CASE
College Wide Meeting

December 8, 2022
Commencement

12/17 10AM Master’s & Bachelor’s Degree Graduates
- Biological Sciences
- Environmental Sciences
- Industrial Organizational Psychology
- Psychology

12/17 3PM Master’s & Bachelor’s Degree Graduates
- Applied Mathematics
- Chemistry
- Education
- English
- English & Technical Communication
- History
- Mathematics
- Multidisciplinary Studies
- Philosophy
- Physics
- Technical Communication

12/16 6PM Doctoral (Ph.D.) Degree Graduates
All S&T Ph.D. graduates, including:
- Chemistry
- Mathematics
- Physics
State of College

- July 1, 2022: New name and new Dean. Thank you for the opportunity.
- 11 units as of now offering more than 85 different academic options including certificates, minors, bachelor’s, master’s, and doctoral degrees
- 95 tenured/tenure-track (78% tenured) faculty; 27 non-tenure-track faculty (22% of all college faculty)
- 24 full-time staff members
- 769 students (76% undergraduate, 24% graduate); 87% attend full-time; 45% female, 20% freshman, 10% international; almost equal number of MS and PhD students
- 114 Graduate appointments (80 PhD, 34 MS)
- Where do we want to be in 5 to 10 years?
Budget Snapshot

- 91% of our budget goes to salary and fringe.
- CASE’s operating budget (not salary and fringe) is $352,935 a year.
- Had small raise pool for faculty and staff (merit + equity) this year.
- Average of $240,000 in annual college fundraising.
- FY24 budgets will start to be built in early 2023.
• Covid and loss of 2 departments impacted enrollment and SCH
• S&T UG enrollment has declined 20% and CASE 19% since 2018
• CASE offering 21% less UG SCH than in 2018-19
• Fewer Missouri students applying
• Last 5 years Average yield: 20%
• Fewer applications, less admits; higher yield than 2021
• For Fall 2023 we currently have 645 admitted students but our yield is 121 (19%)
• Please help us turn admitted students into enrolled students.
• Thanking you for all you do to help us recruit and retain students.
• Welcome ideas on how to reverse declining enrollment, which is our biggest concern
<table>
<thead>
<tr>
<th></th>
<th>2018</th>
<th>2019</th>
<th>2020</th>
<th>2021</th>
<th>2022</th>
</tr>
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<tbody>
<tr>
<td>Applied</td>
<td>401</td>
<td>482</td>
<td>544</td>
<td>502</td>
<td>431</td>
</tr>
<tr>
<td>Admitted</td>
<td>302</td>
<td>330</td>
<td>401</td>
<td>386</td>
<td>356</td>
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<tr>
<td>Yield</td>
<td>23.90%</td>
<td>21%</td>
<td>16.90%</td>
<td>17.3</td>
<td>20.60%</td>
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Source: Power BI
CASE Delivered Student Credit Hours (UG and Grad)
Graduate Enrollment Picture

- S&T GR enrollment has declined by 10% and CASE is up 5% since 2018
- Decline of Ph.D. students and increase of Master’s students
- Few more Graduate assistantships
- CASE offering 2% more GR SCH since 2018
Number of Graduate Assistants in CASE
6 New Programs Approved in 2022:

- B.S. degree in Environmental Science (launched in Fall 2022) including an emphasis in Secondary Education
- Undergraduate Certificate in Medicinal Chemistry
- Undergraduate Certificate in Education of Young Children
- BA Multidisciplinary Studies emphasis areas in French Language and Culture, Spanish Language and Culture, and Global Engineering
- Graduate Certificate in Professional Communication
- Graduate Certificate in Human Factors
Supporting Student Success

- Training and use of S&T Connect to encourage students in classes or to send out early warnings about absences, assignments, or test scores.
- Undergraduate Advisory Councils in departments
- Community-building events in departments
- Embedded undergraduate tutors in some courses
- Additional GTAs added in some departments
- Faculty Advisor outreach to students (intensive advising)
- Intersession courses to help students stay on track
- More online summer offerings
- Online, asynchronous prep course for Chem 1310
- Restructuring of Calculus sequence
- Re-organization and re-calibration of coursework
- Course policy revisions
- Additional LEAD (Learning Enhancement Across Disciplines) opportunities
2022 Research Highlights

- Record year for CASE in terms of research awards (20% success rate)
- 5 books published plus numerous articles and creative works
- Numerous awards, recognitions, conference presentations mentioned in the monthly newsletter
- 13 patent applications were submitted. 3 approved (1 since our last college wide meeting in April; by Prof. Thomas P. Schuman (Chemistry)
- Research Task Force Report
- 17 faculty/student match-ups for 2022-23 FYRE; Projects from 6 departments:
  - ALP – 1
  - Biological Sciences – 3
  - Chemistry – 6
  - English and Technical Communication – 2
  - Physics – 4
  - Psychology - 1
Books Published in 2022

Quantum Electrodynamics
Atoms, Lasers and Gravity
Ulrich D. Jentschura, Gregory S Adkins

THE CORRESPONDENCE OF JOHN TYNDALL
12

HATTIE LEE BARNES AND THE KILLING OF A WHITE MAN IN 1950s MISSISSIPPI
Trent Brown

THE MISSOURI HOME GUARD Protecting the Home Front during the Great War
Petra DeWitt

TEA ON THE TERRACE HOTELS AND EGYPTOLOGISTS’ SOCIAL NETWORKS, 1885–1925
KATHLEEN SHEPPARD
## 2018–22 CASE Research Awards

<table>
<thead>
<tr>
<th>FISCAL_YEAR</th>
<th>SHARE_RES_AWARD_AMT</th>
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<tbody>
<tr>
<td>2018</td>
<td>$4,520,513.68</td>
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<tr>
<td>2019</td>
<td>$5,429,288.78</td>
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<tr>
<td>2020</td>
<td>$5,226,062.32</td>
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<tr>
<td>2021</td>
<td>$5,441,246.38</td>
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<tr>
<td>2022</td>
<td>$5,460,437.90</td>
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Thank you for the last four and a half years!!

Melanie Mormile
Associate Dean for Research and External Relations
New Faculty
Xiaoming Wang
Gary Havener Endowed Department Chair of Mathematics & Statistics

Andrea Scharf
Assistant Professor Biological Sciences

Ryan Cheek
Assistant Professor English & Technical Communication
## Faculty Hiring

<table>
<thead>
<tr>
<th>Academic Year</th>
<th>2021-2022</th>
<th>2022-2023</th>
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<tbody>
<tr>
<td>NTT</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>NTT Converted to TT</td>
<td>3</td>
<td>0</td>
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<tr>
<td>TT Assistant Professor</td>
<td>4</td>
<td>6</td>
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<tr>
<td>Endowed Chair/KI</td>
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<td>2</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>8</strong></td>
<td><strong>11</strong></td>
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### Hiring by Year

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<tr>
<th>Year</th>
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<th>NTT Converted to TT</th>
<th>TT Assistant Professor</th>
<th>Endowed Chair/KI</th>
<th>Total</th>
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<tbody>
<tr>
<td>FY2017</td>
<td>186</td>
<td>122</td>
<td>122</td>
<td>2</td>
<td>310</td>
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<tr>
<td>FY2018</td>
<td>185</td>
<td>131</td>
<td>131</td>
<td>1</td>
<td>317</td>
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<tr>
<td>FY2019</td>
<td>179</td>
<td>136</td>
<td>136</td>
<td>1</td>
<td>316</td>
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<tr>
<td>FY2020</td>
<td>167</td>
<td>128</td>
<td>128</td>
<td>1</td>
<td>295</td>
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<tr>
<td>FY2021</td>
<td>164</td>
<td>127</td>
<td>127</td>
<td>1</td>
<td>291</td>
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<tr>
<td>FY2022</td>
<td>154</td>
<td>124</td>
<td>124</td>
<td>1</td>
<td>279</td>
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### Distribution by College

<table>
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<tr>
<th>College</th>
<th>FY2017</th>
<th>FY2018</th>
<th>FY2019</th>
<th>FY2020</th>
<th>FY2021</th>
<th>FY2022</th>
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<tbody>
<tr>
<td>CEC</td>
<td>186</td>
<td>185</td>
<td>179</td>
<td>167</td>
<td>164</td>
<td>154</td>
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<tr>
<td>CASB</td>
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<td>131</td>
<td>136</td>
<td>128</td>
<td>127</td>
<td>124</td>
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<tr>
<td>Others</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
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2022-23 Faculty Searches

Tenure Track/Tenured Positions
- Kummer Endowed Professors of Data Science in Mathematics
- Castleman Endowed Professorship of Discovery in Chemistry
- TT Assistant professor in Computational Mathematics
- TT Assistant professor of Analytical Chemistry
- TT Assistant professor of Early Childhood Education
- TT Assistant professor in Plant Biology and Science Education
- TT Assistant professor of Philosophy
- TT Assistant professor of Astrophysics

Non-Tenure Track Positions
- NTT Assistant Teaching Professor of Biology
- NTT Assistant Teaching Professor of History
- NTT Assistant Teaching Professor of Mathematics
New Department Chairs
New Staff
44 New Staff Hires

**Biology**
Cassandra Gorman

**Chemistry**
Dawn Davis
Mary Scrivens

**Dean's Office**
Megan Fowler
Leanna Miller
Jackie Sansone

**Kummer STEM Center**
Cindi Kinder
Roxanne Hanna
Sarah Baggett
Martin Pickney

**Child Development Center**
Jasper Aerys
Mckayla Callahan
Sarai Gebhard
Genevieve Huber
Shae Hulbert
Sydney Hulbert
Eve Jackson
Lynsey Knapp
Kennedie Losing
Brittany O'Hara
Angela Siers
Daniel Stutts
Samantha Taylor
Christina Wright
Aleisha Flori
Megan Kohl
Jeremy Schweiss
Amanda Baker
Becky Cross
Fayte Ford
Autumn Skyles
Cynthia Teague

**Psychology**
Kendra Mehl
Elena Bai

**Regional and Professional Development**
Randey Caffey
Robert Currier
Michael Dougan
Amy Herrman
Mary Hopkins
Melissa McCutcheon
Leanne Mowery-Halbrook
Christina Sheffel
Aileen Taft
Lori Vaughn
Staff Highlights
37 Years of Service!

Linda Guyton-Gladden
Business Support Specialist II
Mathematics and Statistics
19 Years of Service!

Carrie Rossy
Office Support Assistant IV
Mathematics and Statistics
Faculty Leadership Council Representatives

Lorie Francis – Arts, Languages, and Philosophy
Chen Hou – Biological Sciences
Jeffrey Winiarz – Chemistry
Rachel Schneider – English & Technical Communication, Chair
Michael Meagher – History
Elvan Akin – Mathematics & Statistics
Daniel Fischer – Physics
Amber Henslee – Psychological Science
Julia Alexander – Teacher Education
Communication & Visibility

- Monthly Newsletter since August send to over 800 people
- Launched LinkedIn page (250 followers so far)
- Enhancing CASE webpage
- Featuring faculty, staff, students and alumni on monthly newsletter and social media
- Collecting Departmental Facts to improve marketability
- New departmental one-page flyers
- Faculty Profiles (sites.mst.edu) using WordPress
Upcoming Initiatives

- Contemplating two new PhD programs in Biology and Technical Communication
  - R1 status unattainable without humanities & social science PhD
- Bio X initiative and potentials for CASE
- Hiring new associate deans
- CASE Annual Report
- CASE White Paper
- Planning to form a college wide Undergraduate Advisory Board
- Working on fundraising priorities
- Permanent wall exhibit in the library
- New video projects for CASE
- Increased enrollment in the Child Development Center
CASE Dean’s Medal

- The Dean’s Leadership Council recognizes faculty who have made outstanding contributions to the academic, professional or personal growth of their undergraduate students. They annually honor one CASE faculty member with the Dean’s Medal, along with a financial award of at least $2,023, at the DLC fall meeting.

  - **Dave Westenberg**, Biological Sciences, was the 2021 winner
  - **Merilee Krueger**, Psychological Science, was the 2022 winner

- Deadline for nominations is February 28, 2023

- For nomination forms and more information visit [https://case.mst.edu/councils/casedeansmedal/](https://case.mst.edu/councils/casedeansmedal/)
S&T ADVANCE Program:

- Upcoming Opportunities:
  - Apply to be an S&T ADVANCE Faculty Fellow
    - Letter of intent due January 9th
  - New Ombuds position
    - Call for nominations coming soon!
  - Spring Distinguished Speaker
    - April 4th: Dr. Erin Cech

Learn more by visiting https://advance.mst.edu/ or contact Jessica Cundiff

To become an S&T ADVANCE Affiliate and stay updated, email: advance@mst.edu
Awards, Recognitions & Highlights
Curator’s Teaching Professor

Dave Westenberg
Biological Sciences
Faculty Achievement Award

Niranjana Krishnan
Biological Science
Faculty Achievement Award

Kendrea James
English & Technical Communication
Faculty Excellence Award

Kathleen Sheppard
History and Political Science
Faculty Excellence Award

Marco Cavaglia
Physics
Faculty Excellence Award

Xiaoming He
Mathematics and Statistics
Faculty Research Award

Amy Belfi
Psychological Science
Faculty Research Award

Daniel Fischer
Physics
Faculty Research Award

Eric Bryan
English & Technical Communication
Faculty Research Award

Shane Epting
Arts, Languages, and Philosophy
Faculty Service Award

Clair Kueny
Psychological Science
Faculty Service Award

Devin Burns
Psychological Science
Faculty Teaching Award

Amber Henslee
Psychological Science
Faculty Teaching Award

Dev Niyogi
Biological Science
Faculty Teaching Award

Jossalyn Larson
English & Technical Communication
Faculty Teaching Award

Katie Shannon
Biological Science
Faculty Teaching Award

Merilee Krueger
Psychological Science
Faculty Teaching Award

Petra DeWitt
History and Political Science
Thank you for all you do. Questions or Concerns?