



ACADEMIC AFFAIRS | PBA 2021

Office of Academic Affairs

Planning, Budget & Assessment
November 3, 2020



David Kellermann

SENIOR LECTURER AT UNSW SYDNEY

*DIGITAL EDUCATION FOR THE
POST-COVID WORLD*

**THURSDAY
NOVEMBER 5, 2020**

4:00 – 5:00 P.M.

VIRTUAL EVENT

UVU



GVU

ACADEMIC AFFAIRS | PBA 2021

College of Health & Public Service





With Gratitude!

- College realignment (healthcare) and creation of several new programs.
- Engagement with OTL for faculty development.
- Aviation parking lot and purchase/donation of 13 aircraft and 3 fire engines.
- Progress with curriculum, marketing, PLOs, strategic plan, RTP documents, etc.
- Renovations (Crime Scene House, Hangar B and Dental Hygiene Clinic, EMT/Paramedic Lab, Nursing Lab and Nursing offices).
- Creation of 4 development/fundraising case statements.
- Acquisition of 37% of total donations for CHPS/CAPS in past 18 months.

	Fall 2015	Fall 2020
Dean's Office Staff	2	Almost fully staffed
Aviation Flight Hours	11,862	17,466
Aviation Revenue	\$2,565,125	\$4,948,498
Standards/Procedures	0	37
Percentage of Growth	Lowest at UVU	Highest at UVU



Our Mission

- Provide exceptional education and training leading to essential professional qualifications.
- Prepare competent professionals who serve and protect communities through rigorous, safe, and engaging academic and practical experiences.



Complexity of CHPS





Innovations & Accomplishments

- Increased training in Civitas
- Index clean up
- 100% submission of PLOs
- Diversity training and search advocacy
- Advising campaigns to promote retention
- 100% stackability in degree programs
- Nursing bridge agreement with MTECH
- New advisory boards and after-action report requirement
- Design of Hangar C (in progress)
- Paramedic national certification pass rates have risen from 74% in 2015 to 94% in 2020
- #2 Most Affordable Online Colleges for Aviation Degrees
- Resolution of UFRA financial sustainability with UVU and the state
- 98%-99% approval of UFRA instructors & courses
- 1,792 certifications by UFRA
- Creation of Flexible Learning Committee
- 20 new online courses and review of 30 others for major redesign and content improvement
- Creation of Safety/Risk Management Committee
- RFID tracking for capital assets
- Rank advancement pilot in Digital Measures
- Development of facilities plan
- New case statements (DH, NSS, RCA)
- Creation of development report for each department
- PA lab under construction
- 21 HEA fellows (highest at UVU)
- 100% pass rate for Respiratory Therapy Board Exam
- Instructional video for Early Alert
- Award of Excellence – Piper Seminole Design (UCDA 2020)



OTL Training

- CHPS has made OTL training a priority again in 2019/2020:
 - Participation of 53 full-time faculty
 - Participation of 42 adjunct faculty
 - Participation of 14 in SCOT
 - 11 All-Aboard certifiers
 - 28 OTL certifiers (77% of total faculty in college) including Dean, Associate Dean, and both Assistant Deans



Enrollment

- Up from 10,606 in 2019 to 11,598 in 2020
 - Highest % in Fall 2019 and Fall 2020
 - Second highest % in Fall 2018
- FTE up from 2,038 in 2015 to 2,326 in 2019
- Sections up from 526 in 2019 to 602 in 2020
- 288 sections w/ 90%+ fill rate (3rd highest at UVU)

College / School	% Current / Last Year
AA	98.2%
CET	102.9%
CHPS	109.4%
CHSS	101.4%
COS	99.6%
SOA	95.7%
SOE	105.2%
UC	74.5%
WSB	101.9%





Persistence and Retention

CHPS persistence rate is **80%** overall and we continue to improve.

Pilot Project -

- Examined high DFW rates in specific courses
- Initiated calls to students in Spring 2020
- ESWF 1000 went from an average of **24% DFW to 14%**
- CJ 1010 went from an average of **35% DFW to 25%**
- HLTH 1100 had **27 more completions**



Strategic Plan

Objective 1: Administrative Excellence (financially savvy departments)

Objective 2: Enhance and Develop Programs (accreditation)

Objective 3: Student Retention and Completion (4-semester Wolverine plans)

Objective 4: Exceptional Facilities and Equipment (R&R equipment)

Objective 5: Excellence in Teaching and Learning (online)

Objective 6: Safety and Risk Management (risk management plan)

Objective 7: Development (increased donor recognition)

Objective 8: Diversity and Inclusion (scholarships and CHPS Excellence Awards)

Quality Improvement Initiative: Data Analytics Project (Data Academy participation)

This aligns closely with UVU's 8 Strategic Initiatives in Vision 2030.



Resource Acquisition and Efficiencies

▪ Physician Assistant	\$295,372	▪ Perkins (Nursing)	\$60,916
▪ Intermountain Healthcare	\$40,000	▪ Perkins (Nursing)	\$57,632
▪ Watkins Charitable Foundation	\$30,000	▪ Perkins (Res. Therapy)	\$37,013
▪ doTERRA	\$15,265	▪ Perkins (Nursing)	\$35,245
▪ Revere Health	\$10,000	▪ Perkins (Dental Hygiene)	\$20,356
▪ Revere Health	\$5,000	▪ Perkins (RCA)	\$9,410
▪ Halvorsen Foundation	\$5,000	▪ Perkins (Dental Hygiene)	\$6,520
▪ Jim and Valora Crandall	\$5,000	▪ Perkins (Nursing)	\$1,815
▪ Fire Engine	\$5,000	▪ Perkins (Dental Hygiene)	\$1,366
▪ Firefighters Credit Union	\$5,000	▪ Perkins (Nursing)	\$1,031
▪ Action Target	\$5,000	▪ Perkins (Nursing)	\$301
▪ Intermountain Healthcare	\$5,000	▪ POST (Policy 357 change)	\$12,000
▪ Cambodia Project	\$1,500		
	\$427,137		\$242,239

We just received \$329,770 grant
for a FEMA Fire Training Center!



2017-2019 PBA Allocations

Thank You:

- Net Adds, Summer ICHE, Hourly Faculty
- MPS and Nursing Faculty
- PA Faculty and Staff
- DH Chairs and RT Equipment
- DH Staff

Delayed due to Aircraft Delivery Schedule and Covid-19:

- Aviation Mechanic
- Aviation Certified Flight Instructor



Base Requests - Faculty

1. PCH FT Lecturer	\$57,000+benefits (\$101,885)
2. NSS TT Faculty (Intelligence track)	\$76,000+benefits (\$119,091)
3. FS TT Faculty (Investigation track)	\$64,000+benefits (\$104,343)
4. AV TT FT Faculty	\$70,000+benefits (\$113,519)
5. AV TT FT Faculty	\$70,000+benefits (\$113,519)

Vision 2030 Strategy 1B: Enhance Educational Quality



PCH FT Lecturer #27

Base Faculty #1: \$57,000 plus benefits = \$101,885 (see request #28 also)

- HLTH 1100 and NUTR 1020 have had 100 students per class (while the average online course at UVU has 32 students).
- PCH recently revised curriculum, requiring roughly 30 assignments per semester.
- With 100 students in a class, a professor must grade 2,000-3,000 assignments.
- We have 642 more enrollments than last Fall (117% growth rate).
- We need 19 sections covered; 5 by lecturer and the remainder by adjuncts.

****PCH has received \$0 in the last 3 years in spite of significant growth.



CJ FT TT Faculty #38 and #37

Base Faculty #2: \$76,000 plus benefits = \$119,091

- NSS enrollments: 13 in 2016, to 94 in 2017, to 191 in 2018, to 352 in 2019, 490 in 2020. Estimate for entire year is 600-700.
- NSS currently has 1 FT faculty member, 10 adjuncts, and is borrowing 3 faculty from other units.
- NSS needs expertise in the national intelligence area and desires additional online courses.

Base Faculty #3: \$64,000 plus benefits = \$104,343

- FS has 1 FT faculty in our Investigative Track, along with 4-6 adjuncts each semester.
- Forensic Science/Investigative enrollment has increased dramatically in recent years:
 - Majors - 2012: 80; 2013: 89; 2014: 89; 2015: 122; 2016: 143.
 - Majors and minors - 2014-2015: 167; 2015-2016: 198; 2016-2017: 228; 2017-2018: 213; 2018-2019: 248; 2020: 251.
 - 171 students pursuing the Investigative Track currently.
- UVU now offers a concurrent enrollment course, creating additional strains.

Support Enrollment Growth; Retention & Completion; Enhance Student Success



AV FT TT Faculty #29 and #40

Base Faculty #4 & #5: \$70,000 plus benefits = \$113,519

- Aviation may lose one line due to transition of Dean.
- Aviation has historically focused on educating pilots.
- Department must expand offerings in aerospace (air traffic control, safety/human factors, aviation management, urban air mobility/drones, etc.).
- Aviation has 1,093 students (35% of CHPS).
- The student to faculty ratio is highest in CHPS (121:1 as compared to average of 36:1).



Base Requests - Other

1.	PCH Adjuncts	\$41,200
2.	CHPS Operating Funds	\$60,000
3.	PCH Health Admin Salary Adjust.	\$80,000
4.	Nursing Sim Technician	\$49,840+benefits (\$86,440)

Vision 2030 Strategy 1B: Enhance Educational Quality



Adjuncts #28 and Operating Funds #30

PCH Adjunct Base Other #1: \$38,710 (see also request #27)

- HLTH 1100 and NUTR 1020 have 100 students per class (average UVU online course is 32).
- We need 19 sections and 46 ICHE to provide solid flexible learning opportunities.
- Adjuncts have quit due to excessive workload.
- NOTE: PCH has received \$0 in the last 3 years in spite of 10%+ growth.

CHPS Strategic Operations Base Other #2: \$60,000

- CHPS returned \$169,000 in operational/contingency funds for 1% budget reduction.
- We are starting to run a deficit in spite of additional cuts we have made.
- CHPS has several strategic goals which align with Vision 2030:
 - PT web developer to update our 24+ program websites and improve our marketing.
 - PT storyteller to attract and retain first generation students and increase our development efforts.
 - PT equipment to track essential inventory and supplies for engaged learning activities.
 - PT advisor to meet student needs and improve retention.
 - PT data analyst to make evidence-based decisions.
 - Success



Healthcare Admin. Salary Adjust. #31

Base Other #3: \$80,000

- Our Healthcare Administration program will go live in Fall 2021 with new curriculum.
- Healthcare Administration will have an **18% growth rate** from 2018-2028 according to the DOL/BLS.
- We have had challenges hiring for the position over past 3 years.
- PCH lost a faculty to the due to salary (between \$110-\$130K).
- **2 recent candidates declined job offers.**
- Need to bump open line salary.
- Need to address inequity for current faculty member.
- **CHPS will cover this resulting in minimal salary contingency funds**



Nursing SIM Technician #45

Base Other #4: \$49,840 plus benefits = \$86,440

- Lab was renovated and curriculum has been revised.
- Simulation allows students to learn in a monitored, safe environment.
- SIM technicians prepare the physical simulation rooms and operate the high-fidelity manikins.
- SIM TECH will allow faculty members to focus on teaching, improve workloads, and reduce adjunct costs by \$1,800 a month.
- We can wait - acknowledging negative consequences.



One-Time Requests

1. Dental Hygiene Sterilization Chemiclaves	\$15,600
2. Nursing Equipment Warranty/Maintenance	\$13,096
3. EMT/Paramedic Manikins	\$22,954
4. ATR Infrared Microscope	\$16,000
5. EMT/Paramedic Manual Stretchers	\$14,238
6. Forensic Science Mass Spectrometer	\$191,508

CHPS hard-funded equipment is valued at \$3,194,398, but the college does not have R&R funds. Prior requests have not been funded over the past four years due to limited resources.

Vision 2030 Strategy 3C: Strengthen Engaged Learning



One-Time Requests (cont.)

#32 Dental Hygiene Sterilization Chemiclaves \$15,600

- Chemiclaves decontaminate instruments
- Current chemiclaves are 10 years old and break regularly
- They do not dry instruments properly

#33 Nursing Equipment Warranty/Maintenance \$13,096

- Funding required for annual warranty costs
- Covers manikins, medication cart, simulation AV system, IV pumps
- Annual costs will be \$42,902 next year (ongoing funding needed)



One-Time Requests (cont.)

#34 EMT/Paramedic Manikins \$22,954

- Current manikins are 10 years old and require frequent repair
- Parts are harder to find now
- Simulations are more important now due to Covid-19

#39 ATR Infrared Microscope \$16,000

- Current Nicolet 6700 Smart Orbit ATR is no longer being supported
- Attaches to recently acquired iN10 Infrared Microscope
- Includes new software
- Forensic enrollment has increased from 167 in 2014/15 to 251 in 2020



One-Time Requests (cont.)

#35 EMT/Paramedic Manual Stretchers \$14,238

- Existing electric stretchers have reached the end of their life cycle
- Current stretchers **will not hold a charge** and batteries are expensive
- Students can learn lifting and transport skills with manual stretchers

#46 Forensic Science Mass Spectrometer \$191,508

- Is the primary drug analysis instrument in crime scene labs
- Current mass spectrometer is **12 years old and is out of warranty**
- Three purchase options:
 - New instrument \$191,508.61
 - Refurbished instrument \$140,328.88
 - Refurbished instrument (with upgrades) \$258,820.21



Future Needs and Possibilities

- Associate Dean
 - College Clinical Coordinator
 - Respiratory Therapy Faculty
 - EMS Coordinator
- Expansion of Aviation course offerings
 - Safety and urban air mobility
 - Air traffic control
 - A&P technician
 - Expansion of Homeland Security course offerings
 - Expansion of MPS course offerings



Healthcare Opportunities

- Growth is similar to Engineering, Computing/Technology and Business
- Highest number of job openings (2,451,513) per Burning Glass
- Over 906,000 open national healthcare/hospital jobs per Glassdoor
- Utah is ranked third in the country in terms of the nursing shortage
- Utah Department of Workforce Services predicts major growth over next 10 years:
 - Nursing will have 190 openings each year (3.2%) in Provo-Orem
 - Radiology Tech. jobs will grow from 84 to 121 (4.4%) in Provo-Orem
 - Physical Therapy Asst. jobs will grow from 516 to 759 (3.2%) in the state
 - Pharm Tech. jobs will grow from 500 to 666 (3.32%) in Provo-Orem
 - Occupational Therapy jobs will grow from 58 to 76 (3.1%) in Provo-Orem
 - Chiropractor jobs will grow from 45 to 62 (3.78%) in Provo-Orem

GVU

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College of Humanities & Social Sciences





Mission Statement – Short Version

The College of Humanities and Social Sciences prepares students to be successful in life by providing general education courses and major courses designed to develop discipline-specific knowledge, critical thinking skills, and oral and written communication skills.



Mission Statement – Medium Version

The UVU College of Humanities and Social Sciences is dedicated to supporting the mission and core themes of Utah Valley University. We offer a rigorous academic experience, including engaged-learning that helps students develop valuable and transferable career skills. We support a culture of scholarship and professional accomplishment for students and faculty. The broad range of disciplines in the College (history, political science, sociology, psychology, anthropology, communication, languages, philosophy, humanities, and integrated studies) foster collaborative and interdisciplinary work. Work in these disciplines provides insights into life and governance in societies past and present, into how human beings interact and form evolving relationships, and into the ideas and forms that constitute human culture and identity. We respect differences, and work to maintain a supportive, and inclusive environment. All of our efforts are couched in a firm commitment to ethical behavior, academic freedom, collaborative decision making and responsible use of public resources.



Mission Statement – Long Version

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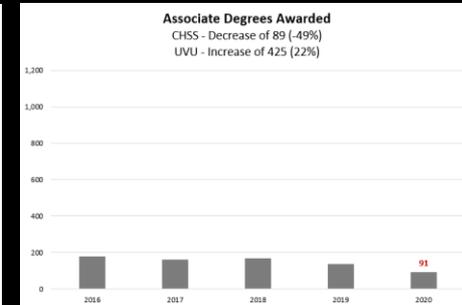
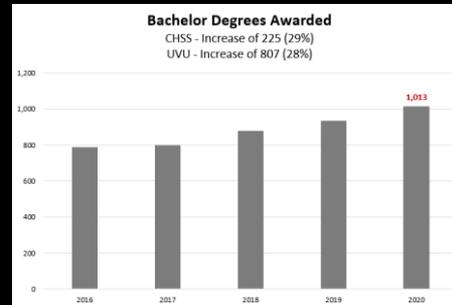
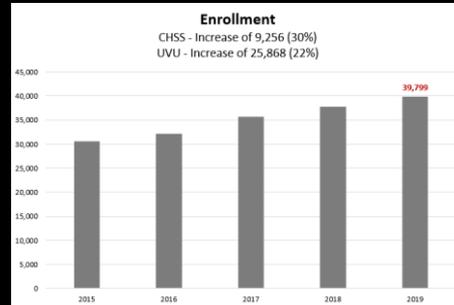
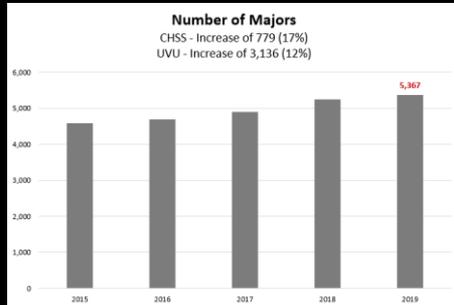
Strategic Plan

- **Objective: Student Success***
 - Academic Success
 - University Experience
 - Lifelong Learning
- **Objective: Inclusion**
 - Accessible Education
 - Intercultural Competence
 - Array of Courses and Programs
- **Objective: Engaged Learning**
 - Engage Students
 - Civic Engagement
- **Objective: Rigor**
 - Outstanding Teaching
 - Culture of Scholarship
 - High Quality Programs and Services

*The objective of student success can be met by retaining faculty in high-need areas, hiring key faculty for the new master's degree, and understanding data and areas where the most impact can be realized.



Majors, Enrollment, and Degrees Awarded



<https://www.uvu.edu/ir/performance-indicators/academic-programs/enrolled.html#students>
<https://www.uvu.edu/ir/performance-indicators/academic-programs/fulltime.html#enrollments>
<https://www.uvu.edu/ir/performance-indicators/academic-programs/completions.html#graduates>



PBA 2018- 2020 Accountability

English & Literature

- 7 new faculty hired (all Critical Needs Lecturers)
- Department fall 2020 fill rate: 92%

Behavioral Science

- 1 new staff hired as MFT Clinical Coordinator
- 17 new faculty hired (R401, PBA requests, & Critical Needs Lecturers)
- Department fall 2020 fill rate: 65%-90%

Communication

- 1 new staff hired as Speech Lab Manager
- 5 new faculty hired (PBA requests & Critical Needs Lecturers)
- Department fall 2020 fill rate: 87%

Philosophy & Humanities

- 1 new faculty (Critical Needs Lecturer)
- Department fall 2020 fill rate: 90%

Integrated Studies

- 1 new faculty hired (Integrated Studies and Languages & Cultures joint appointment)
- Department fall 2020 fill rate: 64%

Languages & Cultures

- 1 new staff hired as Language Lab Manager



PBA 2018- 2020 - Accountability

Appropriated base funding for:

Marriage and Family Therapy

- New graduate program in Marriage & Family Therapy
- Establish MFT Clinic providing internship opportunities for program students and low-cost counseling for the community

Family Studies

- New BS in Family Studies
- PT staff to support the expansion of the Stronger Families program to five sites with 50+ families and 130+ internships for UVU and BYU students

Masters in Social Work

- Additional courses and sections in MSW program to accommodate advanced standing graduate students, maintain student to faculty ratio required by accreditation, and expand program offerings to add depth to the program



Vision 2030 - Achieve

1.B. "Assess and remove barriers at every stage of the student life cycle...curriculum alignment issues"

1.C. "Support completion through comprehensively designed curriculum and services...redesign curriculum aimed at stackable credentials and pathways"

New Degrees

Fall 2017	Psychology BA/BS/Minor Master of Social Work
Fall 2018	French Education BA Interdisciplinary Gerontology CP Family Science BA/BS/Minor
Fall 2019	Spanish for Professions – Translation/Interpreting Minor Master of Marriage and Family Therapy
Fall 2020	Humanities and Social Sciences AA/AS
Fall 2021	Public Relations and Strategic Communication BA/BS/Min Master of Clinical Mental Health Counseling

Streamlined Degrees

Fall 2020	Anthropology BA/BS Sociology BA/BS Humanities BA Spanish BA Family Science BA/BS
Fall 2021	Applied Communication Political Science BA/BS

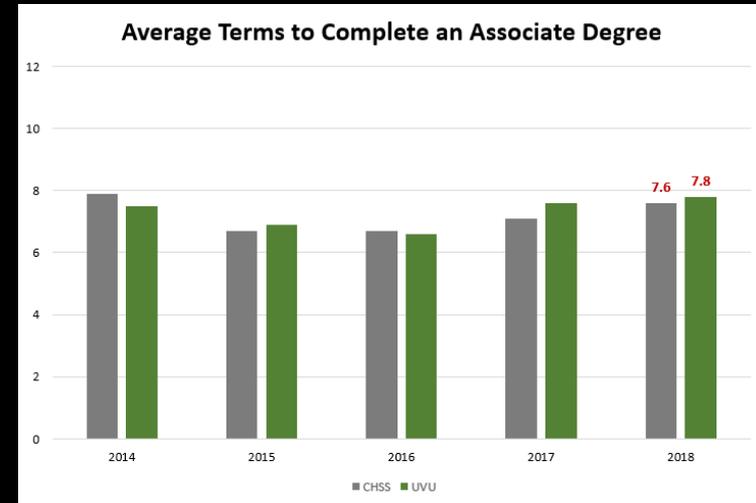
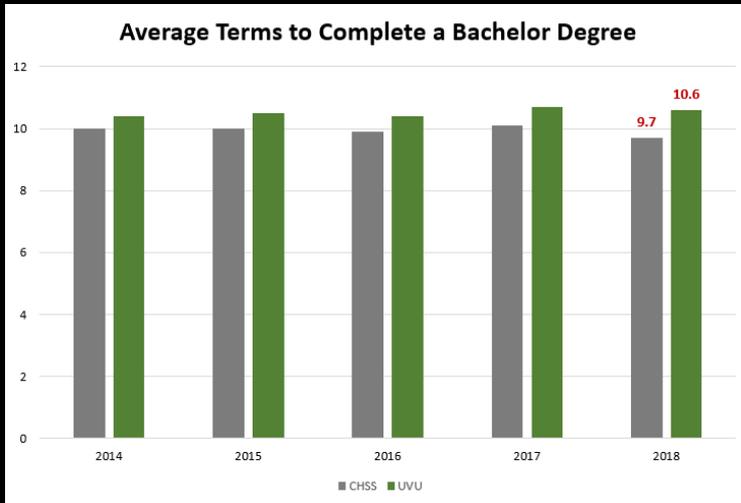
Deletions

Fall 2020	Behavioral Science BA/BS
Fall 2021	History and Political Science AA/AS Communication AA/AS Integrated Studies AA/AS
Fall 2022	Behavioral Science AA/AS



Time to Completion

No Change in the Trend... Yet



<https://www.uvu.edu/ir/performance-indicators/academic-programs/years.html#graduates>



Efficiencies and Affordability

- MSW – added summer offerings to allow students more electives and specialized experiences
- Moved two open faculty lines from Integrated Studies to English & Literature to decrease ENGL 1010 & 1020 wait lists
- Moved one open faculty line from Anthropology to Psychology to accommodate student demand
- Hired part-time IA coordinator to hire and train IAs for large sections and to bring consistency to IA faculty support
- Hired language lab manager who instituted new training curriculum for language tutors to provide more robust tutoring. Lab manager handled the move to remote tutoring in response to COVID while still maintaining quality service for students and faculty.
- Language lab and Speech lab both moved online for COVID—made possible by these ft lab managers.
- Moved Admin II line to Advisor I line.



PBA Requests

Request Type	Brief Description	Cost
R401	2 FT faculty, 1 FT staff for Clinical Mental Health Counseling	\$308,622
New FT Staff	Support IAs and do analytics for supported courses	\$62,301
Reassignment of existing FT faculty positions	Request to keep 7 critical needs lecturer lines rather than have them return to Academic Affairs	\$0 Replacement cost \$610,848
One-time requests	N.A. – will use carryforward to address these needs within our college	\$0



Appropriated Base



CMHC Associate Director/Clinical Coordinator

Request #133: \$91,662

- R401 commitment for 2021-2022
- Assists program and clinical directors in all aspects of the CMHC program
- Assists with accreditation processes
- Assists with evaluation processes



Instructional Assistant Coordinator

Request #131: \$62,301

- Move from PT to FT
- Work with 71 IAs, support 40 sections
 - Additional English: 23 IA's, 52 faculty, 166 sections
- Hire and train all IAs, monitor workload
- Examine barriers to student success and completion in these courses and develop strategies to resolve barriers via analytics



Full-Time Faculty Requests



CMHC Tenure-Track Faculty (2)

Requests #120, 121: (each \$108,480) \$216,960

- R401 commitment for 2021-2022
- Teach both graduate level CMHC courses and undergraduate level Psychology courses
- Projected enrollment in the program – 24 students
- Coordinated with SOE School Counseling emphasis



Philosophy Lecturer

Requests #94: \$90,775

- Replace Critical Needs line with ongoing position
- Taught 12 sections and 696 students
- Enrollment growth per year = 182
- Fall 2020 = 32 adjunct faculty teaching 67 sections
 - Ethics & Values (87% fill rate)



Communication Lecturer

Requests # 93: \$88,953

- Replace Critical Needs line with ongoing position
- Taught 10 sections and 373 students
- Enrollment growth per year = 8
- Fall 2020 = 36 adjunct faculty teaching 67 sections
 - Communication (87% fill rate)



English Lecturers (4)

Requests #88, 89, 90, 91: (each \$84,637) \$338,692

- Replace Critical Needs lines with ongoing positions
- Taught 34 sections and 697 students
- Enrollment growth per year in English= 51
- Fall 2020 = 52 adjuncts teaching 135 sections
 - English & Literature (92% fill rate)



Psychology Lecturer

Requests #92: \$92,428

- Replace Critical Needs line with ongoing position
- Taught 10 sections and 313 students
- Enrollment growth per year in psychology = 497
- Fall 2020 = 42 adjunct faculty teaching 83 sections
 - Psychology (82% fill rate)



PBA Requests

Request Type	Brief Description	Cost
R401	2 FT faculty, 1 FT staff for Clinical Mental Health Counseling	\$308,622
New FT Staff	Support IAs and do analytics for supported courses	\$62,301
Reassignment of existing FT faculty positions	Request to keep 7 critical needs lecturer lines rather than have them return to Academic Affairs	\$0 Replacement cost \$610,848
One-time requests	N.A. – will use carryforward to address these needs within our college	\$0

GVU

ACADEMIC AFFAIRS | PBA 2021

College of Science



College of Science



- Progress in the past year toward Vision 2030 and the COS Strategic Plan
- Base funding requests
- One-time funding requests



Introduction to the College

Biology



[LEARN MORE](#)

Chemistry



[LEARN MORE](#)

Earth Science



[LEARN MORE](#)

Exercise Science



Mathematics



Physics





Introduction to the College

Our Mission: The College of Science builds the scientific economy and scientific literacy of the Wasatch Front region and beyond.



Introduction to the College

Biology



Michaela Gazdik-Stofer

Chemistry



Merrill Halling

Earth Science



Nathan Toke'

Exercise Science



Andrew Creer

Mathematics



Bob Palais

Physics



Joe Jensen



Introduction to the College



Kerri Howlett



Jason Slack



Fern Caka



Jim Murphy



Jamie Winn



Progress in the Past Year Toward Vision 2030

Strategy #1: Enhance Student Success and Accelerate Completion of Meaningful Credentials

- MATH 1050 success
 - Fall 2018 63% of students earned C- or better
 - Fall 2019 75% of students earned C- or better

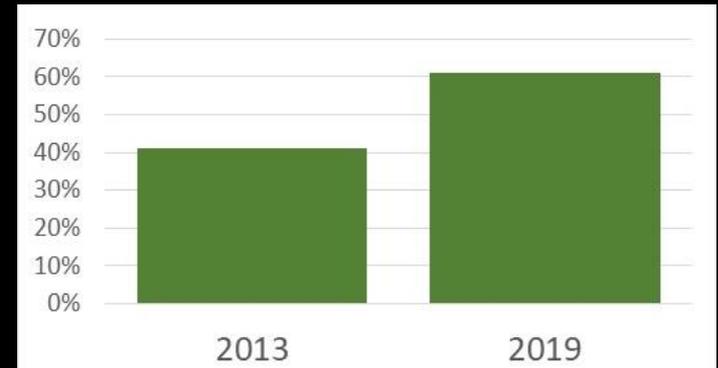


Progress in the Past Year Toward Vision 2030

Strategy #1: Enhance Student Success and Accelerate Completion of Meaningful Credentials

- MATH 1050 success
- QL completion
 - In 2013 only 41% of Sophomore students had completed QL
 - By 2019 that had increased to 61%

Sophomore completion of QL





Progress in the Past Year Toward Vision 2030

Strategy #1: Enhance Student Success and Accelerate Completion of Meaningful Credentials

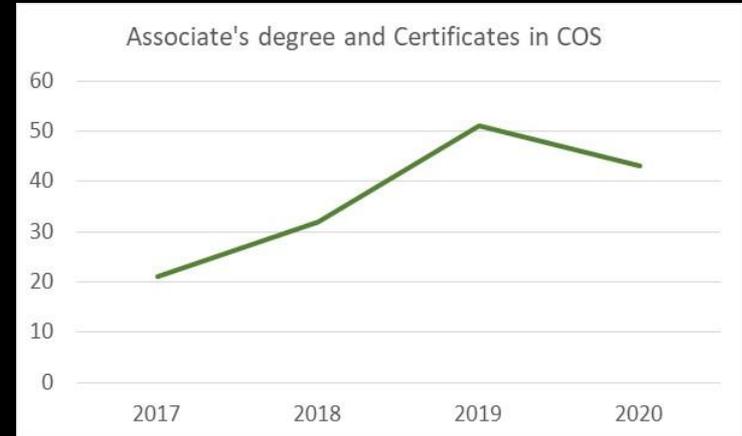
- MATH 1050 success
- QL completion
- Math course scheduling
 - Dedicated math course scheduler now ensures adequate # of course sections and sections at times that work for students



Progress in the Past Year Toward Vision 2030

Strategy #1: Enhance Student Success and Accelerate Completion of Meaningful Credentials

- MATH 1050 success
- QL completion
- Math course scheduling
- Pre-bachelor completions
 - Associate's degrees
 - Certificate of Proficiency in GIS





Progress in the Past Year Toward Vision 2030

Strategy #2: Improve Accessibility, Flexibility, and Affordability for All Current and Future UVU Students

- Greater online abilities - All faculty position advertisements now include experience with online teaching among the qualifications



Progress in the Past Year Toward Vision 2030

Strategy #2: Improve Accessibility, Flexibility, and Affordability for All Current and Future UVU Students

- Greater online abilities
- Expanded Summer Bridge outreach - Moving the Latino Scientists of Tomorrow Summer to live-stream allowed us expand the program from 30 students to 50 and to go state-wide





Progress in the Past Year Toward Vision 2030

Strategy #2: Improve Accessibility, Flexibility, and Affordability for All Current and Future UVU Students

- Greater online abilities
- Expanded Summer Bridge outreach
- Course fee adjustments help 2,400 students save a total of about \$46,000 per year.



Progress in the Past Year Toward Vision 2030

Strategy #3: Strengthen Partnerships for Community, Workforce, and Economic Development

- Community partnerships
 - Industry: Nu Skin and Unicity
 - Post-graduate programs: Noorda College of Osteopathic Medicine
 - Informal education: Thanksgiving Point
 - Governments: Vineyard





Progress in the Past Year Toward Vision 2030

Strategy #3: Strengthen Partnerships for Community, Workforce, and Economic Development

- Community partnerships
- Engaged learning
 - \$250,000 of COS funds devoted to student research
 - About \$170,000 from OEL to support student research
 - \$4,667,000 from 17 external grants to support student research
 - Over 300 students active in research





Progress in the Past Year Toward Vision 2030

Strategy #1: Enhance Student Success and Accelerate Completion of Meaningful Credentials

- Improved math success
- Increased attainments of certificates and associate's degrees

Strategy #2: Improve Accessibility, Flexibility, and Affordability for All Current and Future UVU Students

- Greater online abilities
- Expanded Summer Bridge outreach
- Course fee savings.

Strategy #3: Strengthen Partnerships for Community, Workforce, and Economic Development

- Building community partnerships
- Expanding engaged learning



Base Funding Requests – Three Laboratory Managers (\$254,432)

The challenges:

- The Physiology, Biology I, and Physics programs each offers dozens of lab sections each week (37, 36, and 26, respectively)



Base Funding Requests – Three Laboratory Managers

The challenges:

- The Physiology, Biology I, and Physics programs each offers dozens of lab sections each week (37, 36, and 26, respectively)

UVU BANNER SERVICES																		
Main Menu	Faculty Services	Enrollments in Courses for a Term																
12502 BIOC 1615 201	A	Y	College Biology I Laboratory	24.AUG.2020	18.DEC.2020	T	10:00 am-12:50 pm	50	152	Hirsch Dodge, Kelsey May	S	1	24	24	0	0	0	0
20889 BIOC 1615 262	A	Y	College Biology I Laboratory	24.AUG.2020	18.DEC.2020	W	10:00 am-12:50 pm	50	152	Patty, Christopher Dale	S	1	22	24	2	0	0	0
12507 BIOC 1615 263	A	Y	College Biology I Laboratory	24.AUG.2020	18.DEC.2020	F	07:00 am-09:50 am	50	152	Wilbur, Nicholas Adam	S	1	26	24	4	0	0	0
12503 BIOC 1615 264	A	Y	College Biology I Laboratory	24.AUG.2020	18.DEC.2020	F	07:00 am-09:50 am	50	152	Graham, Brad V	S	1	23	24	1	0	0	0
26415 BIOC 1615 265	A	Y	College Biology I Laboratory	24.AUG.2020	18.DEC.2020	T	10:00 am-12:50 pm	50	160	Wilbur, Nicholas Adam	S	1	23	24	1	0	0	0
19146 BIOC 1615 266	A	Y	College Biology I Laboratory	24.AUG.2020	18.DEC.2020	W	10:00 am-12:50 pm	50	160	Blumel, Daniel J. S.	S	1	24	24	0	0	0	0
25137 BIOC 1615 267	A	Y	College Biology I Laboratory	24.AUG.2020	18.DEC.2020	R	10:00 am-12:50 pm	50	160	Demmitt-Rice, Courtney Elizabeth	S	1	23	24	1	0	0	0
27128 BIOC 1615 268	A	Y	College Biology I Laboratory	24.AUG.2020	18.DEC.2020	R	10:00 am-12:50 pm	50	152	Holden, Alexandra Elizabeth	S	1	24	24	0	0	0	0
12205 BIOC 1615 269	A	Y	College Biology I Laboratory	24.AUG.2020	18.DEC.2020	F	10:00 am-12:50 pm	50	152	Robinson, Rusty Winda	S	1	21	24	3	0	0	0
23280 BIOC 1615 210	A	Y	College Biology I Laboratory	24.AUG.2020	18.DEC.2020	F	10:00 am-12:50 pm	50	160	Lane, Jason K	S	1	23	24	1	0	0	0
26416 BIOC 1615 291	A	Y	College Biology I Laboratory	24.AUG.2020	18.DEC.2020	T	01:00 pm-03:50 pm	50	152	Hirsch Dodge, Kelsey May	S	1	21	24	3	0	0	0
23136 BIOC 1615 292	A	Y	College Biology I Laboratory	24.AUG.2020	18.DEC.2020	W	01:00 pm-03:50 pm	50	152	Blumel, Daniel J. S.	S	1	24	24	0	0	0	0
23138 BIOC 1615 293	A	Y	College Biology I Laboratory	24.AUG.2020	18.DEC.2020	R	01:00 pm-03:50 pm	50	152	Ding, Samuel Warren Edward	S	1	22	24	2	0	0	0
26273 BIOC 1615 214	A	Y	College Biology I Laboratory	24.AUG.2020	18.DEC.2020	R	01:00 pm-03:50 pm	50	160	Holden, Alexandra Elizabeth	S	1	19	24	5	0	0	0
17386 BIOC 1615 215	A	Y	College Biology I Laboratory	24.AUG.2020	18.DEC.2020	F	01:00 pm-03:50 pm	50	152	Robinson, Rusty Winda	S	1	24	24	0	0	0	0
27431 BIOC 1615 216	A	Y	College Biology I Laboratory	24.AUG.2020	18.DEC.2020	F	01:00 pm-03:50 pm	50	160	Davis, Brandon M	S	1	22	24	2	0	0	0
23135 BIOC 1615 217	A	Y	College Biology I Laboratory	24.AUG.2020	18.DEC.2020	T	04:00 pm-06:50 pm	50	152	Garrett, Heather Holyoak	S	1	18	24	6	0	0	0
23130 BIOC 1615 218	A	Y	College Biology I Laboratory	24.AUG.2020	18.DEC.2020	R	04:00 pm-06:50 pm	50	152	McIntosh, Richard Daan	S	1	11	24	13	0	0	0
26274 BIOC 1615 219	A	Y	College Biology I Laboratory	24.AUG.2020	18.DEC.2020	F	04:00 pm-06:50 pm	50	160	Robinson, Rusty Winda	S	1	22	24	2	0	0	0
12504 BIOC 1615 260	A	Y	College Biology I Laboratory	24.AUG.2020	18.DEC.2020	W	04:00 pm-06:50 pm	50	152	Hughes, Meghan E	S	1	21	24	3	0	0	0
26187 BIOC 1615 292	A	Y	College Biology I Laboratory	24.AUG.2020	18.DEC.2020	T	01:00 pm-03:50 pm	50	160	Jones, Allyn Christine	S	1	20	24	4	0	0	0
26817 BIOC 1615 293	A	Y	College Biology I Laboratory	24.AUG.2020	18.DEC.2020	W	01:00 pm-03:50 pm	50	160	Jones, Allyn Christine	S	1	22	24	2	0	0	0
29360 BIOC 1615 294	A	Y	College Biology I Laboratory	24.AUG.2020	18.DEC.2020	T	04:00 pm-06:50 pm	50	160	Jones, Allyn Christine	S	1	17	24	7	0	0	0
29351 BIOC 1615 295	A	Y	College Biology I Laboratory	24.AUG.2020	18.DEC.2020	W	04:00 pm-06:50 pm	50	160	McIntosh, Richard Daan	S	1	16	24	8	0	0	0
30822 BIOC 1615 296	A	Y	College Biology I Laboratory	24.AUG.2020	18.DEC.2020	F	10:00 am-12:30 pm	50	147	Patty, Christopher Dale	S	1	24	24	0	0	0	0
31881 BIOC 1615 297	A	Y	College Biology I Laboratory	24.AUG.2020	18.DEC.2020	F	01:00 pm-03:30 pm	50	147	Lane, Jason K	S	1	26	24	4	0	0	0
31836 BIOC 1615 298	A	Y	College Biology I Laboratory	24.AUG.2020	18.DEC.2020	R	07:00 am-09:50 am	50	152	Holden, Alexandra Elizabeth	S	1	23	24	1	0	0	0
31898 BIOC 1615 299	A	Y	College Biology I Laboratory	24.AUG.2020	18.DEC.2020	F	04:00 pm-06:30 pm	50	160	Pack, Riley Dean	S	1	7	24	17	0	0	0
26451 BIOC 1615 302	A	Y	College Biology I Laboratory	24.AUG.2020	18.DEC.2020	R	07:00 pm-09:50 pm	50	152	Miller, Julie Ann	S	1	14	22	8	0	0	0



Base Funding Requests – Three Laboratory Managers

The challenges:

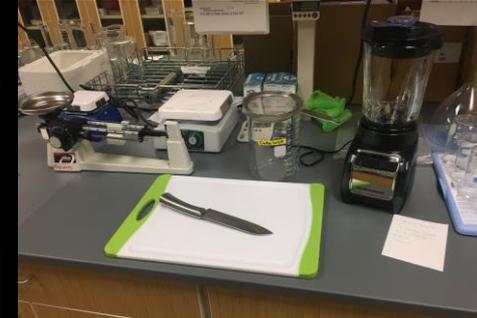
- The Physiology, Biology I, and Physics programs each offers dozens of lab sections each week (37, 36, and 26, respectively)
- For each meeting of each lab class, someone must set out the needed supplies and analytical equipment.



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- All those supplies and pieces of equipment must be stored, maintained, replaced, etc.



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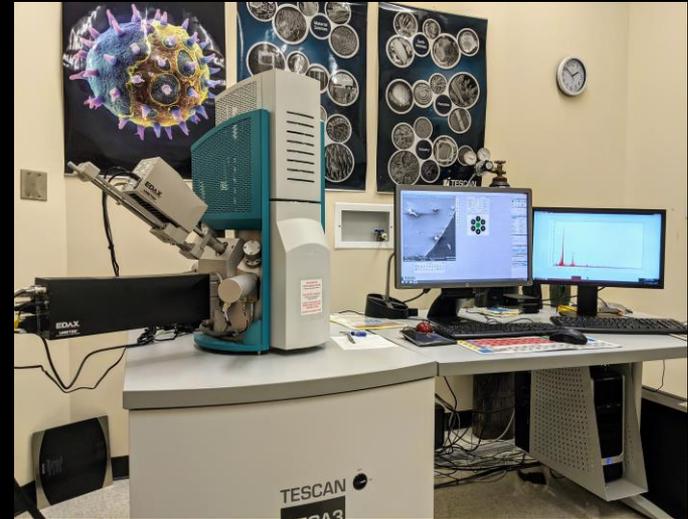




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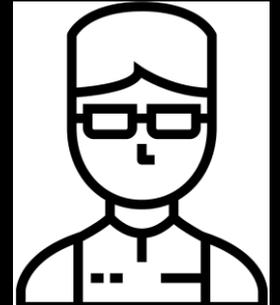
- The Physiology, Biology I, and Physics programs each offers dozens of lab sections each week (37, 36, and 26, respectively)
- For each meeting of each lab class, someone must set out the needed supplies and analytical equipment.
- All those supplies and pieces of equipment must be stored, maintained, replaced, etc.
- Demand for all these lab courses is growing with the growth of health sciences and engineering programs.



Base Funding Requests – Three Laboratory Managers (\$254,432)

The benefits:

- Increased learning from more efficient lab setup.
- Increased learning through better consistency across lab sections.
- Equipment cost saving through more efficient storage and maintenance.





One-Time Requests (\$296,566)

- The Motivation: Our students must learn to work with professional-grade equipment



One-Time Requests

- The Motivation: Our students must learn to work with professional-grade equipment





One-Time Requests

- The Motivation: Our students must learn to work with professional-grade equipment





One-Time Requests

- The Motivation: Our students must learn to work with professional-grade **scientific** equipment

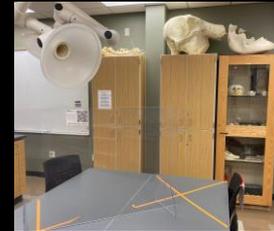


<https://www.flickr.com/photos/slaclab/24694107468>



One-Time Requests

- The need
 - Biology: Resources for greenhouse, herbarium, and zoology labs, laptops (\$110,000)





One-Time Requests

- The need
 - Chemistry: refractometers and magnetic susceptibility balances (\$27,000)





One-Time Requests

- The need
 - Earth Science: GIS lab and field gear, hydrologic well field (\$70,000)





One-Time Requests

- The need
 - Exercise Science: research treadmill and force plate (\$50,000)





One-Time Requests

- The need
 - Physics: Infrared Optical Spectrum Analyzer, (\$36,000)





One-Time Requests - \$ 296,566 to provide training on professional grade equipment



College of Science



90 Th Thorium 232.04	2 8 18 32 18 10 2	79 Au Gold 196.97	2 8 18 32 18 1	7 N Nitrogen 14.007	2 5 2 8 8 1	19 K Potassium 39.098	2 8 8 1
39 Y Yttrium 88.906	2 8 18 9 2	8 O Oxygen 15.999	2 6	92 U Uranium 238.03	2 8 18 32 21 9 2		

GVU

ACADEMIC AFFAIRS | PBA 2021

College of Engineering & Technology





The mission of the

College of Engineering and Technology

is to prepare students for successful careers or advanced study in a dynamic, technology-based, global environment.



Ensure Continued Student Success

- Continue with improvement of our programs to provide relevant and industry-need-based degree offerings.
- Develop new programs as deemed critical to the mission of UVU and the needs of the region.





Strengthen Ties with Industry & Community

- Seek industry-sponsored projects to engage and prepare students for practice
- Assess the changing needs of the industry and modify curricula accordingly
- Seek resources from industry



College of Engineering & Technology



Enhance Branding, Marketing, & Communications

To better inform prospective students, parents, community, and industry partners of educational and service opportunities available in the College of Engineering and Technology today.





Increase Fundraising Activities

Secure necessary resources to support our objectives





CET Departments

- Architecture and Engineering Design
- Computer Science
- Construction Technologies
- Digital Media
- Engineering (Civil, Computer, Electrical, Mechanical)
- Engineering Technology
- Information Systems and Technology
- Technology Management
- Transportation Technologies
- Culinary Arts Institute

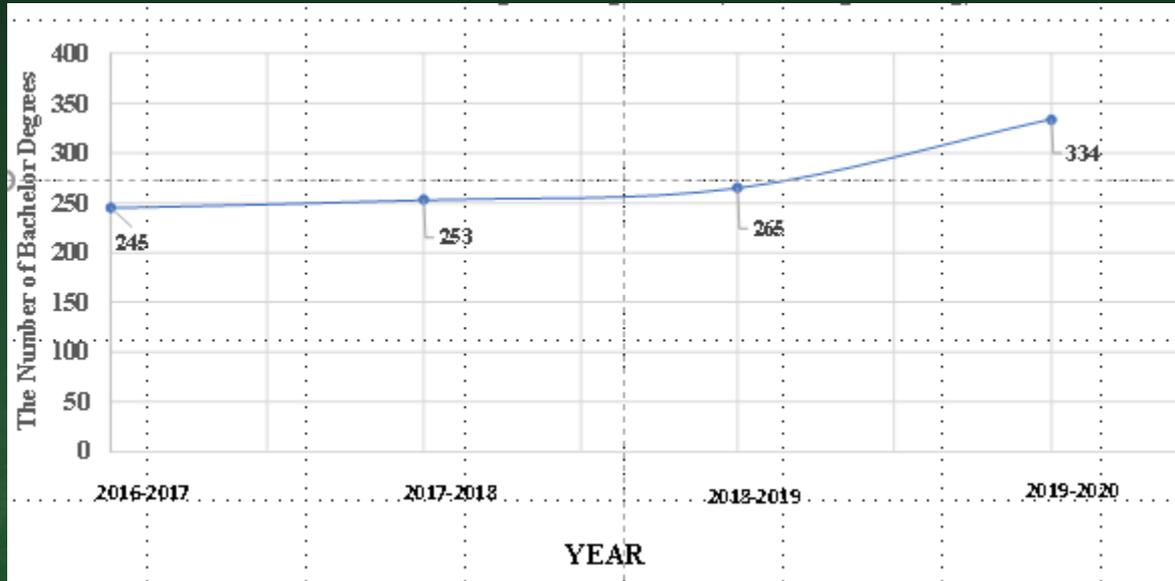


CET by the Numbers (Fall 2020)

- 5,120 Students [Female (17%); Male (83%)]
 - 1,975 Non-Traditional Students; 1,679 First Generation
 - 51.3% of our students work 21+ hours/week
- This year's growth ~ 3%
- 30 Certificates; 31 Associate Degrees; 26 Bachelor's Degrees; 1 Graduate Certificate; 2 Master's Degrees



The number of Bachelor Degrees Awarded in Computer Science, Software Engineering, IS&T, and Engineering





Student Success Flow

PRE-UVU			UVU CET EXPERIENCE					POST-UVU
K-12 OUTREACH	RECRUITMENT	CET COMMUNITIES	ADVISING AND RETENTION	FACILITIES	EXPERIENTIAL	PROFESSIONAL DEVELOPMENT/ CAREER CONNECTION	PRE-GRADUATION	ALUMNI
Technology/ SEEd PODs	High School/ Middle School Visits	Student Organizations	UVU Advising	Classrooms	Internships	Mock Interviews with CET Faculty	Certifications	Alumni Awards
Summer Camps	SLCC Visits	"I am a Techie" Tuesday	Transfer Student Advising	Labs	Undergraduate Research	Career Fairs	Fundamentals of Engineering Exam	Alumni Speakers
Engineering & Technology Week	Snow College Visits	Dean's Pizza Socials	Company Tuition Assistance	IT Services	Study Abroad	Professional Speakers	Graduate School	UVU Basketball Reunions
Utah County Challenge	Virtual CET Open House	"CET CARES"	Tutoring/ Faculty Mentors	Machine Shop	Service Learning (CET CARES)	Employer Panels	Senior Exit Survey	Alumni Surveys
	UVU Jumpstart		Probation Mentoring		Student Competitions: e.g., SkillsUSA, construction management ASME/ASCE/IEEE	Employer Surveys	CET Capstone Design Day/Order of Engineer	
K-12 OUTREACH REPORT	RECRUITMENT REPORT	CET COMMUNITY REPORT	ADVISING AND RETENTION REPORT	FACILITIES REPORT	EXPERIENTIAL REPORT	PROFESSIONAL DEVELOPMENT/ CAREER CONNECTION REPORT	PRE-GRADUATION REPORT	ALUMNI REPORT
Student Success Report (due August 1 of each year)								



SEEd Pods

A SEEd Pod is a portable classroom/laboratory that provides K-12 students access to engineering and technology equipment.





Motorola Solutions Grant

A SEEd Pod is a portable classroom/laboratory that provides K-12 students access to engineering and technology equipment.





Digital Media Department Shares The Untold Stories of Namibian Women



College of Engineering & Technology

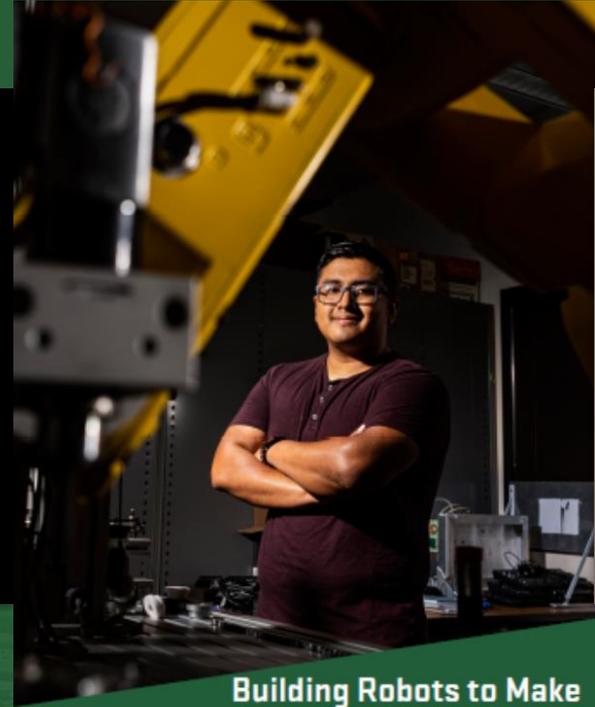


World Champion Indy Car Racer Visits CET





Building Robots to Make Life Better for Others



**Building Robots to Make
Life Better For Others**



Cybersecurity Students Win 3rd Place at Rocky Mountain
Collegiate Cyber Defense Competition

Computer Science Team Wins 2nd Place
at T3 Competition

Transportation Technology Qualify as the Only University
Team at the National Champcar Endurance Series



3D Printed Masks for First Responders





Digital Media Web Design Program Earns Top Ranking



College of Engineering & Technology



New Engineering Programs Two-Year Update





New Faculty Hires (Civil Engineering)

1. Dr. Amanda Bordelon (Pavement Design, Ph.D., University of Illinois at Urbana Champaign)
2. Dr. Tom Hales (Structures, Ph.D., University of Utah)
3. Dr. Ben Willardson (Water resources, Ph.D., University of Southern California)
4. Dr. Manahiloh Kalehwot (Geotechnical Engineering, Ph.D., Washington State University)
5. Dr. Khaled Shaaban (Transportation, Ph.D., University of Central Florida)
6. Dr. Mohamed Shwani (Structures, Ph.D., Utah State University)
7. Dr. Jim Cox (Transportation, Ph.D., University of Utah)



New Faculty Hires (Mechanical Engineering)

1. Dr. A.C. Seibi (Mechanics & Design, Ph.D., Penn State University)
2. Dr. Matthew Ballard (Thermal/Fluid, Ph.D., Georgia Tech)
3. Dr. Israd Jaafar (Materials & Manufacturing, Lehigh University)
4. Dr. Matthew Jensen (Controls/Intelligent Vehicle Systems, Ph.D. Clemson University)
5. Dr. Brett Stone (Design & Product Development, Ph.D., BYU)
6. Dr. Sean Tolman (Mechanism, Ph.D., BYU)
7. Dr. Masood Amin (Thermal/Fluid, Ph.D., BYU)



New Faculty Hires (Electrical & Computer Engineering)

1. Dr. Kazem Sohraby (Wireless Communication, Ph.D., New York University)
2. Dr. Mark Nardin (Circuit Design, Ph.D., University of Michigan)
3. Dr. M. S. Masoum (Power & Smart Grid, Ph.D., University of Colorado)
4. Dr. Ehsan Rohani (Telecommunication Systems, Ph.D., Texas A&M University)
5. Dr. Waseem Sheik (Signals & Systems, Ph.D., Purdue University)
6. Dr. M. Shekaramiz (Statistical Signal Processing, USU)
7. Dr. Afsaneh Minaie (Computer Engineering, Ph.D., University of Oklahoma)



UVU Mechanical Engineering students win the American Society for Mechanical Engineers (ASME) National Competition



College of Engineering & Technology



UVU's Concrete Canoe Impressive at Regional Competition





Civil Engineering

- UVU-Vineyard Project
- UDOT Projects
 - US 6 Eureka Project
 - US 191 Vernal Project

UTAH VALLEY UNIVERSITY

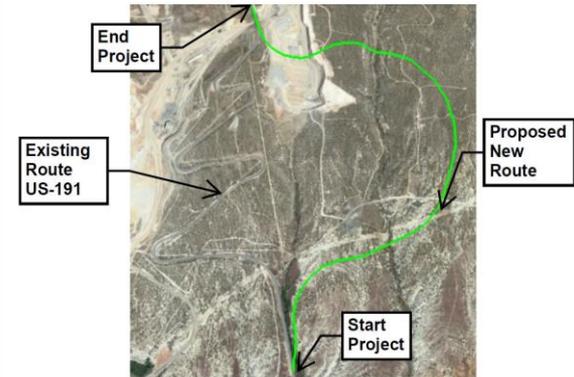
Senior Capstone Design Project

UDOT Project

US-191 Realignment

Uintah County

Length = 2.04 miles





Examples of Electrical and Computer Engineering Capstone Projects

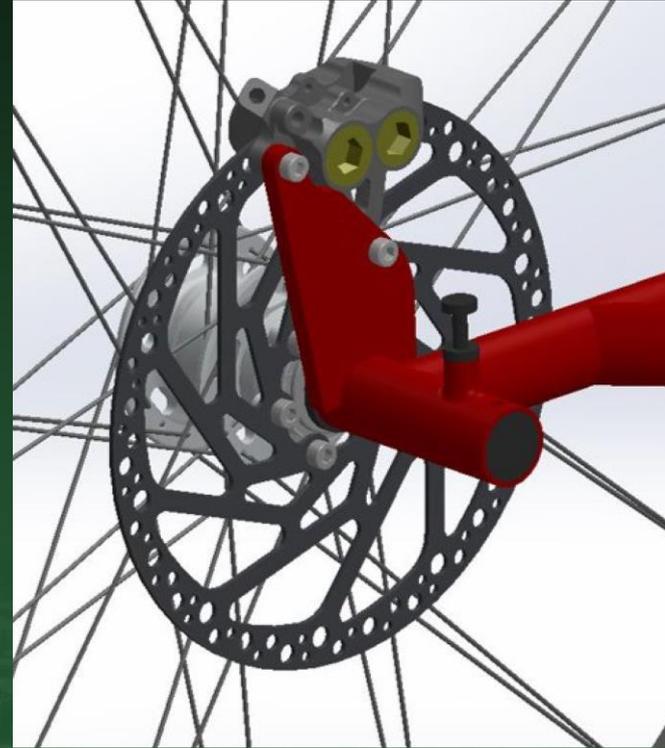
- Adaptive Video Projector Headlights
- Haptics in Aviation
- Portable Mini Splash Pad





Mechanical Engineering

- Baja SAE Project
- Wheelchair Project



College of Engineering & Technology



First Graduating Class of New Engineering Programs





A First Generation/Non-Traditional/ First Graduating Class of Civil Engineering





Space Constraint

- Space is our number one impediment to growth and to address the needs of industry and government agencies in Utah.
- The Computer Science Building was built in 2001.
- **UVU fall 2001** headcount: **19,913**
(source: USHE Historical Enrollment)
- **UVU fall 2020** headcount: ~ **41,000**;
CET fall 2020 headcount: **5,120**
- The existing Computer Science Building Assignable Square Footage (ASF): 52,946 SQFT which is 10.3 SQFT/student less than 1/10 of what you would normally find for engineering and technology programs





Timely Completion/Capacity

- A new building is needed to accommodate the growth in the computer science and engineering programs (~50% growth since 2014).
- More space is needed for faculty offices, classrooms, Machine Shop, Thermal/Fluid Lab, Hydraulics/Hydrology Lab, Wind Tunnel Lab, Engineering Design, Simulation Labs, . .
- The space that will be vacated by the computer science and engineering departments will be used by other programs such as Digital Media and Information Systems and Technology programs to address their growth as well.



ABET Accreditation

1. Civil Engineering
2. Construction Management
3. Electrical Engineering
4. Mechanical Engineering
5. Software Engineering
6. Computer Engineering
7. Computer Science
8. Information Systems
9. Information Technology

INITIAL ACCREDITATION



RE-ACCREDITATION



National Architectural Accreditation Board





Staff

Priority	Number	Title	Department	Amount
1	#96	Academic Advisor	CET Advisement Center	\$77,730
2	#249	Admin Support for Masters of CS & Cybersecurity	CS & IS&T	\$42,017
3	#145	STEM Outreach Coordinator	CET, College of Science, and School of Education	\$51,398



One-Time (will be supported by Carry-forward funds)

Priority	Number	Title	Department	Amount
1	#263	AED Remodel	AED	\$112,000
2	#133	Canyon Park Café Floor update	Culinary Arts Institute	\$90,000



Faculty

Priority	Number	Title	Department	Amount
1	#137	Assistant Professor	CAI	\$98,156
2	#155	EE Lecturer (conversion)	Engineering	~\$35,000
3	#256	Assist./Associate Prof.	AED	\$119,664
4	#140	Assist./Associate Prof.	DGM	\$113,519



Faculty

(special request proposal submitted by Linda Makin)

Priority	Number	Title	Department	Amount
1	#158	Assist./Associate Prof.	CS	\$150,389
2	#117	Assist./Associate Prof.	IS&T	\$132,513
3	#125	Assist./Associate Prof.	ET	\$119,664
4	#154	Assist./Associate Prof.	Engineering	\$144,509



Faculty

(special request proposal submitted by Linda Makin)

Priority	Number	Title	Department	Amount
5	#159	Assist./Associate Prof.	CS	\$150,389
6	#191	Lecturer/Professional in Residence	ET	\$111,675