



Sam Houston State University
College of Science
& Engineering Technology

2024 FALL MEETING

AGENDA

- **Faculty/Staff Updates**
 - Dean's Office
 - New Faculty
 - Promotions
 - In Memoriam
- Budget
- Enrollment and Graduation
- 2023 - 2024 Accomplishments
- Awards
- ACE
- Strategic Planning

DEAN'S OFFICE

Dean: **Melinda Holt**

Associate Dean: **Li-Jen Lester**

Associate Dean: **Dustin Jones**

Assistant to the Dean: **Angie Jackson**

Administrative Coordinator: **Shellie Armstrong**

Administrative Associate: **Dawn Martin**

Administrative Assistant: **Susan Floyd**

Marketing Specialist: **Jette Morris**

STEM CENTER

Co-Directors:

Jim Harper - Biological Sciences & **David Thompson** - Chemistry

Advisory Board:

Michael Dadeev – Engineering Technology

Ava Fujimoto-Strait – Environmental & Geosciences

Stanley Kelley – Agricultural Sciences

Taylor Martin – Mathematics & Statistics

Velvet Nelson – Environmental & Geosciences

Todd Primm – Biological Sciences

Joel Walker – Physics & Astronomy

Faruk Yildiz – Engineering Technology

Bing Zhou – Computer Science

COSET STUDENT AMBASSADORS

- **Karolina Carreon Garcia** - Environmental & Geosciences
- **Reagan Carter** - Chemistry
- **Megan Hicks** - Biological Sciences
- **Jesika Miller** – Biological Sciences
- **Arabella Moore** – Computer Science
- **Gabe Ramos** – Biological Sciences
- **Mary Swift** – Biological Sciences

SCHOOL OF AGRICULTURAL SCIENCES

Mark Anderson

Assistant Professor: **Abbas Aboohamidi, PhD**

Assistant Professor: **Brittany Paris, PhD**

Assistant Professor: **Carly Hoffman, PhD**

Assistant Professor of Practice: **Maureen Victoria, PhD**

BIOLOGICAL SCIENCES

Aaron Lynne

Assistant Professor of Practice: **Jill Dewey, PhD**

Visiting Assistant Professor: **Cesar Cantu, PhD**

Lab Manager: **Charlie Suarez Reyes**

Field Manager: **Jesse Frakey**

Administrative Associate II: **Meredith Bassford**

CHEMISTRY

Donovan Haines

COMPUTER SCIENCE

Bing Zhou

Lecturer: **Alberto Ceballos Delgado**

ENGINEERING TECHNOLOGY

Faruk Yildiz

Assistant Professor:

Ali Dinc, PhD

Derli D. Amaral Jr., PhD

Assistant Professor of Practice:

Mahasen Abhelhafez

Visiting Assistant Professor:

Muhammad Hashir Syed, PhD

ENVIRONMENTAL AND GEOSCIENCES

Joe Hill

Assistant Professor: **Leila Character, PhD**

GIS Administrator: **Kerry Billington**

MATHEMATICS AND STATISTICS

Damon Hay

Assistant Professor of Mathematics

Jonathan Johnson, Ph.D.

Wen Feng, Ph.D.

Clinical Assistant Professor of Mathematics

Farzana Hafeez, Ph.D.

MATHEMATICS AND STATISTICS

Damon Hay

Visiting Assistant Professor

Yewen Huang, Ph.D.

Iason Moutzouris, Ph.D.

Heshan Pathirannehelage, Ph.D.

Diego Rojas, Ph.D.

Jooyoung Shin, Ph.D.

MATHEMATICS AND STATISTICS

Damon Hay

Lecturer

Tamara Robert, M.S.

Administrative Associate

Kelsi Riley

PHYSICS AND ASTRONOMY

Joel Walker

PROMOTION TO SENIOR LECTURER

Sarah Couch – Biological Sciences

Volha (Olga) Minich – Biological Sciences

Kirk Burns – Computer Science

Julie Albert – Mathematics & Statistics

David Dippel – Mathematics & Statistics

Cathy Lockwood – Mathematics & Statistics

TENURE/PROMOTION TO ASSOCIATE PROFESSOR

Mardelle Atkins – Biological Sciences

David Moss – Environmental & Geosciences

Di Gao – Mathematics & Statistics

William Shepherd – Physics & Astronomy

PROMOTION TO PROFESSOR

James Harper – Biological Sciences

Dustin Gross – Chemistry

Bing Zhou – Computer Science

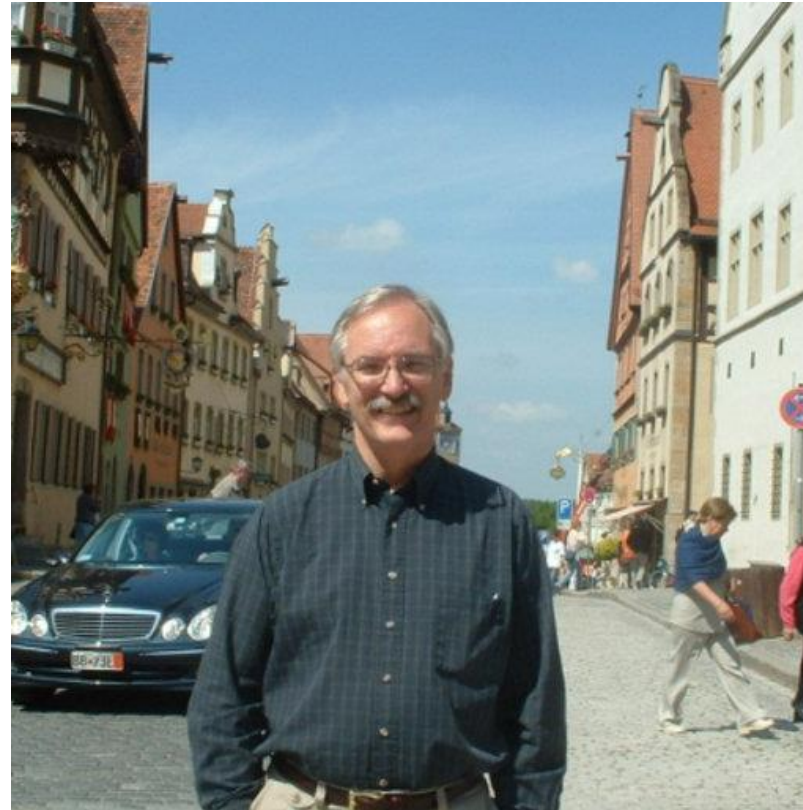
IN MEMORIAM

Sonny Sikes – Professor of Agriculture and Rodeo Team Coach



IN MEMORIAM

Dr. Rick White – Professor of Chemistry



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BUDGET

- **New Initiatives:** Asst Professor of Cybersecurity
\$15,000 - Biology O & M Increase
- **HEF:** \$402,348 - Data Science Computer Lab
\$285,000 - Faculty Start-Up
- **Program Fee :** \$9,384 - Continue funding student worker salary increase, which dips into our fund balance
- **Lab Fee:** \$1,312 - Distribute to departments
- **Distance Learning (DLF):** \$1,497* - Graduate Student Scholarship
- **IDC:** Unknown - Graduate Students & Faculty Travel
- **Incentive/Buyout:** Unknown

BUDGET

Self-Funding Priorities for 2024 - 2025

- Assistant Professor of Data Science
- Half-time Lecturer of Agriculture for HCC Partnership
- Security Operations Center (SOC) Student Workers
- STEM Center
- Grant Management Support for Faculty/Staff
- Travel Funding
- Scholarships/Assistantships
 - Freshman Academic Scholarships
 - Graduate Assistantships for MS Engineering Technology
 - Graduate Scholarships

BUDGET

Grant Funds for FY24:

| Department | # of Grants | Award Amount |
|-----------------------------|-------------|--------------|
| Agricultural Sciences | 4 | \$1,225,472 |
| Biological Sciences | 8 | \$3,091,493 |
| Chemistry | 2 | \$430,884 |
| Computer Science | 5 | \$603,188 |
| Environmental & Geosciences | 2 | \$690,266 |
| Engineering Technology | 1 | \$72,136 |
| Mathematics & Statistics | 2 | \$56,665 |
| Total | 24 | \$6,170,104 |

BUDGET

Donation Balances (8/15/24):

Agricultural Sciences: \$7.6 million

Biology: \$4.4 million

Computer Science: \$218,500

Engineering Technology: \$26.4 million

Mathematics and Statistics: \$752,700

Rodeo: \$1.96 million

Chemistry: \$1.26 million

Dean's Office: \$330,000

Environmental and Geosciences: \$1.95 million

Physics: \$1.4 million

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ENROLLMENT UPDATE (8/20/24)

Undergraduate Headcount: - 0.1% (3,678)

Undergraduate Student Credit Hours: +1.2% (48,233)

Graduate Headcount: +6.2% (257)

Graduate Student Credit Hours: +10.6% (1,759)

ENROLLMENT UPDATE



GRADUATES 2023 - 2024

| | |
|---------------------|-------------------|
| Fall 2023: | 276 |
| Spring 2024: | 357 |
| Summer 2024: | <u>100</u> |
| | 733 |

GRADUATE EXIT SURVEY

Spring 2024

Spring 2024 Graduates

College

All

Degree Type

All

350

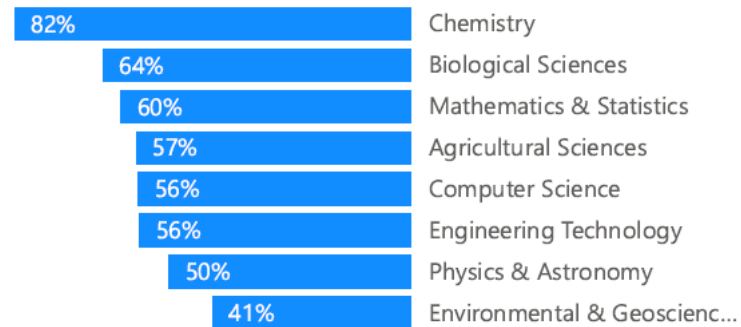
Unique Grads

212

Total Unique Survey Respondents

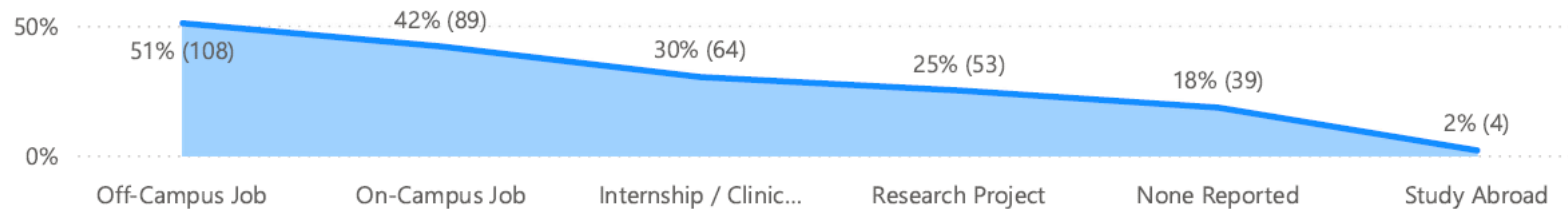
Percent of Survey Respondents by Department

(% in this viz is calculated over total graduates not total respondents)



Percent Reporting Participation in High-Impact Career Development Experiences

(Students may report more than one experience. Percent is calculated over all survey respondents only.)

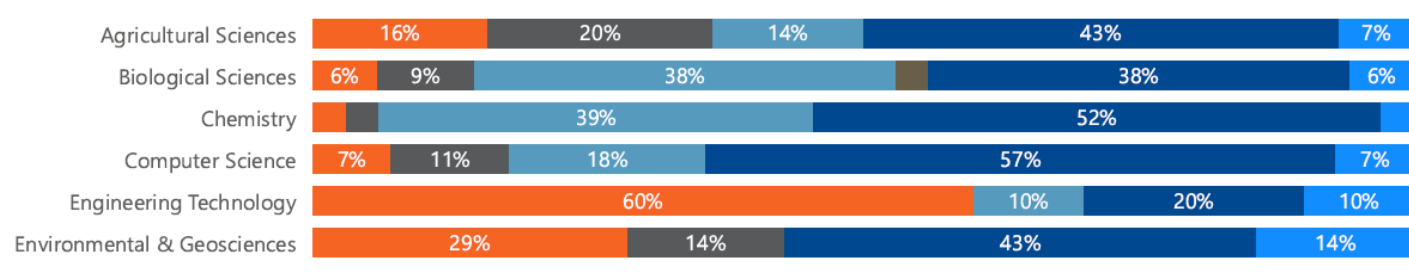


GRADUATE EXIT SURVEY

Spring 2024

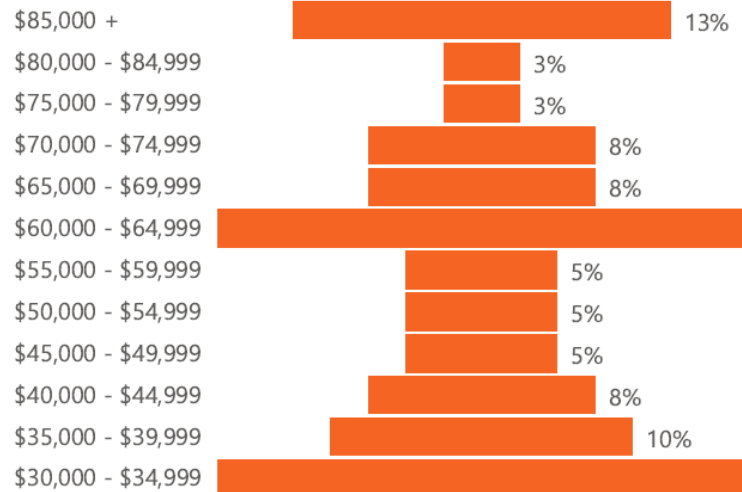
Percent of Post-Grad Plans by Department

● Accepted offer
 ● Continuing current employment
 ● Continuing education
 ● Not seeking employment
 ● Seeking employment
 ● Weighing Offer(s)



Percent Reporting Salary Offer with Range

(Weighing Offers or Accepted Offer only.)



Programs with Highest Average Reported Salary

(Arranged in Descending Order)



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STRATEGIC PRIORITY 1

Prioritize Student Success and Student Access

- New Curriculum:
 - Concentrations:
 - BAAS with Criminal Justice Concentration
 - BAAS with General Business Concentration
 - BS Major in Engineering Technology with Biomedical Engineering Technology
 - MS Tracks:
 - Digital Forensics, Professional Track & Thesis Track
 - Information Assurance and Cybersecurity, Professional Track & Thesis Track
 - Mathematics, Internship Track

STRATEGIC PRIORITY 1

Prioritize Student Success and Student Access

- Gateway Course Pass Rates:
 - MATH 1410: Fall + 8%, Spring + 6.9%.
 - MATH 1420: Fall - 7%, Spring + 13.3%. (Fall 2022 was up significantly.)
 - BIOL 1408: Fall + 8.1%, Spring + 18.7%.
 - GEOL 1404: Fall + 4.8%, Spring + 0.6%.
 - CHEM 1411: Fall + 8.1%, Spring - 4.2%. (Both up significantly over 3 years.)
 - CHEM 1412: Fall - 7.7%, Spring - 7.8%. (Both up significantly over 3 years.)
- STEM Center continued development of Ramps into Research
- Agricultural Sciences began a partnership with HCC. ETEC is exploring one.

STRATEGIC PRIORITY 1

Prioritize Student Success and Student Access

- Biological Sciences began an MOU with the Texas Autism Academy and collaborated with COHS and Services for Students with Disabilities to start AutismWorks.
- Initiated accreditation
 - ATMAE accreditation for BS Engineering Design Technology, BS Engineering Technology, BS Engineering Technology with an option in Electronics, BS Engineering Technology with an option in Environmental, Health and Safety Management. (January - October 2024)
 - ABET accreditation for Engineering Technology, Electronics and Computer Engineering Technology, and Software Engineering. (November 2023 - October 2024)
- Entered MOUs with The Washington Center for Internships and Academic Seminars to be a partner institution for the Clark Diplomatic Security Fellowship and Foreign Affairs IT Fellowship. (April - June 2024)

STRATEGIC PRIORITY 2

Embody a Culture of Excellence

- The MS in Information Assurance and Cybersecurity is ranked #1 in Cybersecurity Guide's 2024 affordability rankings.
- Computer Science entered an Educational Partnership Agreement with the National Security Agency.
- COSET began the MOU process with U.S. Census Bureau.
- COSET, COM, and COHS collaborated through the Colleagues & Collaboration seminar.
- In partnership with COHS and COM, faculty from Biological Sciences and Chemistry began enrichment programs for biomedical students and secured NIH funding to expand that work.
- The Natural History Collections acquired several significant collections.

STRATEGIC PRIORITY 3

Elevate the Reputation and Visibility of SHSU

- SHSU and Agricultural Sciences completed Gibbs Ranch Phase I expansion and hosted the inaugural rodeo to a sold-out crowd.
- SHSU and Physics & Astronomy completed Dominey Observatory Phase I expansion, offering the only ADA compliant observatory of its kind.
- COSET co-sponsored the Texas A&M University Mitchell Institute Collider, Dark Matter, and Neutrino Physics Workshop; and Physics & Astronomy partnered with Kavli Institute of Theoretical Physics.
- Summer Camps: Engineering Technology began offering the Bearkat STEM Camp. Environmental and Geosciences hosted the Geoscience Exposure and Training in Texas (GET TX) summer camp.

STRATEGIC PRIORITY 4

Expand and elevate our service to the State and beyond

- COSET faculty offered 29 ACE courses, impacting 771 students and providing \$858k in economic impact.
- Engineering Technology faculty and students, in partnership with Entergy, completed a solar EV fast-charging station.
- The Cyber Forensics Intelligence Center and IT@Sam began the Security Operation Center (SOC).
- Computer Science entered a partnership with Purdue University Northwest's Cybersecurity Workforce Certification Training program for veterans, first responders, and active members of the United States Military.
- Environmental and Geosciences hosted ~100 Conroe Academy students to discuss career opportunities in the Geosciences and engaged with area students and teachers through the grant-funded project "Building an Engaging Place-Based Geography Learning Community in Metro Houston."
- The School of Agriculture hosted career and leadership development events for the FFA and 4H, serving over 3000 youth.

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 - **COSET Excellence**
 - **University**
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EXCELLENCE AWARDS

Graduate Student Excellence in Research: **Weerakkody (Sanduni) Ranasinghe, Biological Sciences**

Student Excellence in Teaching: **Erica Hagemeyer, Biological Sciences**

Adjunct Faculty Excellence in Teaching: **Kristin Nicholson, Agricultural Sciences**

Staff Excellence: **Rachell Haines, Chemistry**

Faculty Excellence in Research: **Tarek Trad, Chemistry**

Faculty Excellence in Teaching: **John Strait, Environmental & Geosciences**

Faculty Excellence in Service: **Reg Pecen, Engineering Technology**

UNIVERSITY AWARDS

SHSU Excellence in Teaching: **Tamara Cook**

Non-Tenure Track Teaching Excellence: **Vohla (Olga) Minich**

C-USA Faculty Achievement: **John Strait**

ORSP Pitch Competition: **ABM Islam**

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Sam Houston State University

Center for Community Engagement

Academic Community Engagement (ACE)
College Coordinator for COSET

Dr. Danhong Chen

Office: PIRK 440F

Email: dchen@shsu.edu



Scan to Sign up for the ACE Workshop!



FACULTY WORKSHOPS

LEARN HOW
TO ACE YOUR
COURSE!



CALLING ALL FACULTY

Prepare your spring course for Academic Community Engagement! Attend the ACE Workshop on October 3rd or 4th in LSC 230B from 8:30 - 11:30 AM. Please scan the QR Code above to RSVP by September 15th.



THURS. OCT. 3, 8:30-11:30 AM
OR
FRI. OCT. 4, 8:30-11:30 AM

THE PROGRAM INCLUDES:



Complimentary breakfast, beverages and a final luncheon



A \$750 stipend following the final spring luncheon



Support and resources to help develop new ACE courses

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- **Strategic Planning**

COSET STRATEGIC PLANNING

Co-Chairs:

Emma Bullock, Mathematics and Statistics

Pat Harris, Environmental Geosciences

COSET STRATEGIC PLANNING

Committee Members:

Kyle Stutts, Agricultural Sciences

Sharmin Hasan, Biology

Dustin Gross, Chemistry

ABM Islam, Computer Science

Ava Fujimoto-Strait, Environmental and Geosciences

Ross Guida, Environmental and Geosciences

Junkun Ma, Engineering Technology

Recayi Pecen, Engineering Technology

Cathy Lockwood, Mathematics & Statistics

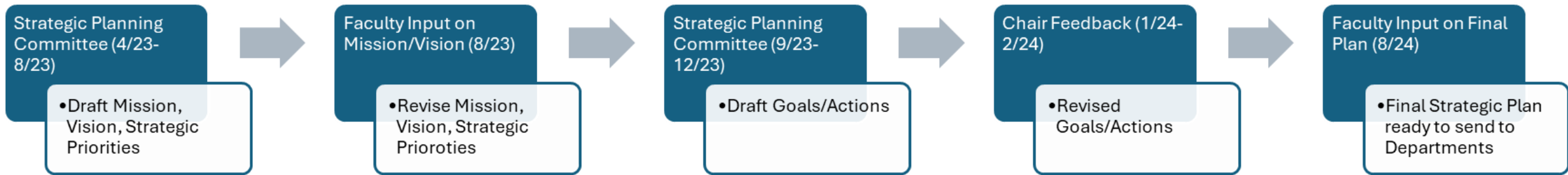
Scott Miller, Physics & Astronomy

William Shepherd, Physics & Astronomy

Shellie Armstrong, COSET

Li-Jen Lester, COSET

STRATEGIC PLANNING Timeline



STRATEGIC PLANNING

Mission & Vision

Mission: The College of Science and Engineering Technology (COSET) offers quality undergraduate, graduate, and professional-level STEM programs that are flexible, student-centered, innovative, and engaged with the community. COSET fosters student-faculty relationships focused on career readiness, research opportunities, and professional and personal development.

Vision: The College of Science and Engineering Technology (COSET) prepares a diverse population of STEM leaders to enrich their communities and professions and solve critical STEM challenges facing our world.

STRATEGIC PLANNING

Proposed Goals

Need your feedback!

Priority Goal 1: *Student Success and Student Access*

COSET Goals:

- 1: Support and enhance partnerships across campus and the community to improve retention and graduation of STEM majors.
- 2: Improve recruitment efforts.

Priority Goal 2: *Embody a culture of excellence*

COSET Goal: Facilitate faculty and staff success

Priority Goal 3: *Elevate the reputation and visibility of SHSU*

COSET Goal: Develop community relationships and interdisciplinary collaborations.

Priority Goal 4: *Expand and elevate our service to the State and beyond*

COSET Goal: Develop sustainable community partnerships and student development opportunities.

STRATEGIC PLANNING

Questions? Suggestions?



Sam Houston State University
**College of Science
& Engineering Technology**

Have a great year!



Sam Houston State University

**College of Science
& Engineering Technology**