

College of Science and Engineering Technology (COSET)

2022 STATE OF THE COLLEGE ADDRESS

Overview

Personnel and Centers

Budget

Enrollment, Graduates, and Curriculum

Research and Scholarship

Equipment and Infrastructure

Key Issues for this Year

Personnel and Centers

Deans Office Staff

New Faculty and Staff Introductions

College and University Awards

Promotion and Tenure

Distinguished and Regents' Professors

Retirements, Emeritus, Deaths

Administrative Appointments

ACE, STEM Center and QEP

Faculty and Student Highlights

Office of the Dean

Dean-John Pascarella

Anne Gaillard and DeLynn Say both moved to Provost Office

Associate Dean-Melinda Holt

Associate Dean-Li-Jen Lester (*new replacing Dr. Gaillard*)

Assistant to the Dean-Angie Burgess

Administrative Coordinator II-Shellie Armstrong (*new position replacing DeLynn Say*)

New! Administrative Associate III-Katelyn Conner

Administrative Assistant-Susan Floyd

Agricultural Sciences

Chair: Doug Ullrich

TT Assistant Professor (Agricultural Education): Dr. Mark Hainline

TT Assistant Professor (Equine Science): Dr. Rafael Martinez

TT Assistant Professor (Agricultural Engineering Technology): Dr. Chad Reynolds

Lecturer in Plant Science: Ms. Katelynn Holzapfel

Visiting Assistant Professor (Animal Science): Dr. Kristin Nicholson

Visiting Assistant Professor (Agricultural Education and Agricultural Communication): Dr. Maureen Victoria

Biological Sciences

Chair: Aaron Lynne

TT Assistant Professor (Cell and Molecular Biology): Dr. Sharmin Hasan

Visiting Assistant Professor: Dr. Jill Dewey

Assistant to the Chair: Crystal Radican (promotion)

Administrative Assistant: Harley Matthews

Chemistry

Chair: Donovan Haines

TT Assistant Professor (Physical Chemistry): Dr. Richard Schaugaard

Lab Coordinator/Lecturer: Dr. Samitha Panangala

Computer Science

Chair: Bing Zhou

TT Assistant Professor: Dr. Haodi Jiang

TT Assistant Professor: Dr. Xing Liu

Lecturer: Dr. Pat Ko

Administrative Assistant: Pamela Martin

Engineering Technology

Chair: Faruk Yildiz

TT Assistant Professor in Construction Management

- Dr. Euijin Yang
- Dr. Momen Mousa

Lecturer in Construction Management

- Mr. John WeHunt

Environmental and Geosciences

Chair: John (Pat) Harris

TT Assistant Professor (Climatology): Dr. Josh Gilliland

Mathematics and Statistics

New Chair: Paul Jung

TT Assistant Professors in Mathematics:

Dr. Chi Phan

Dr. Supun Samarakoon

Lecturers in Mathematics:

Dr. Maya Johnson

Ms. Sheri Aajul

Physics and Astronomy

Chair: Joel Walker

Lecturer in Astronomy: Mr. Jeff Wilkins

Please join me in congratulating the winners: Photos will be taken at end of meeting

Graduate Student Excellence in Research – Kayla Mowry (Ag)

Student Excellence in Teaching– Ashar Neyaz (CS)

Adjunct Faculty Excellence in Teaching– Kristi Franks (AG)

Faculty Excellence in Research – James Dent (Physics)

Faculty Excellence in Teaching– Stanley Kelley (AG)

Faculty Excellence in Service – Ryan Saucier (AG)

College of Science & Engineering Technology Excellence Awards

University Awards

SHSU Excellence in Service- Madhusadan Choudhary (Biological Sciences)

SHSU Excellence in Teaching– Renee James (Physics and Astronomy)

SHSU Staff Award-Shellie Armstrong (Dean's Office)

SHSU Academic Affairs Loyalty Award-Shellie Armstrong (Dean's Office)

Finalist for SHSU Academic Affairs Spirit Award-Anne Weathersby

Tenure and Promotion to Associate Professor

- Danhong Chen (Agricultural Sciences)
- Ulan Dakeev (Engineering Technology)
- Ross Guida (Environmental and Geosciences)

Promotion to Professor

- Qingzhong (Frank) Liu (Computer Science)
- Narasimha Karpoor Shashidhar (Computer Science)
- Falguni Mukherjee (Environmental and Geosciences)

Faculty Tenure and Promotion

Distinguished Professor

Bill Lutterschmidt, Biological Sciences

TSUS Regents Professor

Bill Lutterschmidt, Biological Sciences

5 Retirements (114 yrs of service)

Jim Tiller, Environmental and Geosciences (50 years)

Jianzhong Wang, Mathematics (28 years)

Richard Norman, Chemistry (16 years)

Mary Shelton, Mathematics (16 years)

Richard Ford, Agricultural Sciences (4 years)

We wish you the best in your retirement!



Emeritus Professor

Richard Norman, Chemistry

Deaths

Dr. Jihuang Ji (retired from COSC in 2017 after serving 27 years)

Academic Excellence-Faculty

Dr. Rafael Martinez (AGSC) named a Kike Garza USDA Fellow

Dr. Ryan Saucier (AGSC) received a National FFA VIP Award for work with National FFA Career Development Events

Dr. Juan Daza (BIOL) described the oldest fossil species of Gecko from Europe

Dt. Tami Cook (BIOL) named President of the American Society of Parasitologists

Dr. Adrian Villalta-Cerdas (CHEM) spent summer at Indianapolis Museum of Art at Newfields as part of Project MUSE on integration of art conservation science

Artwork from Dr. Meagan Hinze (CHEM) coauthored paper featured on cover of Nature

Dr. Kirk Burns (COSC) recognized as 2021 Cyberscoop award winner in area of Security Pioneer.

Dr. John Strait (ENVGEO) invited to join Advisory Board of the Muddy Waters Museum in Chicago, IL

Award named permanently for Dr. Linda Zientek (MATH) at the SERA meeting

Dr. Melinda Holt (MATH) elected to BOD of American Statistical Association

Dr. Emma Bullock (MATH) elected to board of Mixed Methods International Research Association

Dr. Joel Walker (PHYS) named a KITP “Fellow” at the Kavli Institute for Theoretical Physics at UC-Santa Barbara, spent 7 weeks in residence; Dr. James Dent named a KITP “Scholar”

COSET Faculty in Administration

Anne Gaillard (Biology), Vice Provost

Chad Hargrave (Biology), Associate Provost of Research/Chief Research Officer

Brian Loft (Mathematics), Associate Vice Provost for Grants (ORSP)

Patrick Lewis (Biology), Associate Dean, Honors College

Falguni Mukherjee (Environmental and Geosciences)-University Ombudsperson

Academic Community Engagement (ACE)



- **WHAT IS ACE?**

ACE IS A TEACHING METHOD THAT COMBINES COMMUNITY ENGAGEMENT WITH ACADEMIC INSTRUCTION.

- **BENEFITS OF ACE?**

For Faculty: directly links teaching, research and service

For Students: incorporation of course concepts with real-world learning opportunities

For Community: opportunity to interact with university – generates an overall positive influence

GOALS FOR ACE IN COSET

- STRENGTHEN EXISTING ACE OFFERINGS
- INCREASE THE NUMBER OF ACE CLASSES
- ENABLE MORE STUDENTS TO EXPERIENCE AN ACE COURSE IN COSET
- ESTABLISH DEPARTMENT-SPECIFIC VISIONS TO GUIDE THE FUTURE OF ACE

Academic Community Engagement (ACE)



FACULTY SUPPORT FOR ACE

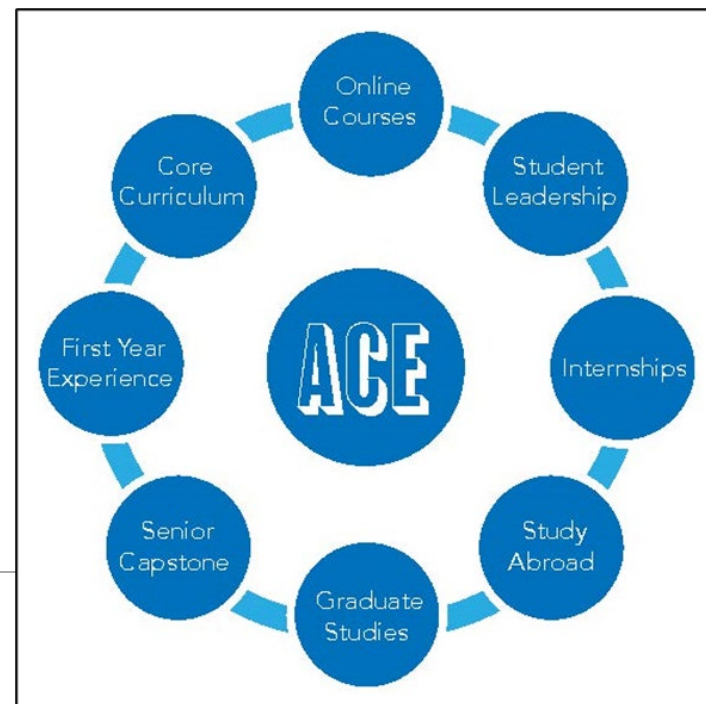
COSET ACE COLLEGE COORDINATOR

JEFF WOZNIAK (BIOLOGY)

WOZNIAK@SHSU.EDU

COSET ACE ADVISORY COMMITTEE

- Tim Pannkuk - Agricultural Sciences
- Justin Williams - Biological Sciences
- Adrian Villalta-Cerdas - Chemistry
- Cihan Varol - Computer Science
- Min Suh - Engineering Technology
- Velvet Nelson - Environmental & Geosciences
- Naomi Krawzik - Mathematics & Statistics
- Hui Fang - Physics & Astronomy



**Upcoming Faculty Training Session:
"What is ACE and How do I ACE a Class?"**

The STEM Center (2021-2022)

Prepare Students for Success

- 2022 Summer Bridge: 2 week program for students entering Calculus, Precalculus, General Chemistry I or II, Engineering Technology.
 - 101 Students registered (75 participants), 9 Faculty, 8 student TAs
- Workshops for preparing applications for REU, Graduate School, Internships
- Chemistry: 2 week Learning Frameworks curriculum during Lab time with ASC
- *Fall 2022: Facilitated Study Groups: Calculus, Chemistry*

Promote Active Learning

- Faculty mini grant program – funded 9 new projects (*new cycle in December*)
- Faculty writing retreat (November)
- April: Be(e) STEM Symposium – 52 participants, 17 speakers from SHSU + 7 TX institutions.

Engage Students in Research

- Ramps into Research training modules – first cohort in testing, regular working lunches
- *Looking for more training modules to develop!*

We want to hear from you:



QEP (Quality Enhancement Plan)- Active Learning

Faculty/Staff Participants (AGSC-4, BIOL-5, CHEM-7, COSC-10, ETEC-6, ENVGEO-5, MATHSTAT-11, PHYSASTR-3)-51 participants!

13 in the Engaging Exploration Workshop

5 in ACUE Course in Effective Teaching Practices

5 in Engaged Learning Fellowships

21 received Teaching Innovation Grants in 2021 or 21-22

6 received Odyssey Travel Grants

2 Engaging Spaces Classroom Renovations

11 participated in Teaching Dimensions Observation Protocols

5 participated in Engaging Classrooms Week

One is on the Engaging Spaces Committee

and 2 are on the Engaging Classrooms QEP development committee

Thank you for your participation!

Student Access & Success

Over 1200 High School FFA members participated in December event at SHSU

SHSU Rodeo livestreamed the Conroe rodeo with over 3900 viewers

Ellen Thompson (BIOL) won best presentation at Gulf Coast Undergraduate Research Symposium at Rice University

6 BIOL students gave presentations at the national meeting of American Society of Parasitologists

Carolyn Jess (ENVGEO) awarded TSUS Regents' Student Scholar Award in Fall 2021

Three ETEC students did internships at TESLA and two got job offers

First graduates of PhD program in summer 2022-Both secured tenure track positions in cybersecurity!

Two CS graduate students selected as finalists of the DOD Cyber Scholarship

COSET had six award winners at Sammy's

Ten physics students went to the international "Phenomenology" conference at the University of Pittsburgh in May 2022. These students have worked on NSF-supported research projects with Professors Dent, Shepherd, and Walker, and this trip is funded by their recent 2022-2024 grant.

Budget

Overview of Budget

New Initiative Funding

HEAF Funding

Additional Revenue Sources

Gifts to COSET

COSET Endowments

COSET Budget

Revenue for budget

- Enrollment dependent includes local and state tuition, departmental revenue accounts, college portion of distance learning fee (budgeted and fund balance), lab fee, and COSET program fee (budgeted and fund balance));
- Non-enrollment dependent includes HEAF funding, new initiative funding endowment distributions, annual gifts, direct and indirect grant funding, and internal funding transfers (AA, QEP, ORSP, etc).

Expenses in budget include personnel salary and benefits, departmental O&M (student wages, equipment, materials and supplies, travel), research support, and scholarships.

Budget model used is Base budget from last year + New Initiatives + HEAF (\$)

Base budget is based on assumption of flat enrollment (currently behind predictions – budget shortfall being filled with reserve funds for FY23)

Funded Budget Initiatives FY23

Last years funded initiatives included hiring TT Computer Science, Lecturer in Engineering Technology Construction Management, Lecturer in Mathematics, Lab Coordinator/Lecturer in Organic Chemistry, return of 3 TA to COSET that were cut in FY20

We asked for funding for increased student wages, increased graduate assistantship funds, new faculty and staff positions, and increased department O&M.

Due to enrollment declines, we did not receive any new funding this year.

HEAF Funding FY23

Higher Education Assistance Fund (HEAF) (\$)

- In FY22, received \$455,929 for startup, renovation, teaching and research equipment.
- In FY23, we are allocated \$300,00 for Start-up for new TT Faculty in AG, BIOL, CHEM, CS, ETEC: Only for equipment and capital purchases. Received additional \$100,000 in start-up from Provost for new faculty in AG and ENVGEO in FY22.
- No new funding for teaching or research equipment or for capital projects renovation

Additional Revenue Sources

Non-majors lab (\$16/student/lab) FY23 is \$149,056 an increase from FY22 of \$6432 (\$142,624). Fees used to purchase consumable materials and supplies. Does not roll/must be spent every year.

Proposing to increase to \$24/student/lab due to inflation

COSET Majors Program Fee is \$50/Fall and Spring semester, \$25 in summer semesters: FY23 is \$284,552, an increase from FY22 of \$1141 (\$283,411). Used by departments for use in lab support costs (materials, renovations, equipment, upgrades, software) and lab assistant student salaries. Unexpended does roll.

Fund Balance from FY21 was used to support Astronomy Observatory renovation cost increase and a new pickup for the Biology Field Station

Distance Learning Fee: Received \$860,567, a decrease of \$150,637 from FY22 (\$1,011,204). This was due to both a new tax from AA (10%) and reduced online offerings compared to pandemic. The DLF fee supports graduate assistantships, salaries and benefits for faculty and staff, and undergraduate and graduate scholarships.

Fixed Costs-Received \$1500 in fixed costs increase for security cameras in Pirkle (ETEC)

Other Budget Items

No Merit in FY22 due to enrollment drop

Merit in FY23 will depend on enrollment in Fall and Spring

August Stipend for FT Salaried Faculty and Staff (\$255,000 for COSET)

All departments in COSET moving to minimum \$10/hr student wage

- Faculty with grants will need to pay this minimum going forward (does not apply to current grants if wages were budgeted less than this amount)
- No new funding to pay for this increase, will impact both department O&M and Program Fee Funding-this was our top New Initiative Request in FY22 (was not funded), will be a top request in FY23
- Needed as students were choosing other on-campus or off-campus jobs paying higher wages

Gifts to COSET (7/1/21-6/30/22)

\$1,530,184

Agricultural Sciences- \$491,589

Biological Sciences-\$72,498

Chemistry- \$6,024

Computer Sciences-\$3,527

Engineering Technology-\$16,764

Environmental and Geosciences-\$502,754

Mathematics and Statistics-\$23,139

Physics and Astronomy-\$355,298

College-\$58,591

Big gifts this year to ENVGEO (\$500,000 Scholarship from Chuck Caughey 2-year scholarship for Geology transfer student) and Physics (Dominey Observatory renovation gift of \$350,000), tripled funding from FY21

COSET raised the most amount of funding of any SHSU College through the Annual Faculty/Staff Giving Campaign in 2021-2022 (over \$30,000 from COSET). Thank you for your support. This is the third year in a row we have raised the most funds of any unit! We now raised the most \$ 4 out of the last 10 years.

Endowment Funding

Fred Pirkle Faculty Enrichment Endowments: 1 TT Position, Quanta Endowment: 1 Visiting Position, Roland Black Endowment: Research Support for TT Professor, Gibbs Chemistry Endowment: Summer Faculty Research Support, Fred Pirkle Scholarships-\$5000 scholarships for AGET and ETEC majors

Over \$1,500,000 in scholarships



Enrollment, SCH and Graduates

University Enrollment/SCH as of 8/17/2022

Head Count down 2.1% compared to 21

- Undergrad down 1%
- Grad down 8.3%
 - First-time Freshman up 14.9%
 - First-time Transfer down 22%
 - First-time MS down 36%
 - First-time Doctoral down 46%

Total SCH down -0.81% compared to 21

- Undergrad down -0.04%
- Grad down -9.3%
 - First-time Freshman up 13.9%
 - First-time Transfer down -20.3%
 - First-time MS down -34.7%
 - First-time Doctoral down -45.2%

College Enrollment/SCH (8/17/22)

Head Count up 2.3% compared to 21

- Undergrad up 3.7% (3397 to 3523) (COE and CHSS up, all others down)
- Grad down -13.4% (299 to 259) (all down except COHS which is up <1%)
 - #1 by enrollment at undergraduate level (COCJ #2 at 3245)
 - #5 by enrollment at graduate level (COE #1, COBA, CHSS, COCJ 1-4, COHS #6, CAM #7)

Total SCH of COSET courses up 1.71% compared to 21 (59,496 to 60,511)

- 24.4% of all SCH are from COSET

SCH-Fall 2022, 2021

Data from //class day -5 (8/17/2022)

College	2021	2022	% Change
Academic Affairs	1,973	2,070	4.92%
Arts and Media	23,814	23,091	-3.04%
Business Administration	33,499	32,459	-3.10%
Criminal Justice	26,644	27,059	1.56%
Education	21,189	19,616	-7.42%
Health Sciences	20,760	20,553	-1.00%
Humanities and Social Sciences	62,809	62,800	-0.01%
Science and Engineering Technology	59,496	60,511	1.71%
Grand Total	250,184	248,159	-0.81%

Undergraduates in COSET

Data (8/17/2022)-compared to 2021 3523/3397 (+78 with Ed/COSET dbl majors)

Green Font +20% increase, Blue Font +10% increase, Red Font >10% decrease

Animal Science	600/535	Environmental Science	74/78
Biomedical Sciences	388/408	Engineering Technology	69/106
Biology (BA, BS)	313/372	Interdisc. Ag/Ed and IAG	69/74
Forensic Chemistry	305/297	Applied Arts and Sciences	66/85
Computing Science	274/212	Plant and Soil Science/Teach	56/60
Construction Management	264/272	Chemistry	55/47
Ag Business/Teaching	165/154	Geography (BA, BS)	48/46
Cybersecurity	139/104	Geology	44/41
Software Engineering	117/101	Composite Science/Ed & CS	38/37
Mechanical Eng. Tech.	111/49	Physics	33/30
Math/Ed and Math	106/116	Physics Civil Eng Trans	4/0
Engineering Design Tech.	83/72	◦ Physics Electr Eng Trans	5/0
Elec/Computer Eng. Tech	82/66	◦ Physics Mech Eng Trans	7/0
Ag. Eng. Tech/Teaching	82/81	Agricultural Communications	26/24

Graduate Students in COSET

Data as of 8/17/2022, compared to 2021

Doctoral

Digital and Cyber Forensic Science **12/20**

Masters **238/266**

Agriculture **25/35**

Sustainable Agriculture **16/23**

Biology **41/44**

Chemistry **14/13**

Computing and Data Science **22/13**

Digital Forensics **21/23**

Information Assurance & Cybersecurity **27/44**

Geographic Information Systems **26/31**

Mathematics (MA, MS) **34/34**

Statistics **14/13**

Graduate Certificate **8/8**

Cyber Security **0/1**

Data Assurance **0/0**

Digital Investigation **3/3**

Geographic Information Systems **5/4**

COSET Graduates (22/21)

	Fall 2021/ Fall 2020	Spring 2022/ Spring 2021	Summer 2022/ Summer 2021	Total AY22/ AY21
Undergraduate	229/273	308/315	108/105	645/693
Graduate	27/30	45/32	36/16	108/78
Total	256/303	353/347	144/121	753/771

Total graduates down 2.3%.

Undergraduates down 7%.

Graduates up 38%.

Research and Scholarship

Office of Graduate Studies

COSET 3MT (3 minute thesis) Jacob Brandon (AG)
won People's Choice Award

ASPIRE/ROAD Scholars-

Alumni-Fall 21 Jovinna Mendel (BIOL), Spring 22
(Antonio Meza (BIOL), Summer 2022 David Farris
(BIOL)

Active-Andrew Aouelle (MATH)

Internal Faculty Research Grants

59 proposal for \$482,288 were received by ORSP

36 were funded for a total of \$274,126.

COSET had 7 funded (19% of total) at \$57,574 funded (21% of all funding awarded)

Internal Faculty Research Grants

Amy Ray (Mathematics Education)-Evidence of student work tasks embedded in MATH 1384/1385/3381 Curriculum materials: opportunities for elementary pre-service teachers to critique the reasoning of others; \$5,000 (New Faculty)

Amar Rasheed (Computer Science)-Exploring dynamic power analysis on IoT devices for anomaly detection; \$5,000 (New Faculty)

Cihan Varol (Computer Science)-Vehicle Infotainment System Forensics; \$10,310 (Pilot Studies)

James Harper (Biological Sciences)-Plasticizers, climate change, and the heat stress response in speckled cockroaches; \$14,953 (Pilot Studies)

ABM Islam (Computer Science)-Machine learning-based sentiment analysis for predicting problematical eating behavior; \$14,609 (Pilot Studies)

Falguni Mukherjee (Environmental and Geosciences)-Assessing the impacts of urban sprawl on environmental health of urban areas-an examination using satellite data; \$4,570 (Individual Scholarship)

Ebrahim Karan (Engineering Technology)-Building community resilience in the food-energy-water and society nexus; \$3,132 (Individual Scholarship)

EURECA Grants (\$34,300)

Philip Urso (Agricultural Sciences)-Effects of Vitamen E at various time points on conception success in captive White-Tailed Deer (\$6300)

Jim Harper (Biological Sciences)-Effects of bisphenol on the integrated stress response in speckled cockroaches (\$6000)

Suleiman Obeidat (Engineering Technology)-Study on the mechanical properties of 316L stainless steel 3D printed parts made by (FDM/FFF) Technology (\$6000)

Don Albert (Environmental and Geosciences)-The forgotten women of the Bounty: Socio-cultural and spatial legacies of Pitcairn Island Tapa (Barkcloth) (\$6000)

Emma Bullock (Mathematics and Statistics) and Jamile Forcelinii (World Languages and Culture)-Understanding barriers that limit student success in online courses: a meta-analysis (\$10,000)

COSET Dean's Office Funding for Undergraduate Research (\$26,320)

Dean uses indirect funds to support Undergraduate Research Program

Funded undergraduate students through COSET Undergraduate Research Program (\$26,000)

- 4 awards in spring 2022 with 8 students and 4 faculty
- 3 awards in summer 2022 with 4 students and 3 faculty

Assessment Mini-Grants 2022 (\$1000 per grant, due in May)

Dr. Emma Bullock, Dr. Beth Cory, and Dr. Amy Ray, Department of Mathematics and Statistics

Developing a Reliable and Valid Vocabulary Assessment for MATH 1385

Dr. Amy Ray, Dr. Emma Bullock, and Dr. Mary Swarthout, Department of Mathematics and Statistics

Developing Reliable and Valid Vocabulary Assessment for Math 1384

Dr. Taylor Martin and Dr. Beth Cory, Department of Mathematics and Statistics

Developing a Calculus I Concept Inventory Assessment - Stage 1

Professional Development Leaves for FY23

Funded by Academic Affairs

Dr. Madhusadan Choudhary (Biological Sciences)-Fall 2022 (in Patna, India)

Dr. William Lutterschmidt (Biological Sciences)-Spring 2023 (at UC Irvine)

Dr. Renee James completed a FY22 leave in Australia. Welcome Back!

Congratulations and best wishes on a productive leave!

External Funding (7/1/21-7/1/22)

Department	# New Apps	\$ New Apps	# Grants Awarded	\$ New Awards	# Active Awards	\$ spent active grants
Agricultural Sciences	7	\$932,528	2	\$496,899	8	\$155,789
Biological Sciences	12	\$2,997,353	5	\$679,731	20	\$836,135
Chemistry	6	\$999,537	0	0	4	\$106,413
Computer Science	15	\$7,347,433	3	\$590,984	3	\$586,392
Engineering Technology	19	\$3,858,186	2	\$274,367	5	\$173,510
Environmental and Geosciences	0	0	1	\$43,418	4	\$99,706
Math and Statistics	3	\$1,263,522	2	\$32,182	2	\$61,466
Physics and Astronomy	0	0	1	\$405,000	2	\$105,753
Total (21-22)	62	\$17,398,599	16	\$2,522,581	48	\$2,125,164
Last Year (20-21)	76	\$18,830,582	27	\$1,593,575	21	\$241,453

Selected Grant Activity

2nd year of the Biology-Computer Science NSF funded REU (Cho and Choudhary)

1st Year of the Pollinators of East Texas grant (Williams et al from SHSU and D. Bennett from SFA)

Multi-investigator award from NSF to Dent, Shephard and Walker (Physics)

Data Science Pathway on Zeus Platform: Online training in Data Science funded by THECB Governors Emergency Education Relief Funding-Accelerating Credentials of Purposes and Value Grant Program to Zhou (CS)

GenCyber Capacity-Building @ SHSU, the NSA award number GC-22-TX-SHSU-B2 (CS)

NSF-GET TX hosted high school and community college students for 10 day summer bridge program about all things geoscience (ENVGEO) to Moss

Equipment and Infrastructure

Infrastructure

Gibbs Ranch Phase 1-Ground breaking ceremony held on August 5th, to be ready by Fall 2023



New Pickup Truck-Replaced 22-year-old pickup at Biological Field Station with new Ford F150



Building Renovations

All projects met with increased costs due to inflation and supply chain problems; some projects were scaled back in done in phases with funding available only for phase 1

Environmental and Geosciences began Engaging Spaces award for LDB 339 and AC replacement in LDB Annex- Engaging spaces delayed until Winter Break and Facilities took over replacement of AC unit in Lee Drain Annex (Geology labs) from COSET-waiting on AC (backordered)

Computer Sciences began 2022 Engaging Spaces award for lab redesign (completed)

Physics began renovations of Farrington space for 2nd Astronomy Lab-ongoing

Both LDB and Farrington had facelifts (new paint, carpeting, ceiling tiles, lights, and furniture); atrium glass replaced in LDB

NEW CS Engaged Space Lab





Dominey Astronomy Park

Park plan has been finalized

Additional gift of \$200,000 to fund a new telescope was donated last week along with initial gift of \$350,000 (Dominey family)

Will be seeking additional funding for remote controlled telescopes for online Astronomy students





Academics



SHSU officially recognized with HSI (Hispanic Serving Institution) status

- Over 25% students self-identify as Hispanic

SHSU promoted from Doctoral Research University (DRU) to Doctoral University-High Research Activity (R2), reflecting increased external funding and PhD production

SHSU joined Academic Engagement Network of US Cyber Command (Dec. 21)

Both BS in Computing Science and BS in Construction Management (ETEC) received accreditation from ABET (CS-recurring, Construction Management-Initial)

National Center for Academic Excellence Award in Cyber Defense Education-BS in Computing Science concentration in Information Assurance



Program Development

- BS in Data Science-passed out of curriculum review, to board for approval
- New 4+1 BS/MS option in Computing and Data Science
- New MS certificates in Data Science
- BS in Civil Engineering Technology-in review
- MS in Engineering Technology and Management-in review
- BS in Mechanical Engineering-in development
- Minor in Hemp Science-in development
- Astronomy minor now in catalog

- All programs in all departments will undergo a Program Health Check by Academic Affairs that will assess employment demand, job openings, and enrollment and graduation numbers
 - Need to be strategic and efficient in course and program offerings (minors, concentrations, majors)

International Activities



Renewed MOU with Firat University (Elazig, Turkey) for 2+2 program in Software Engineering

International Activities

Were unable to offer Study Abroad in 2022

Study Abroad 2023

- AGSC-France, CS-Taiwan, ETEC-South Korea

Study Abroad 2024

- CHEM-Hungary

Dr. Joe Hill (ENVGEO) led International Geology field camp in Spain (2022)

Dr. Renee James spent professional development leave in Australia (2022)

Dr. Ulan Dakeev (ETEC) organized visit of Alatau university president from Kyrgyzstan and his delegation to SHSU campus.

Dr. Choudhary is spending professional development leave at Patna University in India (Fall 2022)

Dean Pascarella will be in France in October through a Fulbright International Administrators Award, visiting universities and higher education officials. Will look to identify potential partners for study abroad, exchange. Currently have a partnership with Purpan University in Toulouse (Agricultural Sciences)

Issues for This Year

Strategic Planning

Student Success Initiatives-Dr. Melinda Holt

- DFW Process Mapping

Inclusion Initiatives-Dr. Li-Jen Lester

DPTAC changes and new procedures

Priorities for 2022-2023

New SHSU Strategic Plan

Strategic Priorities

- Prioritize Student Success and Student Access
- Embody a Culture of Excellence
- Elevate the Reputation and Visibility of SHSU
- Expand and Elevate our Service to the State and Beyond

Engage in Strategic Planning Forums-need faculty input on Strategic Priority 2-goal 1: Academic Excellence

- Dean Ron Shields and VP Chad Hargrave are co-chairs of this goal

Want to identify 3-4 objectives and KPI by end of fall Semester

MATH 1420 and CHEM 1411 Student Success Initiatives

Project Partners: Chemistry, Mathematics and Statistics, STEM Center, PACE,
Academic Success Center, and COSET

MATH 1420

- ❖ Re-envisioning the pathway between MATH 1314, 1410, and 1420
 - ❖ Prerequisites
 - ❖ Placement
 - ❖ Content mapping and alignment
- ❖ Enhancing classroom support
 - ❖ Just-in-time videos
 - ❖ Mentored/directed study groups
 - ❖ Potential co-requisites
 - ❖ Meta-cognition and study habit development
- ❖ Developing assessment research

CHEM 1411

- ❖ Enhancing classroom support
 - ❖ QEP grant for virtual active learning tools
 - ❖ Learning frameworks workshops
 - ❖ Mentored/directed study groups
 - ❖ Increased/improved lab assistant support
 - ❖ Calculator access
 - ❖ Attendance initiatives
- ❖ Analyzing institutional and classroom data

Focus on Whole Student Needs and Retention

This fall, provost will be highlighting faculty who focus on whole student needs

- For example, 80% of students work, with time management critical
- Many students are food-insecure, using Food Pantry
- Commuter students feeling inflation impacts on gas prices

With lower enrollment and decreasing transfer inputs, retaining more students will help with maintenance of enrollment, stabilizing university budgets

- Does not call for lowering academic standards but being aware of these issues in your approach to students, syllabi and flexibility.

COSET Inclusion Initiatives



What brings YOU into the
diversity space?

DPTAC and Standards

Each tenure unit will need to develop written performance standards in accordance with recent revisions to academic policies on *Faculty Reappointment, Tenure, and Promotion of Tenured and Tenure-Track Faculty* ([900417](#)), *The Faculty Evaluation System of Tenured and Tenure-Track Faculty* ([820317](#)), and *Performance Evaluation of Tenured Faculty* ([980204](#)). It is important that all tenured and tenure-track faculty in the tenure unit collaborate in developing performance standards and that standards have the approval of the department chair and college dean prior to submission to the Office of the Provost. A link for submitting performance standards will be available on the provost's Tenure Unit Standards webpage (link to follow later this month). The deadline for submission is **November 30, 2022**. Once approved by the Office of the Provost, performance standards will be posted on the Tenure Unit Standards page for easy access.

NOTE: Do not have to update current standards but should verify that current standards remain appropriate.

DPTAC updates

DPTAC

- New unit in Environmental and Geosciences replaces separate DPTAC for Geography and Geology, will need new unit standards.
- New unit in ETEC for faculty in years 1-3 of pre-tenure, faculty in years 4-6 continue with combined AGSC/ETEC DPTAC, will need standards.
- Each DPTAC will select a Chair no later than **Nov. 3**. Dept Chair and Dean will review and agree/not agree. If not agree, Chair and or Dean will meet with DPTAC to review concerns.
- All Associate Professors except those in 1st year of rank will be reviewed annually by DPTAC Full Professors with goal to identify performance relative to standards for Promotion to Full. Previously, most departments only did this for those seeking promotion to Full.
- For tenure, consideration of collegiality no longer applies as a separate area but can be referenced in relation to teaching, scholarship and service areas.

Welcome back and have a great Fall Semester!

