollegiate Athletics	PlaySight Interactive USA Inc	2023-09-29	68,000.00	Thomas Burman, Athletic Director
100502 - Piri Technologies - September 2022	Agreement for Technical Services	Services Contract	Office of the President	Piri Technologies LLC	2023-10-02	942,000.00	Parag Chitnis, Vice President
10001-EAB-June2021	Program Order Form: Student Success Collaborative	Services Contract	Provost	EAB Global Inc	2023-09-06	92,615.00	Tami Benham-Deal, Senior Vice Provost/Professor
10101- Niche- Sept.2021	Niche	Services Contract	Provost	Niche.com, Inc.	2023-09-29	260,000.00	Tami Benham-Deal, Senior Vice Provost/Professor
10101-CollegeBoard-Aug2023	College Board	Services Contract	Provost	College Board	2023-09-06	52,000.00	Tami Benham-Deal, Senior Vice Provost/Professor
70003eCRTSubscription201802	eCRT Subscription Agreement	Services Contract	Research & Economic Development	Huron Consulting Services	2023-10-02	234,358.00	Robert Aylward, Vice President
70006_CONTRACT_CyberWyoming_Cyber Pilot Program_09.07.2023_\$245,120.00	CyberWyoming	Services Contract	Research & Economic Development	CyberWyoming Alliance	2023-09-13	245,120.00	Farrell Rapp, Director, Research Services
70013-PhotosynQ-Sep2023	Agreement for Services Between the University of Wyoming and PhotosynQ Inc	Services Contract	Research & Economic Development	Photosynq Inc	2023-10-04	705,500.00	Farrell Rapp, Director, Research Services
71004CambridgeComputerOct2023	JRB - 2023-48 VAST Storage System	Services Contract	Research & Economic Development	Cambridge Computer Services, Inc.	2023-10-12	1,999,995.78	Parag Chitnis, Vice President*
33011 - Bimbo Bakeries - 0723	UW Bread Contract	Services Contract	Residence Life Dining	Bimbo Bakeries USA, Inc.	2023-08-24	75,000.00	Alexander Kean, Vice President, Budget & Finance
33011 - Cintas	UW Cintas Agreement	Services Contract	Residence Life Dining	Cintas Corp.	2023-09-11	400,000.00	Alexander Kean, Vice President, Budget & Finance
33011 - Meadow Gold - 0723	UW Milk Contract	Services Contract	Residence Life Dining	Meadow Gold - Greeley	2023-08-25	750,000.00	Alexander Kean, Vice President, Budget & Finance
33012 - McKee Foods - 0923	Agreement with McKee Foods	Services Contract	Residence Life Dining	McKee Foods Corp	2023-10-13	50,000.00	Alexander Kean, Vice President, Budget & Finance
10501-ArmatureAdvocacy-Sep2023	ITC Armature Advocacy Services	Services Contract	School of Energy Resources	Armature Advocacy, LLC	2023-09-25	100,000.00	Holly Krutka, Executive Director
10501-CarbonMgmtStrategies-Sep2023	ITC Carbon Management Strategies Services	Services Contract	School of Energy Resources	Carbon Management Strategies LLC	2023-09-28	550,000.00	Tami Benham-Deal, Senior Vice Provost/Professor
10501-ClearStrategyPartners-Sep2023	ITC Clear Strategy Partners Services	Services Contract	School of Energy Resources	Clear Strategy Partners	2023-09-25	60,000.00	Holly Krutka, Executive Director
10501-WaypointsWyoming-Sep2023	ITC Waypoints Wyoming Services	Services Contract	School of Energy Resources	Waypoints Wyoming LLC	2023-09-26	900,000.00	Tami Benham-Deal, Senior Vice Provost/Professor
10501-WoodGroupUSA PyrolysisEngr-Dec2022	Wood Pyrolysis Engineering	Services Contract	School of Energy Resources	Wood Group USA	2023-08-16	700,813.00	Ed Seidel, President
19002-EBSCO-Aug2023	Service Agreement Between EBSCO Information Services, LLC and University of Wyoming	Services Contract	University Libraries	EBSCO Information Services	2023-09-12	800,000.00	Cassandra Kvenild, Interim Dean
26001AirInnovations	Agreement Between Owner and Contractor	Services Contract	University Operations	Air Innovations	2023-08-16	373,500.00	William Mai, Vice President, Campus Operations
26001AssetWorksIncSept2023AmendNo1SaaSAsAService	Amendment No. 1	Services Contract	University Operations	AssetWorks LLC	2023-10-03	154,115.12	Robert Aylward, Vice President
26001BoothillConstructionLLC2023SARECFencing-Lingle	Agreement Between Owner and Contractor	Services Contract	University Operations	Boothill Construction	2023-08-16	83,000.00	William Mai, Vice President, Campus Operations

26001ByArchitecturalMeansAug2023Amend9LawSchoolExpansion &Renovation	Amendment No. 9	Services Contract	University Operations	By Architectural Means, PC	2023-10-04	130,546.00	William Mai, Vice President, Campus Operations
26001GEJohnsonWyomingSept2023CONO6WestCampusEnergyPlantPhaseII	Change Order No. 6	Services Contract	University Operations	GE Johnson Construction Co	2023-10-04	1,433,037.00	William Mai, Vice President, Campus Operations**
26001PaceAnalyticalJuly2023AgreementforServicesSewerOutfallAnalyticalServices	Agreement for Services	Services Contract	University Operations	Pace Analytical Services, Inc.	2023-08-25	100,000.00	William Mai, Vice President, Campus Operations
26001alm2sAug2023Amend11UWStudentHousing	Amendment No. 11	Services Contract	University Operations	alm2s	2023-10-03	220,470.00	William Mai, Vice President, Campus Operations

*Contract was inadvertently sent to a signer other than the President. This has been fixed going forward.

**Board of Trustees approved May 2023.

UW Regulation 7-2 (Signature Authority) Procurement Board Report - August 16, 2023 - October 15, 2023

PO Date	Supplier Name	Line #	Description	Quantity	Line Unit Price	Total Line Price	Total PO Amount	Department	Last Approver	Last Approver Title	Approval Date
08/17/2023	Wipfli LLP	1	Consulting services to assist with Accreditation and Consortium Development for the Graduate Medical Education program	1	90,000.00	90,000.00	90,000.00	Medical Education Administration Division	Jenkins, Jonnie	Dir, Business Operations	08/17/2023
08/17/2023	Long Building Technologies	1	Service Agreement for HVAC PM,Service and Repairs	1	50,816.00	50,816.00		Family Medicine Residency Programs	Jenkins, Jonnie	Dir, Business Operations	08/17/2023
08/17/2023	Long Building Technologies	1	Service Agreement for HVAC PM,Service and Repairs	1	20,000.00	20,000.00	70,816.00	Family Medicine Residency Programs	Jenkins, Jonnie	Dir, Business Operations	08/17/2023
08/17/2023	Niko Sushi & Steak	1	Food & Beverage Resale provided to CJ's for future purchases	1	138,575.85	138,575.85	138,575.85	Retail Campus Dining	Webb, Eric	Assoc VP of Business Enterprises	08/17/2023
08/18/2023	Air Innovations	1	Casper FMR Clinic – boiler room renovation	1	373,500.00	373,500.00	373,500.00	Facilities Management	Selmer, Forrest	Assoc VP for Univ Operations	08/18/2023
08/20/2023	Roche Diagnostics Corporation	1	Maintenance Agreement for the period of 8/28/23 - 8/27/24	1	16,963.00	16,963.00		Family Medicine Residency Programs Casper	Jenkins, Jonnie	Dir, Business Operations	08/20/2023
08/20/2023	Roche Diagnostics Corporation	2	Lab supplies for the period of 8/28/23 - 8/27/23	1	18,669.07	18,669.07	54,301.14	Family Medicine Residency Programs Casper	Jenkins, Jonnie	Dir, Business Operations	08/20/2023
08/21/2023	3S Engineering, LLC	1	3S Engineering will obtain FAA STC certification of the Laser Based Instrument as per attached service agreement.	1	120,000.00	120,000.00	120,000.00	Atmospheric Science	Wright, Cameron	Dean/Professor	08/21/2023
08/22/2023	Paciolan, Inc.	1	Paciolan ticketing monthly fees per contract. Amount based on estimated spend of \$125,000/fiscal year.	1	125,000.00	125,000.00	125,000.00	Ticket Office	Whisenant, Matthew	Deputy Director	08/22/2023
08/22/2023	TY Cattle Company	1	Certified Weed Free Grass Hay in Round or 3 X 4 Square Bales. Bundles of Small Square Bales Premium Horse Hay	250	235.00	58,750.00		Rodeo	Freeman, Samantha	Asst AD/Budgeting & Fin Mgmt	08/22/2023
08/22/2023	TY Cattle Company	2	Freight Charge	250	16.50	4,125.00	62,875.00	Rodeo	Freeman, Samantha	Asst AD/Budgeting & Fin Mgmt	08/22/2023
08/22/2023	Boot Hill Construction	1	2023 SAREC Fencing – Lingle	1	83,000.00	83,000.00	83,000.00	Facilities Engineering	Bryant, Darcy	Deputy Director, Business Serv	08/22/2023
08/23/2023	Telonics	1	TGW-4277-4 GPS/Iridium Instrumentation with Cast-4 for coyote	14	1,860.00	26,040.00		Haub School of Environment & Natural Resources	Koprowski, John	Professor/Dean/Wyo Excellence Chair	08/22/2023
08/23/2023	Telonics	2	CR-7B collar release mechanism. Release via user command when paired with a specific GPS Iridium collar	15	380.00	5,700.00		Haub School of Environment & Natural Resources	Koprowski, John	Professor/Dean/Wyo Excellence Chair	08/22/2023
08/23/2023	Telonics	5	Freight	1	147.00	147.00		Haub School of Environment & Natural Resources	Koprowski, John	Professor/Dean/Wyo Excellence Chair	08/22/2023
08/23/2023	Telonics	4	CR-6 collar release mechanism	15	380.00	5,700.00		Haub School of Environment & Natural Resources	Koprowski, John	Professor/Dean/Wyo Excellence Chair	08/22/2023
08/23/2023	Telonics	3	TGW-4177-4 GPS/Iridium instrumentation for red fox	15	1,860.00	27,900.00	80,733.00	Haub School of Environment & Natural Resources	Koprowski, John	Professor/Dean/Wyo Excellence Chair	08/22/2023
08/24/2023	Meshnet Licensing Inc tm Suitable	1	Meshnet annual fee	1	50,000.00	50,000.00	50,000.00	Provosts Office	Stark, Stephanie	Dir, Business Operations	08/24/2023
08/24/2023	Regional West Medical Center	1	FY24 lab services, per existing contract. Contract renewal is in process, okay to continuing paying bills per legal office, cannot obtain bids as no other lab provides these services here	1	55,000.00	55,000.00	55,000.00	Student Health Services	Jaeger, Marjorie	Dir, Business Operations	08/23/2023
08/24/2023	Ex Libris (USA) Inc.	1	Annual subscription to Alma, Leganto, Primo, and bX Recomender ILS/Discovery systems less credits for the unused Intota and Sierra systems payments	1	57,427.70	57,427.70		Libraries Administrative Office	Kvenild, Cassandra	Interim Dean	08/24/2023
08/24/2023	Ex Libris (USA) Inc.	1	Annual subscription to Alma, Leganto, Primo, and bX Recomender ILS/Discovery systems less credits for the unused Intota and Sierra systems payments	1	57,427.70	57,427.70	114,855.40	Libraries Resource Discovery & Management	Kvenild, Cassandra	Interim Dean	08/24/2023
08/24/2023	Bruker Scientific, LLC	1	1890101 Sales Configuration-MBT sirius RUO. Includes all specifications and accessories outlined in quote attached.	1	275,133.00	275,133.00	275,133.00	Animal Science	Rasco, Barbara	Dean/Professor	08/24/2023
08/30/2023	TimeClock Plus	1	TimeClock Plus Professional Annual Clockable Employee License 07/11/2023-07/10/2024	1	81,459.34	81,459.34	81,459.34	Enterprise Infrastructure	Christensen, Margaux	Exec Administrator, IT Business Services	08/30/2023
08/31/2023	MEJDI Tours	1	Education Abroad: Travel SERVICES for faculty-led study abroad program with Dr. Moore-Israel & Palestinian Territories 1/1/24-1/12/24 Cost per participant: \$3,775 x 15=\$52,850* *amount subject to change with total student participation	1	52,850.00	52,850.00	52,850.00	Education Abroad	Frank, Cheri	Assistant Director, Business Operations	08/31/2023
08/31/2023	@XI COMPUTER CORPORATION	1	64LT Server; Quote #464276_R	0.46	53,869.21	24,779.84		Engineering & Physical Sciences Deans Office	Barber, Megan	Dir, Business Operations	08/31/2023
08/31/2023	@XI COMPUTER CORPORATION	1	64LT Server; Quote #464276_R	0.07	53,869.21	3,770.84		VP for Research & Economic Development Office	Barber, Megan	Dir, Business Operations	08/31/2023
08/31/2023	@XI COMPUTER CORPORATION	1	64LT Server; Quote #464276_R	0.4	53,869.21	21,547.68		NWSC Innovation Center	Barber, Megan	Dir, Business Operations	08/31/2023
08/31/2023	@XI COMPUTER CORPORATION	1	64LT Server; Quote #464276_R	0.07	53,869.21	3,770.84	53,869.21	Engineering & Physical Sciences Deans Office	Barber, Megan	Dir, Business Operations	08/31/2023
09/01/2023	Ellie LLC	2	Shipping per quote 1609	1	550.00	550.00		Wyoming State Veterinary Laboratory	Boyles, Victoria	Dir, Business Operations	09/01/2023
09/01/2023	Ellie LLC	1	Brucella FPA 1000 Tests per quote 1609	100	880.00	88,000.00	88,550.00	Wyoming State Veterinary Laboratory	Boyles, Victoria	Dir, Business Operations	09/01/2023
09/01/2023	Wildlife Air LLC	1	1004942	1	60,000.00	60,000.00		Ecosystem Science & Management	Rasco, Barbara	Dean/Professor	09/01/2023
09/01/2023	Wildlife Air LLC	2	1005704	1	11,136.00	11,136.00		Ecosystem Science & Management	Rasco, Barbara	Dean/Professor	09/01/2023
09/01/2023	Wildlife Air LLC	3	240015A0001	1	137,500.00	137,500.00	208,636.00	Ecosystem Science & Management	Rasco, Barbara	Dean/Professor	09/01/2023
09/05/2023	Honorlock Inc	1	Honorlock distance education secured testing program.	1	135,000.00	135,000.00	135,000.00	Office of Online & Continuing Education	Benham-Deal, Tami	Senior Vice Provost/Professor	09/05/2023
09/05/2023	CEM CORPORATION	1	InsituPro/CPR/BWA/MB/SWA	0.2	69,336.80	13,867.36		Molecular Biology	Boyles, Victoria	Dir, Business Operations	09/05/2023
09/05/2023	CEM CORPORATION	1	InsituPro/CPR/BWA/MB/SWA	0.8	69,336.80	55,469.44	69,336.80	Agricultural Experiment Station	Boyles, Victoria	Dir, Business Operations	09/05/2023
09/06/2023	ALLIED UNIVERSAL EVENT SERVICES	1	Allied Universal Event Services Staffing for Athletics Events	1	400,000.00	400,000.00	400,000.00	Game Management	Whisenant, Matthew	Deputy Director	09/06/2023
09/07/2023	Altitude Chophouse & Brewery	1	Fall 2023 Wildcatter Catering for 7 home football games. Estimating \$27,000/game	1	189,000.00	189,000.00	189,000.00	Cowboy Joe Club	Brodie, Samuel	Assoc AD/Budgeting & Fin Mgmt	09/07/2023
09/11/2023	Portland State University	1	Game Guarantee for September 9, 2023 Football Game.	1	400,000.00	400,000.00	400,000.00	Mens Football	Brodie, Samuel	Assoc AD/Budgeting & Fin Mgmt	09/11/2023
09/12/2023	National Public Radio	2	Program Fee: NPR, Fresh Air	1	13,119.44	13,119.44		Wyoming Public Media	Chitnis, Parag	Vice President/Professor, Research & Economic Development	09/12/2023
09/12/2023	National Public Radio	1	Program Fee: NPR, Core Fees including Morning Edition	1	271,230.56	271,230.56		Wyoming Public Media	Chitnis, Parag	Vice President/Professor, Research & Economic Development	09/12/2023

09/12/2023	National Public Radio	6	Program Fee: NPR, The Thistle & Shamrock	1	6,296.00	6,296.00		Wyoming Public Media	Chitnis, Parag	Vice President/Professor, Research & Economic Development	09/12/2023
09/12/2023	National Public Radio	7	Program Fee: NPR, Wait Wait...Don't Tell Me	1	19,427.44	19,427.44		Wyoming Public Media	Chitnis, Parag	Vice President/Professor, Research & Economic Development	09/12/2023
09/12/2023	National Public Radio	3	Program Fee: NPR, HD - NPR Programs	1	4,065.00	4,065.00		Wyoming Public Media	Chitnis, Parag	Vice President/Professor, Research & Economic Development	09/12/2023
09/12/2023	National Public Radio	2	Program Fee: NPR, Fresh Air	1	25,593.56	25,593.56		Wyoming Public Media	Chitnis, Parag	Vice President/Professor, Research & Economic Development	09/12/2023
09/12/2023	National Public Radio	5	Program Fee: NPR, TED Radio Hour	1	6,609.00	6,609.00		Wyoming Public Media	Chitnis, Parag	Vice President/Professor, Research & Economic Development	09/12/2023
09/12/2023	National Public Radio	4	Program Fee: NPR, Here & Now	1	29,964.00	29,964.00		Wyoming Public Media	Chitnis, Parag	Vice President/Professor, Research & Economic Development	09/12/2023
09/12/2023	National Public Radio	7	Program Fee: NPR, Wait Wait...Don't Tell Me	1	11,592.56	11,592.56	387,897.56	Wyoming Public Media	Chitnis, Parag	Vice President/Professor, Research & Economic Development	09/12/2023
09/12/2023	Appalachian State University	1	Game Guarantee for Football versus Appalachian State game on September 23, 2023.	1	225,000.00	225,000.00	225,000.00	Mens Football	Brodie, Samuel	Assoc AD/Budgeting & Fin Mgmt	09/12/2023
09/13/2023	Carbon Management Strategies LLC	2	ITC - CMS travel reimbursement from professional services outlined in the agreement for services through 9/30/2023 for the Integrated Test Center.	1	1,000.00	1,000.00		School of Energy Resources Directors Office	Krutka, Holly	Executive Director	09/13/2023
09/13/2023	Carbon Management Strategies LLC	1	ITC - CMS professional services outlined in the agreement for services through 9/30/2023 for the Integrated Test Center.	1	150,101.70	150,101.70		School of Energy Resources Directors Office	Krutka, Holly	Executive Director	09/13/2023
09/13/2023	Carbon Management Strategies LLC	3	ITC - CMS travel reimbursement from professional services outlined in the agreement for services through 9/30/2023 for the Integrated Test Center.	1	500.00	500.00		School of Energy Resources Directors Office	Krutka, Holly	Executive Director	09/13/2023
09/13/2023	Carbon Management Strategies LLC	4	ITC - CMS travel reimbursement from professional services outlined in the agreement for services through 9/30/2023 for the Integrated Test Center.	1	1,000.00	1,000.00		School of Energy Resources Directors Office	Krutka, Holly	Executive Director	09/13/2023
09/13/2023	Carbon Management Strategies LLC	5	ITC - CMS travel reimbursement from professional services outlined in the agreement for services through 9/30/2023 for the Integrated Test Center.	1	500.00	500.00	153,101.70	School of Energy Resources Directors Office	Krutka, Holly	Executive Director	09/13/2023
09/13/2023	Texas Tech University	1	Game Guarantee - Football versus Texas Tech, September 2, 2023.	1	300,000.00	300,000.00	300,000.00	Mens Football	Brodie, Samuel	Assoc AD/Budgeting & Fin Mgmt	09/13/2023
09/15/2023	Wood Group USA	1	ITC - Wood providing professional services as outlined in agreement for services dated 7/25/2023 through 12/31/2027.	1	600,000.00	600,000.00	600,000.00	School of Energy Resources Directors Office	Carman, Kevin	Exec Vice President for Academic Affairs & Provost/Professor	09/15/2023
09/17/2023	Quantum Design Inc	1	MPMS3 SQUID Magnetometer with DC Scan	1	549,785.00	549,785.00	549,785.00	VP for Research & Economic Development Office	Chitnis, Parag	Vice President/Professor, Research & Economic Development	09/17/2023
09/18/2023	Reserve Account	1	80,000 FIRST CLASS POSTAGE TO PUT ON POSTAL METERS - FOR UW DEPARTMENT USE	1	80,000.00	80,000.00	80,000.00	Postal Services	Bryant, Darcy	Deputy Director, Business Serv	09/15/2023
09/19/2023	Waters Technologies Corp	1	HR 20 Discovery Hybrid Rheometer	0.05	88,807.50	4,440.38		Molecular Biology	Boyles, Victoria	Dir, Business Operations	09/19/2023
09/19/2023	Waters Technologies Corp	1	HR 20 Discovery Hybrid Rheometer	0.74	88,807.50	65,717.55		Agricultural Experiment Station	Boyles, Victoria	Dir, Business Operations	09/19/2023
09/19/2023	Waters Technologies Corp	1	HR 20 Discovery Hybrid Rheometer	0.21	88,807.50	18,649.58	88,807.50	Molecular Biology	Boyles, Victoria	Dir, Business Operations	09/19/2023
09/20/2023	University Corporation for Atmospheric Research	1	14th Installment of NCAR Support per agreement (14 of 20 Payments)	1	1,000,000.00	1,000,000.00	1,000,000.00	NWSC Innovation Center	Seidel, Ed	President	09/20/2023
09/20/2023	University of Washington	2	2nd UWSOM Tuition & Fees Contract payment for 2023-2024 (January 2024)	1	2,186,081.00	2,186,081.00		WWAMI Medical Education Program	Seidel, Ed	President	09/20/2023
09/20/2023	University of Washington	3	3rd UWSOM Tuition & Fees Contract payment for 2023-2024 (March 2024)	1	2,186,080.00	2,186,080.00		WWAMI Medical Education Program	Seidel, Ed	President	09/20/2023
09/20/2023	University of Washington	1	1st UWSOM Tuition & Fees Contract payment for 2023-2024 (Sept 2023)	1	2,186,081.00	2,186,081.00	6,558,242.00	WWAMI Medical Education Program	Seidel, Ed	President*	09/20/2023
09/21/2023	Laramie County Community College	2	IMPACT Cheyenne; Annual phone service for UW IMPACT 307, MW, PTAC, SBDC, TRIO and EXTENSION in the Clay Pathfinder building in Cheyenne WY for FY24 - 07/01/23-06/30/24;MW & SBDC paying from own accounts, SEO , Extension and IMPACT 307 from	1	660.00	660.00		IMPACT 307	Miller, Jamison	Dir, Business Operations	09/21/2023
09/21/2023	Laramie County Community College	1	IMPACT Cheyenne; Leased space of 10,238 sq ft in the Clay Pathfinder building in Cheyenne WY for FY24 - 07/01/23-06/30/24;MW & SBDC paying from own accounts, SEO , Extension and IMPACT 307 from IMPACT 307 Unrestricted ; 08/25/23	1	73,325.24	73,325.24		IMPACT 307	Miller, Jamison	Dir, Business Operations	09/21/2023
09/21/2023	Laramie County Community College	3	IMPACT Cheyenne; Custodial Services in the Clay Pathfinder building in Cheyenne WY for FY24 - 07/01/23-06/30/24;MW & SBDC paying from own accounts, SEO , Extension and IMPACT 307 from IMPACT 307 Unrestricted which will be reimbursed by those	1	312.81	312.81		Manufacturing Works	Miller, Jamison	Dir, Business Operations	09/21/2023
09/21/2023	Laramie County Community College	3	IMPACT Cheyenne; Custodial Services in the Clay Pathfinder building in Cheyenne WY for FY24 - 07/01/23-06/30/24;MW & SBDC paying from own accounts, SEO , Extension and IMPACT 307 from IMPACT 307 Unrestricted which will be reimbursed by those	1	312.81	312.81		Manufacturing Works	Miller, Jamison	Dir, Business Operations	09/21/2023
09/21/2023	Laramie County Community College	3	IMPACT Cheyenne; Custodial Services in the Clay Pathfinder building in Cheyenne WY for FY24 - 07/01/23-06/30/24;MW & SBDC paying from own accounts, SEO , Extension and IMPACT 307 from IMPACT 307 Unrestricted which will be reimbursed by those	1	10,798.76	10,798.76		IMPACT 307	Miller, Jamison	Dir, Business Operations	09/21/2023
09/21/2023	Laramie County Community College	1	IMPACT Cheyenne; Leased space of 10,238 sq ft in the Clay Pathfinder building in Cheyenne WY for FY24 - 07/01/23-06/30/24;MW & SBDC paying from own accounts, SEO , Extension and IMPACT 307 from IMPACT 307 Unrestricted ; 08/25/23	1	1,914.41	1,914.41		Manufacturing Works	Miller, Jamison	Dir, Business Operations	09/21/2023

09/21/2023	Laramie County Community College	3	IMPACT Cheyenne; Custodial Services in the Clay Pathfinder building in Cheyenne WY for FY24 - 07/01/23-06/30/24;MW & SBDC paying from own accounts, SEO , Extension and IMPACT 307 from IMPACT 307 Unrestricted which will be reimbursed by those	1	190.62	190.62		VP for Research & Economic Development Office	Miller, Jamison	Dir, Business Operations	09/21/2023
09/21/2023	Laramie County Community College	2	IMPACT Cheyenne; Annual phone service for UW IMPACT 307, MW, PTAC, SBDC, TRIO and EXTENSION in the Clay Pathfinder building in Cheyenne WY for FY24 - 07/01/23-06/30/24;MW & SBDC paying from own accounts, SEO , Extension and IMPACT 307 from	1	44.00	44.00		VP for Research & Economic Development Office	Miller, Jamison	Dir, Business Operations	09/21/2023
09/21/2023	Laramie County Community College	1	IMPACT Cheyenne; Leased space of 10,238 sq ft in the Clay Pathfinder building in Cheyenne WY for FY24 - 07/01/23-06/30/24;MW & SBDC paying from own accounts, SEO , Extension and IMPACT 307 from IMPACT 307 Unrestricted ; 08/25/23	1	1,166.63	1,166.63		VP for Research & Economic Development Office	Miller, Jamison	Dir, Business Operations	09/21/2023
09/21/2023	Laramie County Community College	1	IMPACT Cheyenne; Leased space of 10,238 sq ft in the Clay Pathfinder building in Cheyenne WY for FY24 - 07/01/23-06/30/24;MW & SBDC paying from own accounts, SEO , Extension and IMPACT 307 from IMPACT 307 Unrestricted ; 08/25/23	1	1,914.42	1,914.42	90,639.70	Manufacturing Works	Miller, Jamison	Dir, Business Operations	09/21/2023
09/21/2023	Straight Flight Inc	1	Service Contract agreement with Straight Flight to perform repairs on Transportation Aircraft that came up during Phase One and Phase Two inspections 9/15-12/31/2023.	1	100,000.00	100,000.00	100,000.00	Business Enterprises	Webb, Eric	Assoc VP of Business Enterprises	09/21/2023
09/22/2023	STM Ground, Inc.	1	FB Charter Buses - Texas (FB-Team Travel)	1	15,700.00	15,700.00		Mens Football	Brodie, Samuel	Assoc AD/Budgeting & Fin Mgmt	09/22/2023
09/22/2023	STM Ground, Inc.	2	FB Charter Buses - Air Force (FB-Team Travel)	1	16,600.00	16,600.00		Mens Football	Brodie, Samuel	Assoc AD/Budgeting & Fin Mgmt	09/22/2023
09/22/2023	STM Ground, Inc.	3	FB Charter Buses - Boise State (FB-Team Travel)	1	15,800.00	15,800.00		Mens Football	Brodie, Samuel	Assoc AD/Budgeting & Fin Mgmt	09/22/2023
09/22/2023	STM Ground, Inc.	4	FB Charter Buses - UNLV (FB-Team Travel)	1	14,135.16	14,135.16		Mens Football	Brodie, Samuel	Assoc AD/Budgeting & Fin Mgmt	09/22/2023
09/22/2023	STM Ground, Inc.	5	FB Charter Buses - Nevada (FB-Team Travel)	1	16,978.00	16,978.00	79,213.16	Mens Football	Brodie, Samuel	Assoc AD/Budgeting & Fin Mgmt	09/22/2023
09/22/2023	ThyssenKrupp Elevator Corporation	1	FY24 ANNUAL CAMPUS ELEVATOR & LIFT MAINTENANCE	1	364,693.80	364,693.80		Facilities Engineering	Samp, Michael	Assoc VP for Univ Operations	09/22/2023
09/22/2023	ThyssenKrupp Elevator Corporation	2	FY24 ANNUAL CAMPUS ELEVATOR & LIFT MAINTENANCE, WTBC CASPER (4835.76), GATEWAY CENTER (10985.40), UNION (14053.68), HOUSING (60878.88), REO HARNEY (2795.76), ENZI STEIN (45507.28)	1	108,056.76	108,056.76	472,750.56	Facilities Engineering	Samp, Michael	Assoc VP for Univ Operations	09/22/2023
09/22/2023	Clean Harbors Environmental Services Inc	1	ENVIRONMENTAL SERVICES FOR UW TASK 1: LAB PACK MOBILIZATION. UW TASK 2: LABOR, MATERIALS, TRANSP, AND DISPOSAL. ESTIMATED RECOVERY & WASTE FEES	1	77,509.72	77,509.72	77,509.72	UW Safety Office	Bryant, Darcy	Deputy Director, Business Serv	09/20/2023
09/25/2023	New Jersey Institute of Technology	1	Groundwater-supported vegetation refugia as a mechanism of forest recovery in a Rocky Mountain watershed impacted by wildfire	1	25,000.00	25,000.00		Geology & Geophysics	Barber, Megan	Dir, Business Operations	09/22/2023
09/25/2023	New Jersey Institute of Technology	2	Groundwater-supported vegetation refugia as a mechanism of forest recovery in a Rocky Mountain watershed impacted by wildfire	1	120,011.63	120,011.63	145,011.63	Geology & Geophysics	Barber, Megan	Dir, Business Operations	09/22/2023
09/25/2023	Armature Advocacy, LLC	1	ITC AA professional services as outlined in the agreement for services effective 10/1/2023 - 9/30/2024.	1	100,000.00	100,000.00	100,000.00	School of Energy Resources Directors Office	Krutka, Holly	Executive Director	09/25/2023
09/26/2023	Clear Strategy Partners	1	ITC CSP professional services as outlined in the agreement for services effective 10/1/2023 - 9/30/2024.	1	60,000.00	60,000.00	60,000.00	School of Energy Resources Directors Office	Ferrell, Rachel	Dir, Business Operations	09/26/2023
09/27/2023	Ellucian Company L.P.	1	Ellucian Elevate Renewal 10/01/23-09/30/24	1	59,546.00	59,546.00	59,546.00	Applications & Customer Relations	Christensen, Margaux	Exec Administrator, IT Business Services	09/27/2023
09/28/2023	NWCCD Sheridan College	1	Dental Hygiene Fall 2023	1	79,652.00	79,652.00		Office of Online & Continuing Education	Benham-Deal, Tami	Senior Vice Provost/Professor	09/27/2023
09/28/2023	NWCCD Sheridan College	1	Dental Hygiene Fall 2023	1	34,500.00	34,500.00	114,152.00	Office of Online & Continuing Education	Benham-Deal, Tami	Senior Vice Provost/Professor	09/27/2023
09/28/2023	Metrohm USA Inc	1	BWS475-532H-HT: i-Raman Prime, BAC151C-532: Raman Video Micro-Sampling System	1	68,332.74	68,332.74	68,332.74	School of Energy Resources Directors Office	Takaki, YeonShim	Hourly Pooled, SER	09/28/2023
09/28/2023	10x Genomics, Inc.	1	Visium CytAssist, Visium CytAssist for FFPE Spatial Gene Expression 6.5mm, Mouse, 4 rxns, Dual Index Kit TS Set A, 96 rxn, Chromium Next GEM Single Cell 3' Kit v3.1, 16 rxns, Chromium Next GEM Chip G Single Cell Kit 48 rxns	1	80,637.50	80,637.50	80,637.50	Zoology & Physiology	Cole, Laura	Business Manager	09/28/2023
09/29/2023	Niche.com, Inc.	1	Niche Membership Inv# 2 Includes services such as • Custom Lead Order - Bulk • Custom Lead Order - Subscription • Google Analytics Audit • Google Analytics Dashboard • Market Intelligence Report • Premium Profile • Qualified Inquiries	1	150,000.00	150,000.00	150,000.00	Admissions	Benham-Deal, Tami	Senior Vice Provost/Professor	09/29/2023
09/29/2023	College Board	1	Search Annual Subscription	1	52,000.00	52,000.00	52,000.00	Admissions	Stark, Stephanie	Dir, Business Operations	09/29/2023
10/03/2023	Waypoints Wyoming LLC	1	ITC WWY professional services as outlined in the agreement for services effective 10/1/2023 - 9/30/2026.	1	900,000.00	900,000.00	900,000.00	School of Energy Resources Directors Office	Carman, Kevin	Exec Vice President for Academic Affairs & Provost/Professor	10/03/2023
10/03/2023	Creighton University	1	2023-24 Cost of attendance for Wyoming student to attend the University of Creighton	1	603,306.00	603,306.00	603,306.00	WyDENT	Carman, Kevin	Exec Vice President for Academic Affairs & Provost/Professor	10/03/2023
10/03/2023	Evident Scientific	1	BX51WI EPHYS IR-DIC/EPI-FLUORO MICROSCOPE SYSTEM	1	62,227.96	62,227.96	62,227.96	VP for Research & Economic Development Office	Miller, Jamison	Dir, Business Operations	10/03/2023
10/04/2023	United Healthcare Student Resources	1	International Student Health Insurance - Invoice 23-005857-10-2 (ITL (Risk Management Approved))	1	669,864.00	669,864.00	669,864.00	Risk Management Office	Evans, Teresa	Vice President & General Counsel	10/04/2023
10/04/2023	Barcelona SAE, Inc.	1	MBA International study abroad program expenses for trip to Barcelona & Madrid, Spain 1/5 to 1/13/2024. Details of expenses are included on Exhibit A of the attached approved contract.	1	90,000.00	90,000.00		MBA & Professional Graduate Programs	Rhodine, Karen	Dir, Business Operations	10/04/2023
10/04/2023	Barcelona SAE, Inc.	2	MBA International study abroad program expenses for trip to Barcelona & Madrid, Spain 1/5 to 1/13/2024. Details of expenses are included on Exhibit A of the attached approved contract.	1	35,000.00	35,000.00	125,000.00	MBA & Professional Graduate Programs	Rhodine, Karen	Dir, Business Operations	10/04/2023
10/04/2023	Little America Hotels & Resorts Inc	5	Little America - Food and alcohol for Cowboy Joe Club Fall 2023 Auction	1	91,000.00	91,000.00		Cowboy Joe Club	Brodie, Samuel	Assoc AD/Budgeting & Fin Mgmt	10/04/2023
10/04/2023	Little America Hotels & Resorts Inc	4	Little America - Lodging for Cowboy Joe Club 2023 Auction	1	1,500.00	1,500.00		Cowboy Joe Club	Brodie, Samuel	Assoc AD/Budgeting & Fin Mgmt	10/04/2023

10/04/2023	Little America Hotels & Resorts Inc	3	Little America - Incident meal Thursday before auction for Cowboy Joe Club 2023 Auction	1	450.00	450.00		Cowboy Joe Club	Brodie, Samuel	Assoc AD/Budgeting & Fin Mgmt	10/04/2023
10/04/2023	Little America Hotels & Resorts Inc	1	Little America Conference rooms rental Cowboy Joe Club 2023 Auction	1	2,000.00	2,000.00		Cowboy Joe Club	Brodie, Samuel	Assoc AD/Budgeting & Fin Mgmt	10/04/2023
10/04/2023	Little America Hotels & Resorts Inc	2	Little American - Audio Visual for Cowboy Joe Club 2023 Auction	1	4,500.00	4,500.00	99,450.00	Cowboy Joe Club	Brodie, Samuel	Assoc AD/Budgeting & Fin Mgmt	10/04/2023
10/05/2023	Northern Wyoming Community College District	1	GROUND RENT AND O&M SHARED COST REIMBURSEMENT FOR THE WATT AGRICULTURE CENTER BUILDING AND RESEARCH GREENHOUSE FACILITIES ON THE SHERIDAN COLLEGE CAMPUS.	1	123,783.03	123,783.03	123,783.03	Real Estate Operations	Samp, Michael	Assoc VP for Univ Operations	10/05/2023
10/05/2023	West Fork Construction, LLC	1	AMK UNIVERSITY OF WYOMING RESEARCH CENTER, WINTER MAINTENANCE, SHOVEL ROOFS FROM SNOW ACCUMULATION, PREP SITE FOR WINTER, CHECK SITE THROUGHOUT THE WINTER	1	50,000.00	50,000.00	50,000.00	Facilities Engineering	Bryant, Darcy	Deputy Director, Business Serv	10/04/2023
10/05/2023	WorldStrides	1	Education Abroad; University of Wyoming to Thailand; program changes	1	63,127.00	63,127.00	63,127.00	Education Abroad	Frank, Cheri	Assistant Director, Business Operations	10/05/2023
10/06/2023	CDW Government, Inc.	5	Juniper Networks Care Core technical support 1 year	1	2,624.00	2,624.00		Enterprise Infrastructure	Christensen, Margaux	Exec Administrator, IT Business Services	10/06/2023
10/06/2023	CDW Government, Inc.	14	Juniper Networks Remote Inspection Category 2 technical support	1	899.00	899.00		Enterprise Infrastructure	Christensen, Margaux	Exec Administrator, IT Business Services	10/06/2023
10/06/2023	CDW Government, Inc.	13	Juniper Networks Remote Inspection Category 2 technical support	4	899.00	3,596.00		Enterprise Infrastructure	Christensen, Margaux	Exec Administrator, IT Business Services	10/06/2023
10/06/2023	CDW Government, Inc.	12	Juniper Networks Remote Inspection Category 2 technical support	1	899.00	899.00		Enterprise Infrastructure	Christensen, Margaux	Exec Administrator, IT Business Services	10/06/2023
10/06/2023	CDW Government, Inc.	6	Juniper Networks Care Core technical support 1 year	1	2,624.00	2,624.00		Enterprise Infrastructure	Christensen, Margaux	Exec Administrator, IT Business Services	10/06/2023
10/06/2023	CDW Government, Inc.	1	Juniper Networks Care Next Day Delivery extended service agreement 1 ye	1	4,627.00	4,627.00		Enterprise Infrastructure	Christensen, Margaux	Exec Administrator, IT Business Services	10/06/2023
10/06/2023	CDW Government, Inc.	2	Juniper Networks Care Next Day Delivery extended service agreement 1 ye	1	4,627.00	4,627.00		Enterprise Infrastructure	Christensen, Margaux	Exec Administrator, IT Business Services	10/06/2023
10/06/2023	CDW Government, Inc.	3	Juniper Networks Care Core technical support 1 year	1	3,433.00	3,433.00		Enterprise Infrastructure	Christensen, Margaux	Exec Administrator, IT Business Services	10/06/2023
10/06/2023	CDW Government, Inc.	4	Juniper Networks Care Core technical support 1 year	1	2,624.00	2,624.00		Enterprise Infrastructure	Christensen, Margaux	Exec Administrator, IT Business Services	10/06/2023
10/06/2023	CDW Government, Inc.	15	Juniper Networks Remote Inspection Category 1 technical support	1	2,247.00	2,247.00		Enterprise Infrastructure	Christensen, Margaux	Exec Administrator, IT Business Services	10/06/2023
10/06/2023	CDW Government, Inc.	7	Juniper Networks Care Core technical support 1 year	1	2,624.00	2,624.00		Enterprise Infrastructure	Christensen, Margaux	Exec Administrator, IT Business Services	10/06/2023
10/06/2023	CDW Government, Inc.	8	Juniper Networks Care Core technical support 1 year	1	2,624.00	2,624.00		Enterprise Infrastructure	Christensen, Margaux	Exec Administrator, IT Business Services	10/06/2023
10/06/2023	CDW Government, Inc.	9	Juniper Networks Care Next Day extended service agreement 1 year shio	1	22,792.00	22,792.00		Enterprise Infrastructure	Christensen, Margaux	Exec Administrator, IT Business Services	10/06/2023
10/06/2023	CDW Government, Inc.	10	Juniper Networks Remote Inspection Category 2 technical support	1	899.00	899.00		Enterprise Infrastructure	Christensen, Margaux	Exec Administrator, IT Business Services	10/06/2023
10/06/2023	CDW Government, Inc.	11	Juniper Networks Remote Inspection Category 2 technical support	1	899.00	899.00	58,038.00	Enterprise Infrastructure	Christensen, Margaux	Exec Administrator, IT Business Services	10/06/2023
10/06/2023	United Healthcare Student Resources	1	Domestic Student Health Insurance - Invoice 23-005857-10-2 DOM (Risk Management Approved)	1	1,087,552.00	1,087,552.00	1,087,552.00	Risk Management Office	Seidel, Ed	President	10/06/2023
10/09/2023	Carbon Management Strategies LLC	1	ITC CMS professional services as outlined in the agreement for services effective 10/1/2023 - 9/30/2026.	1	550,000.00	550,000.00	550,000.00	School of Energy Resources Directors Office	Carman, Kevin	Exec Vice President for Academic Affairs & Provost/Professor	10/09/2023
10/09/2023	University of Nebraska Medical Center	1	2023-2024 Estimated cost of attendance for Wyoming students to attend WY Dental Program at UNMC College of Dentistry	1	561,952.79	561,952.79	561,952.79	WyDENT	Carman, Kevin	Exec Vice President for Academic Affairs & Provost/Professor	10/09/2023
10/09/2023	AssetWorks LLC	1	SAAS AGREEMENT FOR AIM SOFTWARE - ANNUAL TERM 9/1/23 - 8/31/24	1	154,115.12	154,115.12	154,115.12	Business Services	Samp, Michael	Assoc VP for Univ Operations	10/06/2023
10/10/2023	Albany County Treasurer	1	221 Grand Ave- Catering/ Conference Center 2023 Property TAXES	1	62,967.24	62,967.24	62,967.24	Catering and Events	Watanabe, Rebecca	Business Manager	10/10/2023
10/10/2023	California Polytechnic State University, San Luis Obispo	1	Game Guarantee - Men's Basketball versus Cal Poly on November 11, 2023	1	80,000.00	80,000.00	80,000.00	Mens Basketball	Brodie, Samuel	Assoc AD/Budgeting & Fin Mgmt	10/10/2023
10/10/2023	Stephen F. Austin State University	1	Game Guarantee - Men's Basketball versus Stephen F Austin on December 9, 2023	1	75,000.00	75,000.00	75,000.00	Mens Basketball	Brodie, Samuel	Assoc AD/Budgeting & Fin Mgmt	10/10/2023
10/11/2023	Thomson Reuters - West	1	Law Library book subscriptions for core primary law books. This will serve as FY24 blanket PO that I can receive large invoices against.	1	312,000.00	312,000.00	312,000.00	Law Library	Alexander, Klinton	Dean/Professor	10/11/2023
10/11/2023	Weber State University	1	Game Guarantee - Men's Basketball versus Weber State on December 16, 2023	1	80,000.00	80,000.00	80,000.00	Mens Basketball	Brodie, Samuel	Assoc AD/Budgeting & Fin Mgmt	10/10/2023
10/11/2023	New England Research, Inc.	1	Velocity Module - Signal Condition with Data Acquisitions Electronics. One Compressional and Two Shear Waves per End Caps set. Additional Velocity End Caps - Radial Velocity Transducers. One Site Installation and Training.	0.77	90,000.00	69,300.00		School of Energy Resources Directors Office	Vogt, Francis	Business Manager	10/11/2023
10/11/2023	New England Research, Inc.	1	Velocity Module - Signal Condition with Data Acquisitions Electronics. One Compressional and Two Shear Waves per End Caps set. Additional Velocity End Caps - Radial Velocity Transducers. One Site Installation and Training.	0.11	90,000.00	9,900.00		School of Energy Resources Directors Office	Vogt, Francis	Business Manager	10/11/2023
10/11/2023	New England Research, Inc.	1	Velocity Module - Signal Condition with Data Acquisitions Electronics. One Compressional and Two Shear Waves per End Caps set. Additional Velocity End Caps - Radial Velocity Transducers. One Site Installation and Training.	0.12	90,000.00	10,800.00	90,000.00	School of Energy Resources Directors Office	Vogt, Francis	Business Manager	10/11/2023
10/12/2023	@XI COMPUTER CORPORATION	1	XI BladeRAIDER HPC Cluster RFQ JRB-2023-42 HPC Cluster: Single & Dual Socket AMD® EPYC™ Series Processors, 1U HPC Cluster Server	1	2,576,166.18	2,576,166.18	2,576,166.18	AVP for Research Development Office	Seidel, Ed	President**	10/12/2023
10/12/2023	NCS Pearson, Inc.	1	ED TPA vouchers for Spring 2024/Fall 2024. 200 @ 300.00 each.	200	300.00	60,000.00	60,000.00	College of Education Deans Office	Montez, Kimberly	Dir, Business Operations	10/12/2023

*Board of Trustees approved in FY24 Budget.

**Board of Trustees approved in FY24 Budget.

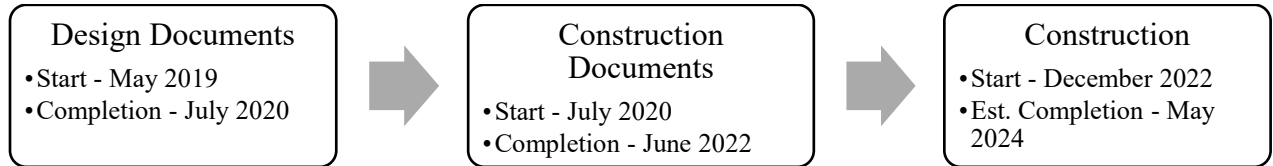
AGENDA ITEM TITLE: Capital Construction Report, Mai

Capital Construction Progress Report as of October 17, 2023

PROJECTS IN CONSTRUCTION

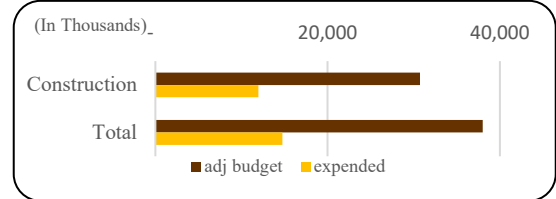
<https://www.uwyo.edu/administration/planning-and-construction/>

1. College of Law Expansion & Renovation



Contractor: FCI Constructors of Wyoming, LLC
BOT approval – July 15, 2022

Architect: By Architectural Means
BOT approval – March 28, 2019



Original Project Budget \$30,000,000 (a)
Adjusted Project Budget \$38,000,000 (d)

Table 1.1: Funding- College of Law Expansion & Renovation

<u>Funding Sources:</u>	<u>Original Anticipated:</u>	<u>Actual:</u>
UW Foundation – donor funds	3,800,000.00	3,800,000.00
State Appropriation 2021-2022 (SF0067, Enrolled Act No. 19)	15,000,000.00	15,000,000.00
Major Maintenance (2023-2024)	11,200,000.00	19,200,000.00
Total Project	30,000,000.00	38,000,000.00

Original budget was \$30,000,000 and was increased to \$38,000,000 because of inflation and increased utility scope.

Table 1.2: Project Expenses- College of Law Expansion & Renovation

(In Thousands)	Budget (a)	Additional Funding/Adj (b)	Use of Contingency (c)	Adj Budget (a+b+c)=(d)	Expenditures (e)	Obligations (f)	Remaining Balance (d+e+f)=(g)
Construction	18,980	7,206	4,529	30,715	(11,974)	(18,741)	-
Contingency	6,297	754	(4,919)	2,132	-	-	2,132
Design	1,759	(25)	737	2,471	(1,701)	(322)	448
FF&E	1,154	45	(424)	775	(30)	(39)	706
Tech	714	(50)	(379)	285	(3)	-	282
Admin	1,096	70	456	1,622	(1,036)	(399)	187
Total	30,000	8,000	-	38,000	(14,744)	(19,501)	3,755

Project History Summary: College of Law Expansion & Renovation

Pre-Construction	\$ 36,400
Guaranteed Maximum Price (Amendment #1)	\$30,657,013
Change orders	\$ 21,562
TOTAL	\$30,714,975

Contract Substantial Completion Date May 8, 2024

Project History Detail: College of Law Expansion & Renovation

Statement of Contract Amount

Original contract	Pre-construction	\$36,400
Amendment #1	Guaranteed Maximum Price	30,657,013
Change Order #1	Miscellaneous data/telecom revisions	21,562
Adj contract		\$30,714,975

Project Update: College of Law Expansion & Renovation

Work Completed/In Progress:

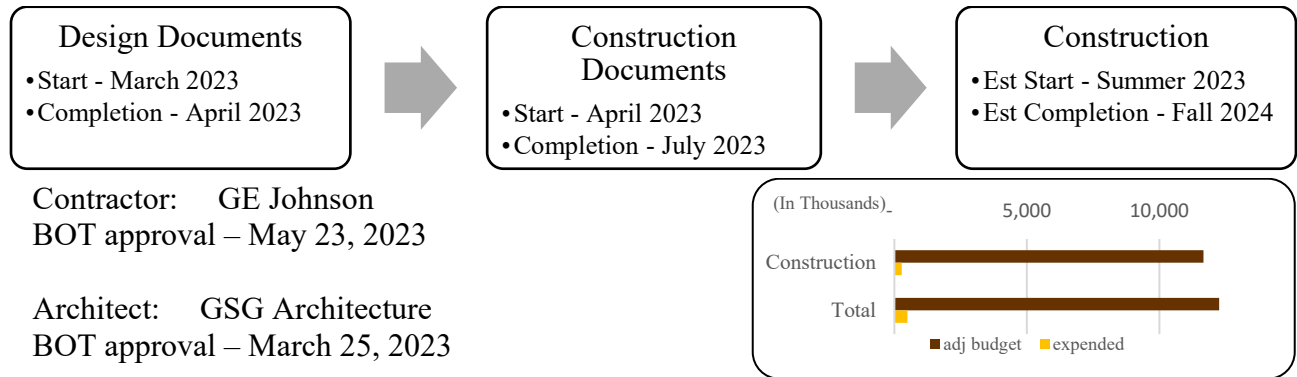
- Foundations on the west side are complete.
- Roof activities are underway.
- Structural steel install should be complete by the end of the month.
- Foundation backfill is complete.
- Level 2 mechanical, electrical and plumbing (MEP) rough-in is underway in the new addition.
- New tunnel install is complete.
- Slab on grade is 80% complete. Slab on deck is 80% complete.
- Exterior framing has started on the north side and is progressing east.
- Mechanical room install is in progress. Heat exchanger is installed and temporary building heat is operational.

Issues Encountered with Proposed Resolution for Each:

- It was discovered that 1,200 square feet of existing slab on grade has excessive voids under the slab. The contractor has been directed to demolish and replace resulting in a \$30,000 cost impact.

Work Planned for Upcoming Month:
<ul style="list-style-type: none">• Structural steel install.• Miscellaneous interior activities.• New interior finishes and mechanical, electrical and plumbing (MEP) on L-2 addition.• Exterior framing.• Mechanical room upgrades.• Clearstory structural steel install.• Interior design coordination for furniture package.• Slab on grade and slab on deck installs.• Stair install.• Vapor barrier and insulation install.• Exterior stone install.• Roof top unit/air handler unit delivery and install.

2. Science Initiative Shelled Space Build-Out



Original Project Budget \$12,250,000 (a)

Adjusted Project Budget \$12,250,000 (d)

Table 2.1: Funding- Science Initiative Shelled Space Build-Out

<u>Funding Sources:</u>	<u>Original Anticipated:</u>	<u>Actual:</u>
State Appropriation 2023, SF0146, Enrolled Act 84, Section 067	12,250,000	12,250,000
Total Project	12,250,000	12,250,000

Table 2.2: Project Expenses- Science Initiative Shelled Space Build-Out

(In Thousands)	Budget	Additional Funding/Adj	Use of Contingency	Adj Budget	Expenditures	Obligations	Remaining Balance
	(a)	(b)	(c)	(a+b+c)=(d)	(e)	(f)	(d+e+f)=(g)
Construction	11,669	-	-	11,669	(271)	(11,398)	-
Contingency	84	-	-	84	-	-	84
Design	250	-	-	250	(169)	(81)	-
FF&E	110	-	-	110	-	-	110
Tech	13	-	-	13	-	-	13
Admin	124	-	-	124	(57)	-	67
Total	12,250	-	-	12,250	(497)	(11,479)	274

Project History Summary: Science Initiative Shelled Space Build-Out

Construction contract \$11,668,747.00
Contract Substantial Completion Date August 1, 2024

Project History Detail: Science Initiative Shelled Space Build-Out

Statement of Contract Amount (GE Johnson)

Original contract	Change order #22 (GE Johnson Science Initiative)	\$11,668,747
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Project Update: Science Initiative Shelled Space Build-Out

Work Completed/In Progress:

- Construction drawings are 100% complete.
- Early long lead time procurement is in progress.
- Mechanical and plumbing package is under review and final procurement activities are in process.
- Select demolition is complete.
- Framing layout and building model coordination is in process.

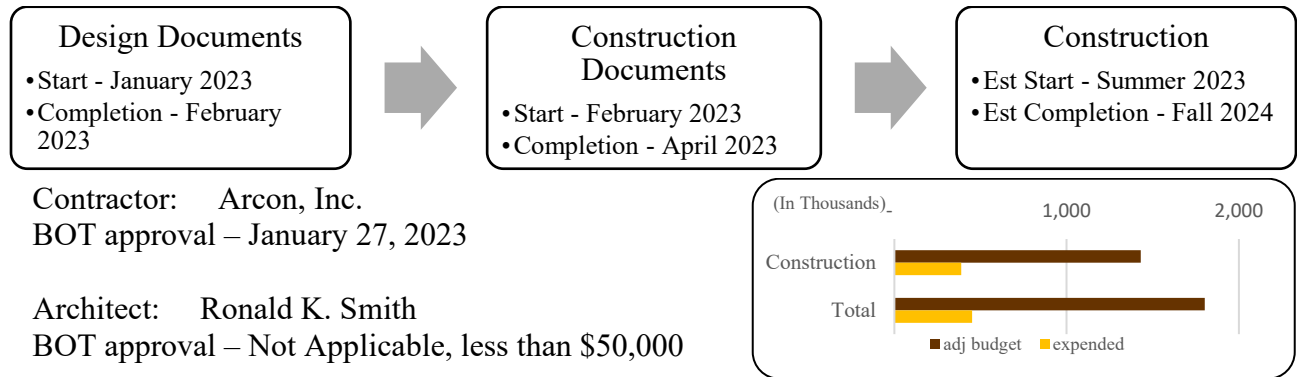
Issues Encountered with Proposed Resolution for Each:

- None at this time.

Work Planned for Upcoming Month:

- Layout and framing.

3. Wyoming Union Retail Renovation: Chick-Fil-A



Original Project Budget \$1,801,863 (a)
Adjusted Project Budget \$1,801,863 (d)

Table 3.1: Funding- Wyoming Union Retail Renovation: Chick-Fil-A

<u>Funding Sources:</u>	<u>Original Anticipated:</u>	<u>Actual:</u>
UW – Housing Reserve (Not to Exceed)	2,250,000	1,801,863
Total Project	2,250,000	1,801,863

Original budget was \$2,250,000 and was decreased to \$1,801,863 because the GMP was lower than expected.

Table 3.2: Project Expenses- Wyoming Union Retail Renovation: Chick-Fil-A

(In Thousands)	Budget	Additional Funding/Adj	Use of Contingency	Adj Budget	Expenditures	Obligations	Remaining Balance
	(a)	(b)	(c)	(a+b+c)=(d)	(e)	(f)	(d+e+f)=(g)
Construction	1,431	-	-	1,431	(388)	(1,043)	-
Contingency	225	-	-	225	-	-	225
Design	56	-	-	56	(42)	(8)	6
FF&E	28	-	-	28	(15)	(4)	9
Tech	5	-	-	5	-	-	5
Admin	57	-	-	57	(6)	-	51
Total	1,802	-	-	1,802	(451)	(1,055)	296

Project History Summary: Wyoming Union Retail Renovation: Chick-Fil-A

Guaranteed Maximum Price	\$1,430,543
Contract Substantial Completion Date	March 24, 2024

Project History Detail: Wyoming Union Retail Renovation: Chick-Fil-A

Statement of Contract Amount (Arcon, Inc.)

Original contract	Pre-construction fees	\$14,900.00
Amendment #1	Guaranteed Maximum Price (includes Pre-con fees)	1,430,543.00
Adj contract		\$1,430,543.00

Project Update: Wyoming Union Retail Renovation: Chick-Fil-A

Work Completed/In Progress:

- Construction drawings are complete.
- Contracting and public bidding is complete.
- Submittals and long lead time procurement are in process.
- Plumbing water connections have started.
- Electrical feeder pathways are in process.
- Electrical rough-in is complete.
- Select demolition is complete.
- All procurement activities are complete, long lead time items are built into completion schedule.

Issues Encountered with Proposed Resolution for Each:

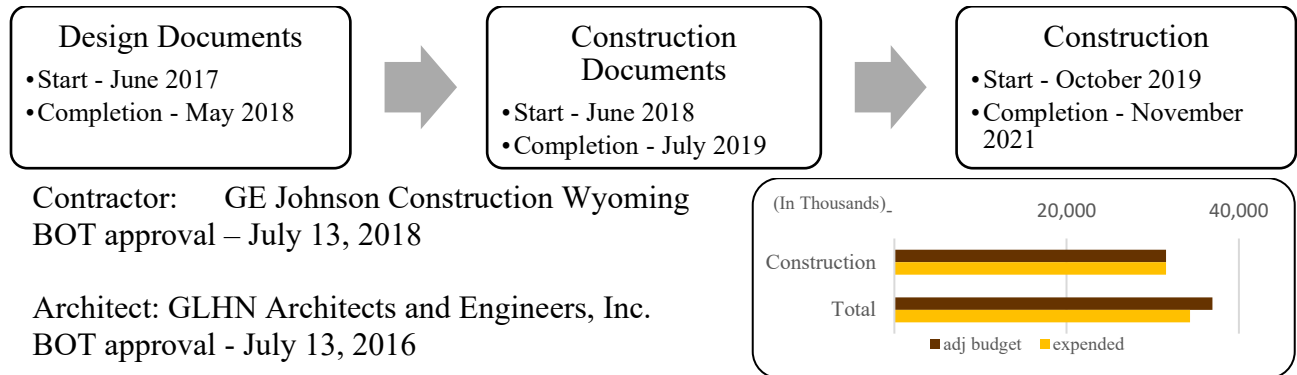
- None at this time.

Work Planned for Upcoming Month:

- Plumbing rough-in.
- Select priority framing.

Utility Infrastructure

4. West Campus Satellite Energy Plant – Phase I



Original Project Budget \$ 36,931,109 (a)
Adjusted Project Budget \$ 36,931,109 (d)

Table 4.1: Funding- West Campus Satellite Energy Plant- Phase I

<u>Funding Sources:</u>	<u>Original Anticipated:</u>	<u>Actual:</u>
Major Maintenance	18,000,000.00	22,000,000.00
EERB Project Reserve	12,314,336.00	12,612,600.00
SI Project Reserve	2,000,000.00	1,701,736.00
UW – Capital Reserves (BOT)	4,616,773.00	
UW – Housing bonds		616,773.00
Total Project	36,931,109.00	36,931,109.00

Table 4.2: Project Expenses- West Campus Satellite Energy Plant- Phase I

(In Thousands)	Budget (a)	Additional Funding/Adj (b)	Use of Contingency (c)	Adj Budget (a+b+c)=(d)	Expenditures (e)	Obligations (f)	Remaining Balance (d+e+f)=(g)
Construction	29,059		2,463	31,522	(31,522)	-	-
Contingency	4,188	(700)	(3,463)	25	-	-	25
Reserve		1,447	950	2,397		(2,397)	-
Design	2,623	(565)	(14)	2,044	(1,992)	(52)	-
FF&E	110	(50)	(18)	42	(42)	-	-
Tech	25	-	(12)	13	(13)	-	-
Admin	926	(132)	94	888	(753)	(96)	39
Total	36,931	-	-	36,931	(34,322)	(2,545)	64

Project History Summary: West Campus Satellite Energy Plant- Phase I

Guaranteed Maximum Price (Amendment #1 and #2)	\$ 29,058,549.00
Amendments #3 and #4 and Change Orders #1, #2 & #3	\$ 2,463,839.82
TOTAL	\$ 31,522,388.82

Contract Substantial Completion Date November 22, 2021

Project History Detail: West Campus Satellite Energy Plant- Phase I

Statement of Contract Amount

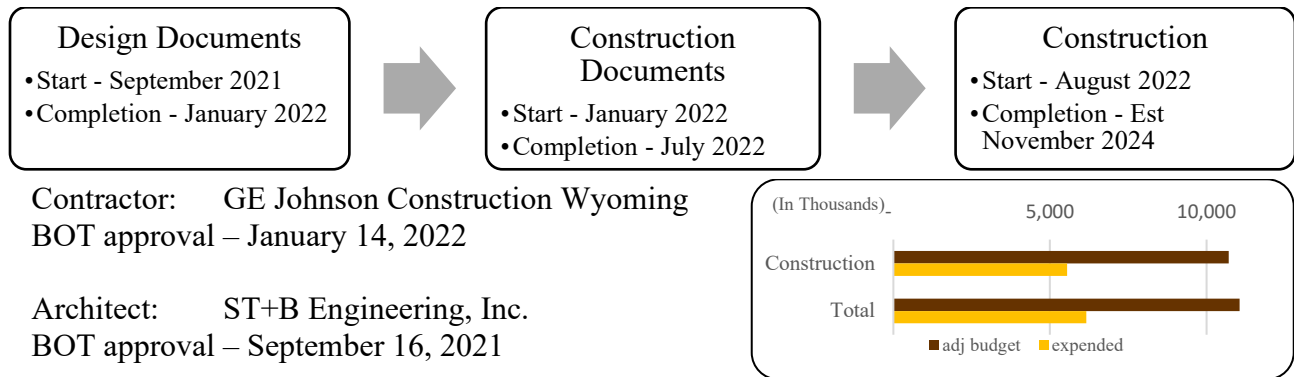
Original contract	Pre-construction fees	\$61,250
Amendment #1	Initial Guaranteed Maximum Price for Foundation and Utilities. (Includes pre-construction fees)	15,486,191
Amendment #2	Final Guaranteed Maximum Price; full project scope	13,572,358
Amendment #3	Utility extension and future boiler rough-in	82,297
Amendment #4	Heat exchangers, full heating conversion to surrounding buildings	2,348,254
Change order #1	Install curb and flood wall east of EERB for drainage mitigation; concrete paving	41,229
Change order #2	Install trench drain and valley pan east of EERB	41,228
Change order #3	Credit for final GMP	(49,168.18)
Adj contract		\$31,522,388.82

Project Update: West Campus Satellite Energy Plant- Phase I

Work Completed/In Progress:
<ul style="list-style-type: none"> Substantial completion accepted on 11/22/2021.
Issues Encountered with Proposed Resolution for Each:
<ul style="list-style-type: none"> None at this time.
Work Planned for Upcoming Month:
<ul style="list-style-type: none"> None at this time.

5. a. West Campus Satellite Energy Plant – Phase II (Hot Water Expansion/Tunnel Upgrades)

b. 15th Street Willett to Iverson – Upgrade West Campus Feed and Move Electrical Underground



Original Project Budget \$ 4,500,000 (a)
Adjusted Project Budget \$ 11,716,038 (d)

Table 5.1a: Funding- West Campus Satellite Energy Plant- Phase II

<u>Funding Sources:</u>	<u>Original Anticipated:</u>	<u>Actual:</u>
Major Maintenance (2017-2018)		50,000.00
Major Maintenance (2021-2022)	4,500,000.00	5,716,038.00
WCSEP Phase I Reserve		950,000.00
Major Maintenance (2023-2024)		5,000,000.00
Total Project	4,500,000.00	11,716,038.00

The original anticipated project was intended to extend the main distribution lines from the WCEP to convert ten campus buildings from steam heating to hot water heating. The actual project covers all the originally anticipated work, replacement of failed condensate line on the north side of Prexy's, replacement of a domestic water line on the south side of Prexy's and improvements to the pedestrian corridor on 9th St. between Iverson and Lewis streets. Additionally three storm water sections were replaced, communications directional bore was added and splicing to enable future tunnel demolition was also included.

Table 5.2a: Project Expenses- West Campus Satellite Energy Plant- Phase II

(In Thousands)	Budget (a)	Additional Funding/Adj (b)	Use of Contingency (c)	Adj Budget (a+b+c)=(d)	Expenditures (e)	Obligations (f)	Remaining Balance (d+e+f)=(g)
Construction	3,385	7,260	61	10,706	(5,549)	(5,157)	-
Contingency	338	(34)	(140)	164	-	-	164
Design	677	20	79	776	(595)	(181)	-
FF&E	-	-	-	-	-	-	-
Tech	-	-	-	-	-	-	-
Admin	100	(30)	-	70	(20)	(21)	29
Total	4,500	7,216	-	11,716	(6,164)	(5,359)	193

Contractor: GE Johnson Construction Wyoming
BOT approval – January 14, 2022

Original Project Budget \$ 3,000,000 (a)
Adjusted Project Budget \$ 2,600,000 (d)

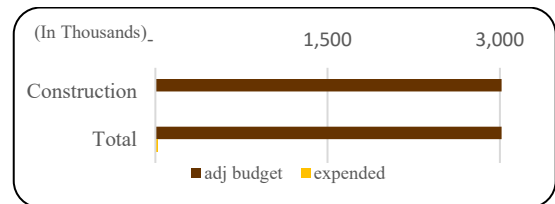


Table 5.1b: Funding- 15th Street Willett to Ivinson: Upgrade West Campus Feed and Move Overhead Electrical Underground

Funding Sources:	Original Anticipated:	Actual:
Major Maintenance (2023-2024)	3,000,000.00	2,600,000.00
Total Project	3,000,000.00	2,600,000.00

Table 5.2b: 15th Street Willett to Ivinson: Upgrade West Campus Feed and Move Electrical Underground

(In Thousands)	Budget (a)	Additional Funding/Adj (b)	Use of Contingency (c)	Adj Budget (a+b+c)=(d)	Expenditures (e)	Obligations (f)	Remaining Balance (d+e+f)=(g)
Construction	3,000	(400)	-	2,600	-	(1,433)	1,167
Contingency	-	-	-	-	-	-	-
Design	-	-	-	-	-	-	-
FF&E	-	-	-	-	-	-	-
Tech	-	-	-	-	-	-	-
Admin	-	-	-	-	-	-	-
Total	3,000	(400)	-	2,600	-	(1,433)	1,167

Project History Summary: West Campus Satellite Energy Plant – Phase II and 15th Street Willett to Ivinson: Upgrade West Campus Feed and Move Overhead Electrical Underground

Guaranteed Maximum Price	\$ 8,072,331
Change orders	\$ 4,066,410
TOTAL	\$12,138,741
Contract Substantial Completion Date	June 10, 2024

Project History Detail: West Campus Satellite Energy Plant – Phase II and 15th Street Willett to Ivinson: Upgrade West Campus Feed and Move Overhead Electrical Underground

Statement of Contract Amount

Original contract		
Amendment #1	Initial Guaranteed Maximum Price	\$950,000
Amendment #2	Final Guaranteed Maximum Price	8,072,331
Change order #1	Additional scope for 9 th Street corridor (lighting, expanded pedestrian access, bus stop improvements)	2,572,803
Change order #2	Replacement/Tie-In of North campus storm sewer (Classroom Building to Health Sciences)	13,104
Change order #3	Replacement/Tie-In of South campus storm sewer	11,662
Change order #4	Right-of-Way signage/striping on 9 th Street	23,421
Change order #5	Replacement/Re-Alignment of storm sewer (Old Main to Biological Sciences)	12,383
Change order #6 **5b. 15 th Street	15th Street Phase 0 IT/low voltage duct bank boring	1,433,037
Adj contract		\$12,138,741

Project Update: West Campus Satellite Energy Plant- Phase II and 15th Street Willett to Ivinson: Upgrade West Campus Feed and Move Overhead Electrical Underground

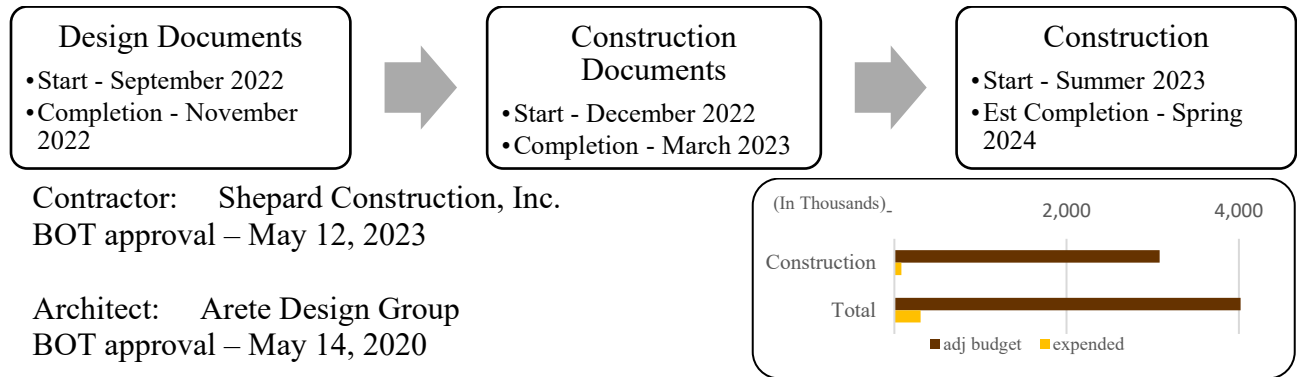
Work Completed/In Progress:
<ul style="list-style-type: none"> Hot water piping is 50% complete on 9th Street, enhanced hardscapes are in place from Ivinson St. to University Ave. Classroom bus stop revisions complete. Lighting upgrades are in progress in the 9th St. corridor. Feeders and pole bases are complete, masonry work is complete. Poles and heads are in process.
Issues Encountered with Proposed Resolution for Each:
<ul style="list-style-type: none"> None at this time.

Work Planned for Upcoming Month:

- | |
|---|
| <ul style="list-style-type: none">• Hot water piping will continue south and west between Biological Sciences and Old Main, south of the Williams Conservatory and will continue north of the transit stop on 9th St.• Building connections of hot water piping.• Hardscape and landscape work in the 9th St. corridor.• Start of hot water distribution piping on the south side of Science Initiative.• Civil revisions to 9th St. north of the transit stop, boulevard and revised flow line.• Back fill and hardscape replacement south of Biological Sciences. |
|---|

Athletics Facilities

6. Athletics Maintenance Facility



Original Project Budget \$4,100,000 (a)
Adjusted Project Budget \$4,100,000 (d)

Table 6.1: Funding- Athletics Maintenance Facility

<u>Funding Sources:</u>	<u>Original Anticipated:</u>	<u>Actual:</u>
State Appropriation 2021-2022, SF0067, Enrolled Act No. 19	2,050,000	2,050,000
UW Foundation – donor funds	2,050,000	2,050,000
Total Project	4,100,000	4,100,000

Table 6.2: Project Expenses- Athletics Maintenance Facility

(In Thousands)	Budget	Additional Funding/Adj	Use of Contingency	Adj Budget	Expenditures	Obligations	Remaining Balance
	(a)	(b)	(c)	(a+b+c)=(d)	(e)	(f)	(d+e+f)=(g)
Construction	3,078	-	-	3,078	(82)	(2,996)	-
Contingency	271	-	-	271	-	-	271
Design	260	-	-	260	(201)	(49)	10
FF&E	67	-	-	67	-	-	67
Tech	81	-	-	81	-	-	81
Admin	343	-	-	343	(22)	(34)	287
Total	4,100	-	-	4,100	(305)	(3,079)	716

Project History Summary: Athletics Maintenance Facility

Construction contract \$ 3,078,400.00

Contract Substantial Completion Date April 1, 2024

Project History Detail: Athletics Maintenance Facility

Statement of Contract Amount (Shepard Construction)

Original contract		\$3,078,400
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Project Update: Athletics Maintenance Facility

Work Completed/In Progress:

- Underground utilities installation underway.
- Building package received and on-site.
- Building erection underway.

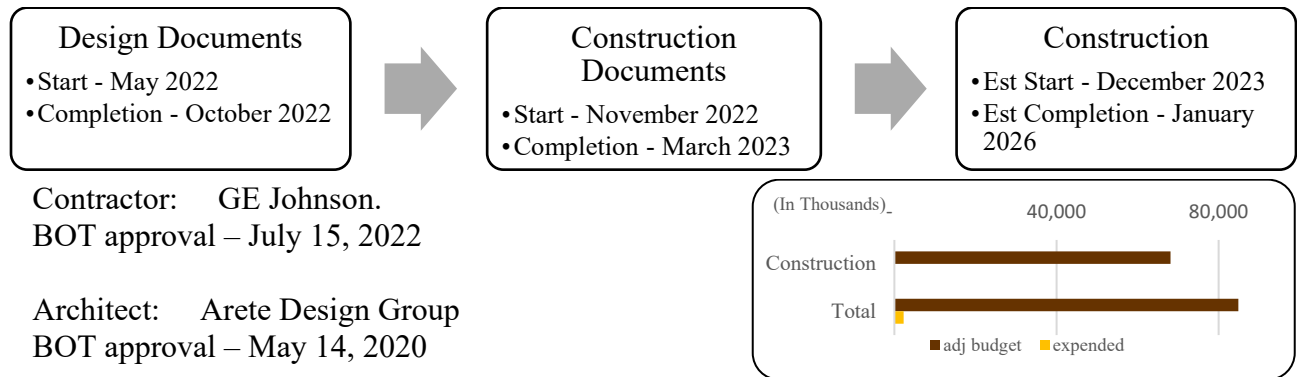
Issues Encountered with Proposed Resolution for Each:

- None at this time.

Work Planned for Upcoming Month:

- Complete underground utilities.
- Complete metal building erection.
- Begin interior concrete slab pouring and flatwork.
- Begin interior framing and mechanical, electrical and plumbing (MEP) rough-in.

7. War Memorial Stadium: West Stands Renovation (Lower Stands, Concourse & Plaza, Loge & Press Boxes)



Contractor: GE Johnson.
BOT approval – July 15, 2022

Architect: Arete Design Group
BOT approval – May 14, 2020

Original Project Budget \$84,900,000 (a)
Adjusted Project Budget \$84,900,000 (d)

Table 7.1: Funding- War Memorial Stadium: West Stands Renovation

<u>Funding Sources:</u>	<u>Original Anticipated:</u>	<u>Actual:</u>
State Appropriation 2021, HB0121, Enrolled Act 73, Section 3 (a) (ii)	6,000,000	6,000,000
UW Foundation – donor funds	17,450,000	17,450,000
State Appropriation 2021-2022, SF0067, Enrolled Act No. 19	11,450,000	11,450,000
State Appropriation 2023, SF0146, Enrolled Act 84, Section 067	31,500,000	31,500,000
Major Maintenance (2023-2024)	6,800,000	6,800,000
UW Construction Reserve	11,700,000	11,700,000
Total Project	84,900,000	84,900,000

Table 7.2: Project Expenses- War Memorial Stadium: West Stands Renovation

(In Thousands)	Budget	Additional Funding/Adj	Use of Contingency	Adj Budget	Expenditures	Obligations	Remaining Balance
	(a)	(b)	(c)	(a+b+c)=(d)	(e)	(f)	(d+e+f)=(g)
Construction	68,013	127	-	68,140	(143)	(67,997)	-
Contingency	3,019	-	-	3,019	-	-	3,019
Design	3,348	-	-	3,348	(1,919)	(956)	473
FF&E	2,635	-	-	2,635	-	-	2,635
Tech	2,790	-	-	2,790	-	(17)	2,773
Admin	5,095	(127)	-	4,968	(196)	(33)	4,739
Total	84,900	-	-	84,900	(2,258)	(69,003)	13,639

Project History Summary: War Memorial Stadium: West Stands Renovation

Guaranteed Maximum Price	\$67,996,706.00
Contract Substantial Completion Date	January 23, 2026

Project History Detail: War Memorial Stadium: West Stands Renovation

Statement of Contract Amount (GE Johnson)

Original contract	Pre-construction fees	\$143,000
Amend#1	Guaranteed Maximum Price (excludes Pre-construction fees)	67,996,706
Adj contract		\$68,139,706

Project Update: War Memorial Stadium: West Stands Renovation

Work Completed/In Progress:

- Contractor job trailer area staging south of the Fieldhouse is complete.
- Asbestos abatement of phase 1 area is complete.
- Trenching and install of conduit around the south end of stadium for fiber/telecom re-routing as part of lower stands demolition enabling underway.

Issues Encountered with Proposed Resolution for Each:

- None at this time.

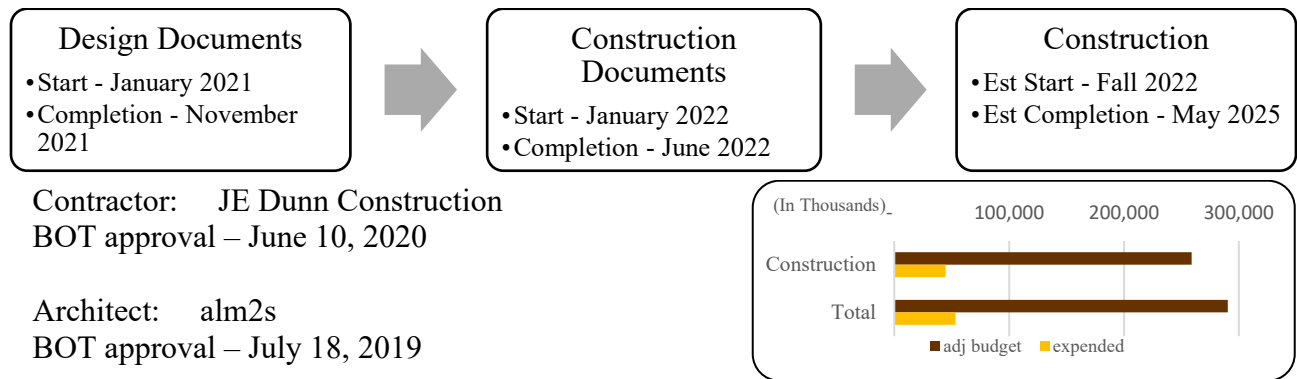
Work Planned for Upcoming Month:

- Complete fiber/telecom reroute to east stands.
- Decommission and remove west stands DAS/Cellular and Wi-Fi/internet systems equipment.
- Remove athletics concessions and maintenance equipment.
- Safe off and disconnect utilities.
- Start lower stands demolition.

UW Housing Phase I
Housing Projects Summary:

Project	Bonds	State Appropriation	Major Maintenance	Other (TBD)	Other (VP Admin)	Other (Grant)	Other (City of Laramie)	Total	Expenditures + Obligations	Remaining Balance
Student Housing & Dining (See Item #8)	\$ 204,227,116	\$ 80,000,000	\$ 4,398,396	\$ 1,683,379	\$ -	\$ -	\$ -	\$ 290,308,891	\$ 269,773,037	\$ 20,535,854
Ivinson Parking Garage (Complete)	\$ 27,331,647		\$ 518,353	\$ -	\$ -	\$ -	\$ -	\$ 27,850,000	\$ 24,989,426	\$ 2,860,574
Wyoming Hall Utility Relocation (Complete)	\$ 13,374,017		\$ 10,712	\$ -	\$ -	\$ -	\$ 88,686	\$ 13,473,416	\$ 13,473,416	\$ -
Bus Garage/Fleet Relocation (Complete)	\$ 2,657,501		\$ -	\$ -	\$ 217,948	\$ 5,053,316	\$ -	\$ 7,928,764	\$ 7,914,950	\$ 13,814
Wyoming Hall Deconstruction (Complete)	\$ 1,492,288		\$ 1,838	\$ -	\$ -	\$ -	\$ -	\$ 1,494,127	\$ 1,494,127	\$ -
West Campus Satellite Energy Plant (Complete)	\$ 616,773		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 616,773	\$ 616,773	\$ -
563 N. 14th Street Property Purchase (Complete)	\$ 300,659		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 300,659	\$ 300,659	\$ -
Fleet Rental Services (Complete)	\$ -		\$ -	\$ -	\$ 203,519	\$ -	\$ -	\$ 203,519	\$ 203,519	\$ -
TOTAL	\$ 250,000,000	\$ 80,000,000	\$ 4,929,300	\$ 1,683,379	\$ 421,467	\$ 5,053,316	\$ 88,686	\$ 342,176,148	\$ 318,765,906	\$ 23,410,242

8. UW Student Housing and Dining



Original Project Budget \$210,308,891 (a)
Adjusted Project Budget \$290,308,391 (d)

Table 8.1: Funding- Student Housing and Dining

<u>Funding Sources:</u>	<u>Original Anticipated:</u>	<u>Actual:</u>
UW – Housing Reserve Account	8,681,675.00	
UW – Construction Reserve Account	2,143,000.00	
Other Anticipated Costs- Funding TBD	199,484,216.00	
UW – Housing Bonds and Other		210,308,891.00
State Appropriation 2023, SF0146, Enrolled Act 84, Section 067, Section 11(a)		80,000,000.00
Total Project	210,308,891.00	290,308,891.00

Original budget was \$210,308,891 and was increased to \$290,308,891 because of inflation.

Table 8.2: Project Expenses- Student Housing and Dining

(In Thousands)	Budget	Additional Funding/Adj	Use of Contingency	Adj Budget	Expenditures	Obligations	Remaining Balance
	(a)	(b)	(c)	(a+b+c)=(d)	(e)	(f)	(d+e+f)=(g)
Construction	170,597	88,070	352	259,019	(44,711)	(214,308)	-
Contingency	9,761	1,868	(359)	11,270	-	-	11,270
Design	9,231	315	-	9,546	(7,261)	(1,711)	574
FF&E	3,585	2,496	-	6,081	-	-	6,081
Tech	1,500	-	-	1,500	(3)	-	1,497
Admin	2,865	21	7	2,893	(1,252)	(526)	1,115
Total	197,539	92,770	-	290,309	(53,227)	(216,545)	20,537

Project History Summary: Student Housing and Dining

Pre-construction Fees	\$ 349,657
Guaranteed Maximum Price (Final with South Hall added)	\$258,317,088
Change orders	\$ 352,396
TOTAL	\$259,019,141
Contract Substantial Completion Date	May 20, 2025

Project History Detail: Student Housing and Dining

Statement of Contract Amount (JE Dunn)

Original contract	Pre-construction fees	\$349,657
Amendment #2	Initial Guaranteed Maximum Price (includes pre-construction)	27,961,914
Amendment #3	Final Guaranteed Maximum Price (excludes pre-construction)	170, 246, 987
Amendment #4	South Hall added to Guaranteed Maximum Price	88,070,101
Change Order #1	Asbestos abatement on existing steam lines	289,541
Change Order #2	Cut and cap existing underground hydronic lines	30,757
Change Order #3	Leak investigation and repair chilled water lines	32,098
Adj contract		\$259,019,141

Project Update: UW Student Housing and Dining

Work Completed/In Progress:
<ul style="list-style-type: none"> • Mass excavation, soil stabilization, and deep foundation work have all commenced. • Steel erection has started on the North Hall. • Slab on grade and slab on metal deck pours have commenced on the North Hall. • Utility work is in progress under slab on the North Hall. • Sanitary sewer and domestic water line connections and new work are complete in 15th St. • South Hall foundation activities are in full swing. • Site storm sewer is complete on the west side, east side is in process.

Issues Encountered with Proposed Resolution for Each:
<ul style="list-style-type: none"> • Additional sanitary sewer work is required by request of the city engineer. Design has started and work will take place in the spring.

Work Planned for Upcoming Month:
<ul style="list-style-type: none"> • Continuation of site utilities. • South Hall deep excavation and foundation work. • North Hall steel erection and podium slab shoring and pour. • South Hall wall forming and concrete placement to continue.