College of Science & Engineering Technology

2023 FALL MEETING
AGENDA

- Introductions
  - Dean's Office
  - New Faculty
  - Promotions
  - Retirements
  - In Memoriam
- Dean Search
- Budget
- Enrollment and Graduation
- 2022 - 2023 Accomplishments
- Awards
- Strategic Planning
DEAN’S OFFICE

Interim Dean: Melinda Holt
Associate Dean: Li-Jen Lester
Interim Associate Dean: Dustin Jones
Assistant to the Dean: Angie Jackson
Administrative Coordinator: Shellie Armstrong
Administrative Associate: Katelyn Conner
Administrative Assistant: Susan Floyd
Student Worker: Jette Morris, Diego Mathenia
Assistant Professor of Practice: Robbie McQueen, M.S.
Assistant Professor: Steven Koether, Ph.D.
Assistant Professor: Anand Karki, Ph.D.
Assistant Professor of Practice & Director of Cyber Forensic Intelligence Center: Robert Greenberg, M.S.

Assistant Professor of Practice: Jayanthi Ramamoorthy, M.S.
Assistant Professor: Syed Hasib Akhter Faruqui, PhD
Assistant Professor: Yaping Xu, PhD
GIS Administrator: Kerry Billington
Assistant Professor: Giuseppe Martone, Ph.D.
Visiting Assistant Professors:
  • Birch Bryant, Ph.D.
  • Farzana Hafeez, Ph.D.
  • Isanka Garli-Hevage, Ph.D.
  • Emanuel Indrei, Ph.D.
  • Samuel "Joey" Lippert, Ph.D.
  • Nazek Obeidat, Ph.D.
  • Mohammed Rahman, Ph.D.
  • Janet Sipes, Ph.D.
  • Marsha Young, Ph.D.
Lecturer of Astronomy: Daniel Horenstein, M.S.
Lecture – Pool Faculty: Doojin Kim, Ph.D.
Lecturers:
  • Sabrine Assi, Ph.D.
  • Rawya Tubaishat, M.S.

Lecturers – Pool Faculty:
  • Gerald Banaag, M.A.
  • Yewen Huang, Ph.D.
  • Hashani Lokugama, M.S.
  • Tamara Robert, M.S.
  • Pedro Romero-Rojas, Ph.D.
TENURE/PROMOTION TO ASSOCIATE PROFESSOR

Adrian Villalta-Cerdas – Chemistry
Christopher Hobbs – Chemistry
Christopher Zall – Chemistry
Iftekhar Basith – Engineering Technology
Emma Bullock – Mathematics and Statistics
Doo Young Kim – Mathematics and Statistics
Timothy Trujillo – Mathematics and Statistics
PROMOTION TO PROFESSOR

Lawrence (Art) Wolfskill – Agricultural Sciences
Tarek Trad – Chemistry
Li-Jen Lester – Dean’s Office/Computer Science
Doug Ullrich – Agricultural Sciences
Joan Hudson – Biological Sciences
David Burris – Computer Science
Deborah Henriksen – Engineering Technology
IN MEMORIAM

Dr. Nedom Muns, III - Professor of Engineering Technology
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Advisory Committee:

Emily Roper, Dean, College of Health Sciences  
Jerry Cook, Distinguished Professor of Biological Sciences, TSUS Regents’ Professor  
Stanley F. Kelley, Professor, Agricultural Sciences  
Reg Pecen, Quanta Endowed Professor, Engineering Technology  
Darren Williams, Professor, Chemistry  
Min Kyung An, Associate Professor & Graduate Advisor, Computer Science  
Taylor Martin, Director of the STEM Center & Associate Professor, Mathematics & Statistics  
William Shepherd, Assistant Professor, Physics & Astronomy  
Ava Fujimoto-Strait, Instructor & Lab Coordinator, Environmental and Geosciences
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BUDGET UPDATE

• Merit: $569,421
• New Initiatives: $343,094 - 10 Visiting Assistant Professors in Mathematics and Statistics
• HEF: $230,000 - New Faculty Start-up Funds
• Program Fee: $79,728 - Student Worker Wage Increase
• Distance Learning (DLF): $40,000 - Department O&M Increase
• IDC/DLF: $25,000 - STEM Center
Grant Funds for FY23:

<table>
<thead>
<tr>
<th>Department</th>
<th>Number of Grants Awarded</th>
<th>Dollars Awarded</th>
</tr>
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<tbody>
<tr>
<td>Agricultural Sciences</td>
<td>3</td>
<td>$772,016</td>
</tr>
<tr>
<td>Biological Sciences</td>
<td>4</td>
<td>$2,430,915</td>
</tr>
<tr>
<td>Chemistry</td>
<td>3</td>
<td>$175,111</td>
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<tr>
<td>Computer Science</td>
<td>4</td>
<td>$2,852,348</td>
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<tr>
<td>Engineering Technology</td>
<td>8</td>
<td>$380,325</td>
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<td><strong>TOTALS</strong></td>
<td><strong>22</strong></td>
<td><strong>$6,610,715</strong></td>
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Grant Funds for FY23:

<table>
<thead>
<tr>
<th>Department</th>
<th>Number of Grant Submissions</th>
<th>Dollars Requested</th>
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<tbody>
<tr>
<td>Agricultural Sciences</td>
<td>10</td>
<td>$22,098,456</td>
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<tr>
<td>Biological Sciences</td>
<td>15</td>
<td>$10,888,220</td>
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<tr>
<td>Chemistry</td>
<td>7</td>
<td>$1,279,424</td>
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<tr>
<td>Computer Science</td>
<td>19</td>
<td>$3,344,547</td>
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<tr>
<td>Engineering Technology</td>
<td>18</td>
<td>$3,853,127</td>
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<tr>
<td>Environmental &amp; Geosciences</td>
<td>1</td>
<td>$684,266</td>
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<tr>
<td>Mathematics &amp; Statistics</td>
<td>2</td>
<td>$1,098,430</td>
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<tr>
<td>Office of the Dean</td>
<td>1</td>
<td>$989,891</td>
</tr>
<tr>
<td>Physics &amp; Astronomy</td>
<td>1</td>
<td>$898,892</td>
</tr>
<tr>
<td><strong>TOTALS</strong></td>
<td><strong>74</strong></td>
<td><strong>$45,135,253</strong></td>
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Donation Balances (8/4/23):

- Agricultural Sciences: $5.7 million
- Biology: $4.3 million
- Computer Science: $205,000
- Engineering Technology: $22.5 million
- Mathematics and Statistics: $672,000
- Rodeo: $1.1 million
- Chemistry: $1.1 million
- Dean’s Office: $984,000
- Environmental and Geosciences: $1.2 million
- Physics: $178,000
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ENROLLMENT UPDATE (8/16/23)

Undergraduate Headcount: +4.8% (3,692)

Undergraduate Student Credit Hours: +5.66% (47,737)

Graduate Headcount: -3.9% (249)

Graduate Student Credit Hours: -7.26% (1,628)
GRADUATE EXIT SURVEY

College of Science & Eng. Tech.  
203/347 Respondents  
59% Response Rate

39%  
Accepted Job Offers, Continuing Employment, Have Offers

33%  
Still Seeking

26%  
Continuing Education

1%  
Not Seeking

<1%  
Entering the Military

0%  
Unknown

48%  
None of the Following

22%  
Research Project

18%  
Internship

10%  
More Than One

2%  
Micro-Internship

0%  
Study Abroad

0%  
Co-op
AGENDA

- Introductions
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- Budget and Enrollment Updates
- 2022 - 2023 Accomplishments
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STRATEGIC PRIORITY 1
Prioritize Student Success and Student Access

- New Curriculum:
  - BS Data Science
  - 4+1 BS/MS Computing and Data Science
  - Graduate Certificate in Data Science
  - MS Business Security and Resilience (in progress)
  - BS Biochemistry

- Minors in:
  - Astronomy
  - Advanced Chemistry
  - Crime Analysis and Mapping

- Certificates in:
  - Crime Analysis and Mapping and Computing and Data Science (online)

- Concentrations:
  - Biochemistry and Medicine
  - Forensic Science
  - Biomedical Engineering Technology
  - Animal Care and Welfare
  - Ranch Management

- MOUs with Blinn College and UT - Tyler
STRATEGIC PRIORITY 1  
Prioritize Student Success and Student Access

- Dual credit Mathematics courses for Huntsville High
- Science Training Community for Neurodiverse Students
- Data Science for Energy Transition Bootcamp with UH
- BearKat STEM Camp for junior and high school students
- NSA-funded GenCyber camp for future K-12 teachers
- Catapult into STEM Summer Bridge Course
STRATEGIC PRIORITY 1
Prioritize Student Success and Student Access

- Student Success Initiatives: CHEM 1411 +15%, MATH 1420 +5%
- Study abroad scholarships
- Increased graduate scholarships
- Welch Foundation funding support for student summer research
- Reynolds & Reynolds scholarship endowment for Computing Science majors
STRATEGIC PRIORITY 2
Embody a Culture of Excellence

- Computer Science programs recognized in 2023 U.S. News & World Report. No. 20 in Best Online Master's in Computer Information Technology Programs and No. 10 in Best Online Master's in Computer Information Technology Programs for Veterans

- College Factual ranks SHSU’s Forensic Chemistry program No. 4 in the US in the categories ‘Best Value Bachelor’s Degree Colleges for Forensic Chemistry’ and ‘Highest Paid Bachelor’s Degree Forensic Chemistry Graduates’, and 5th in the US for ‘Best Forensic Chemistry Bachelor’s Degree Schools’. The program was ranked 7th in the US overall and ranked #1 in Texas. CollegeRaptor ranks the program 8th in the country and it is the top-ranked program in Texas. Bachelors Degree Center ranks the program 10th in the US among all Forensic Science BS degree programs.
STRATEGIC PRIORITY 2
Embody a Culture of Excellence

- American Association of Geographers Distinguished Teaching Award (John Strait and Ava Fujimoto-Strait).
- Sorin Teodorescu received a Patent - Eccentric Reaming Tool.
- Ulan Dakeev published *Creo Parametric Modeling with Augmented Reality*
- Editorships: Scott Chapman (*Communications in Algebra*), John Pascarella (*The Southwestern Naturalist*)
STRATEGIC PRIORITY 2
Embody a Culture of Excellence

- The Integrative Natural History Series (Series Editor: William I. Lutterschmidt) published *The Mammals of Trans-Pecos Texas* by Yancy et al.

- Natural History Collections obtained several noteworthy collections, including early Texas well core samples and Davis Mountain geologic samples.

- Bridge Grants: Establishment of the Biomedical Research, Innovation, Training, and Employment (BRITE) Consortium at SHSU, Urban Agribusiness Ventures to Connect and Engage our Hispanic Community, Machine-Learning Algorithm to Optimize the Carbon Sequestration and Noise Attenuation of Roadside Vegetation in Texas
STRATEGIC PRIORITY 3
Elevate the Reputation and Visibility of SHSU

- Expansion of Gibbs Ranch
- Expansion of Dominey Observatory
- SkillsUSA Conference
- Partnership with Kavli Institute of Theoretical Physics
STRATEGIC PRIORITY 3
Elevate the Reputation and Visibility of SHSU

- Girl Scout STEM Day
- Zebrafish Research Experience for Huntsville High
- Co-sponsorship of the Texas A&M University Mitchell Institute Collider, Dark Matter, and Neutrino Physics Workshop
- Be(e) STEM Symposium
STRATEGIC PRIORITY 4
Expand and elevate our service to the State and beyond

- ETEC/Entergy Solar EV Fast-charging Station
- STEM Center Ramps in Research industry partner network
- Geoscience Exposure and Training in Texas (GET TX)
- Building an Engaging Placed-Based Geography Learning Community in Metro Houston
- Ten faculty began serving terms on state, national, and international professional boards.
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  - COSET Excellence
  - University
- Strategic Planning
EXCELLENCE AWARDS

Graduate Student Excellence in Research: Herath Mudiyanselange Dnethri Wageesah Herath (Chemistry)

Student Excellence in Teaching: Emily Hays (Biological Sciences)

Adjunct Faculty Excellence in Teaching: Shelby Brock (Engineering Technology)

Staff Excellence: Amber Gates (COSET Instructional Designer)

Faculty Excellence in Research: Dr. Danhong Chen (Agricultural Sciences)

Faculty Excellence in Teaching: Dr. Tamara Cook (Biological Sciences)

Faculty Excellence in Service: Dr. Darren Williams (Chemistry)
UNIVERSITY AWARDS

Professor Emeritus
   Jim Tiller
   Jian Zhong Wang

SHSU Staff Excellence Award: Steven Koether

Academic Affairs Distinguished Staff Awards
   Rookie Award: Katelyn Conner
   Distinguished Staff Member of the Year: Steven Koether
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COSET STRATEGIC PLANNING

Co-Chair: Emma Bullock, Mathematics and Statistics
Co-Chair: Pat Harris, Environmental Geosciences
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
  Recayi Pecen, Engineering Technology
  Cathy Lockwood, Mathematics and Statistics
  Scott Miller, Physics & Astronomy
  William Shepherd, Physics & Astronomy
  Shellie Armstrong, COSET
  Li-Jen Lester, COSET
DRAFT Mission: The College of Science and Engineering Technology offers accessible quality undergraduate, graduate, and professional-level STEM programs that are flexible, student-centered, innovative, and engaged with the community. COSET provides integrated academic and student success services focused on career readiness, research opportunities, personal and professional development, and community service to support traditional and non-traditional students from diverse backgrounds.

DRAFT Vision: The College of Science and Engineering Technology will provide a high quality, innovative, interdisciplinary, and inclusive environment that enables students from diverse backgrounds to become STEM leaders. COSET faculty, staff, and students will enrich their communities and professions to solve the most critical STEM challenges facing our world.
STRATEGIC PLANNING
Proposed Goals

Need your feedback!

Priority Goal 1: *Student Success and Student Access*
COSET Goals:

Priority Goal 2: *Embody a culture of excellence*
COSET Goals:

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

Priority Goal 4: *Expand and elevate our service to the State and beyond*
COSET Goals:
Have a great year!
Questions? Suggestions?