Gupta College of Science
Town Hall

February 8, 2023
## Enrollment – Fall 2022

### Fall 2022 Enrollment by College

<table>
<thead>
<tr>
<th>College</th>
<th>Headcount</th>
<th>FTE</th>
</tr>
</thead>
<tbody>
<tr>
<td>College of Business Administration</td>
<td>2,552</td>
<td>3,301</td>
</tr>
<tr>
<td>College of Education and Social Sciences</td>
<td>1,406</td>
<td>1,090</td>
</tr>
<tr>
<td>College of Health and Human Performance</td>
<td>1,517</td>
<td>3,001</td>
</tr>
<tr>
<td>College of Humanities and Fine Arts</td>
<td>2,656</td>
<td>2,794</td>
</tr>
<tr>
<td>College of Science</td>
<td>1,465</td>
<td>1,000</td>
</tr>
<tr>
<td>Honors College and Other</td>
<td>363</td>
<td>500</td>
</tr>
</tbody>
</table>

**Total:**
- Headcount = 10,337
- FTE = 9,928

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**COASTAL CAROLINA UNIVERSITY**
Coastal Carolina University accepts all qualified, in-state students who apply. As a means of holding in-state tuition down, out-of-state tuition differential subsidizes costs.
Within 6 Years:
- Graduated from Coastal Carolina University: 50%
- Graduated from Another Institution: 18%
- Enrolled at Coastal Carolina University: 1%
- Enrolled at Another Institution: 7%
- Current Status Unknown: 24%

Within 4 Years:
- Graduated from Coastal Carolina University: 36%
- Graduated from Another Institution: 8%
- Enrolled at Coastal Carolina University: 20%
- Enrolled at Another Institution: 18%
- Current Status Unknown: 18%
23/FA Freshmen applications are up 7.2% (1,064) over same time last year
23/FA New Freshmen applications received this week: 390 versus 329 for same week last year
23/FA Freshmen acceptances are up 23.0% (2,080) over same time last year
23/FA Freshmen pending applications are down 18.5% (-1,056) over same time last year
23/FA Freshmen deposits are down 14.4% (-64) over same time last year

23/FA Transfer applications are up 10.1% (62) over same time last year
23/FA New Transfer applications received this week: 76 versus 63 for same week last year
23/FA Transfer acceptances are up 8.8% (17) over same time last year
23/FA Transfer pending applications are up 9.9% (41) over same time last year
23/FA Transfer deposits are up 24.4% (11) over same time last year
# Fall 22 to Spring 23 Enrollment

## Continuing Degree-Seeking UG Students

### By Program

#### Enrolled Spring 2023

<table>
<thead>
<tr>
<th>College</th>
<th>Program</th>
<th>#</th>
<th># Enrolled 22/FA</th>
<th># Enrolled 23/SP</th>
<th>% Enrolled 23/SP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Science</td>
<td>Biochemistry</td>
<td>71</td>
<td>71</td>
<td>71</td>
<td>100.0%</td>
</tr>
<tr>
<td></td>
<td>Biology</td>
<td>400</td>
<td>364</td>
<td>84.6%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chemistry</td>
<td>13</td>
<td>11</td>
<td>84.6%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Computer Science</td>
<td>149</td>
<td>137</td>
<td>91.9%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Engineering Science</td>
<td>122</td>
<td>118</td>
<td>96.7%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Information Systems</td>
<td>34</td>
<td>33</td>
<td>97.1%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Information Technology</td>
<td>90</td>
<td>84</td>
<td>93.3%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Marine Science</td>
<td>735</td>
<td>691</td>
<td>94.0%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mathematics</td>
<td>16</td>
<td>16</td>
<td>100.0%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Physics</td>
<td>19</td>
<td>19</td>
<td>100.0%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Psychology</td>
<td>636</td>
<td>594</td>
<td>93.4%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Statistics</td>
<td>16</td>
<td>16</td>
<td>100.0%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Undeclared, Science</td>
<td>5</td>
<td>5</td>
<td>100.0%</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>College Total</strong></td>
<td></td>
<td><strong>2,306</strong></td>
<td><strong>2,159</strong></td>
<td><strong>93.6%</strong></td>
</tr>
<tr>
<td></td>
<td><strong>University Total</strong></td>
<td></td>
<td><strong>8,768</strong></td>
<td><strong>8,202</strong></td>
<td><strong>93.5%</strong></td>
</tr>
</tbody>
</table>

COASTAL CAROLINA UNIVERSITY
First-time, Full-time Fall 2014 - 2022 Student Spring and Fall Retention

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall to Spring</th>
<th>Fall to Fall</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall 2014</td>
<td>86.6%</td>
<td>64.7%</td>
</tr>
<tr>
<td>Fall 2015</td>
<td>88.1%</td>
<td>68.5%</td>
</tr>
<tr>
<td>Fall 2016</td>
<td>88.5%</td>
<td>67.1%</td>
</tr>
<tr>
<td>Fall 2017</td>
<td>88.7%</td>
<td>68.9%</td>
</tr>
<tr>
<td>Fall 2018</td>
<td>89.0%</td>
<td>68.4%</td>
</tr>
<tr>
<td>Fall 2019</td>
<td>89.3%</td>
<td>73.4%</td>
</tr>
<tr>
<td>Fall 2020</td>
<td>89.5%</td>
<td>72.3%</td>
</tr>
<tr>
<td>Fall 2021</td>
<td>89.8%</td>
<td>70.6%</td>
</tr>
<tr>
<td>Fall 2022</td>
<td>90.2%</td>
<td></td>
</tr>
</tbody>
</table>

Data as of February 3, 2023.
The University has 2,957 employees, including students, as of December 2022 with an annual salary expense of $116,786,467.

- 528 full-time faculty
- 192 part-time faculty
- 900 full-time staff
- 97 part-time staff
- 1,240 undergraduate and graduate student employees

Number of current searches in GCOS: 13 faculty, 4 staff
- All departments searching new faculty and/or staff
What makes us special and distinctive (early impressions)...

- GCOS is a special place with special people
  - Great reputation
  - GCOS is strong and a leader at CCU
  - Strong focus on the success of the student
  - Teacher-Scholar Model
  - Experiential Learning
  - Premier STEM education for our students
- Laser focused on STEM – an opportunity
  - 7 strong departments – excellent curriculum
  - Excellent resources/buildings/labs/offices
Current and High-Quality Academic Programs

**Biology**
B.S. Biology with concentrations in:
- Cellular, Molecular Biology, and Genetics
- Ecology, Evolution, and Conservation Biology
- Integrative Biology
B.S. Biology Education (pending)
Minor in Biology

**Chemistry**
B.S. Biochemistry
B.S. Chemistry
B.A. Chemistry – Chem. Education track (pending)
Minor in Chemistry

**Psychology**
B.S. Psychology with concentrations in:
- Behavioral Neuroscience
- Forensics
- Mental Health Concentration (in progress)
Minor in Psychology

**Physics and Engineering Science**
B.S. Applied Physics with concentrations in:
- Astrophysics, Computational Physics, Engineering Physics, Environmental, Nuclear Security, Non-Proliferation
B.S. Engineering Science (ABET accredited) with concentrations in:
- Civil
- Electrical
- Innovation Design
- Physics
B.A. Physics Education (pending)
Minors in Applied Physics and Engineering

**Math and Statistics**
B.S. Applied Mathematics
B.S. Applied Statistics
B.S. Mathematics Education (in development)
Minors in Applied Mathematics and Applied Statistics

**Computing Science**
B.S. Computer Science (ABET accredited)
B.S. Information Systems (ABET accredited)
B.S. Information Technology (ABET accredited)
M.S. Information Systems Technology

**Marine Science**
B.S. Marine Science
B.S. Marine Coastal and Environmental Science (pending)
M.S. Coastal Marine and Wetland Studies
Ph.D. Coastal and Marine Systems Science
Minors in Marine Science, Coastal Geology, and Environmental Science
Experiential Learning – a strength in GCOS

- Experiential Learning – High-Impact Practices (HIPs)
  - American Association of Colleges and Universities (AAC&U)
    - Capstone Courses and Projects
    - Collaborative Assignments and Projects
    - Common Intellectual Experiences
    - Diversity/Global Learning
    - ePortfolios
    - First-Year Seminars and Experiences
    - Internships
    - Learning Communities
    - Service learning
    - Undergraduate research
    - Writing intensive courses

https://www.aacu.org/trending-topics/high-impact
Work Ahead of Us...(Our approach)

• Need to work on our **identity** for the future, our **message**
  • **Lean** in this year into visioning process
  • How we do this together
• Create a **proactive** approach to all we do
  • Initiatives/objectives, budget, curriculum, our policies, our priorities, etc.
• Willing to be experimentalists – *it may not always work!*
  • “Can do approach” – ask the tough questions
• “Rome wasn’t built in a day”! – be patient with each other
• Trust each other that our unified goal is to make Gupta even stronger and the absolute best we can be
Some immediate needs...primary focus

• **Our Vision** – primary goal this year
  • College Visioning and Strategic Planning Committee (ad-hoc)
    • Meet weekly since late October
    • One TT representative per 7 departments, NTT representative, Staff, Dean – 10 person committee
      • Dr. Scott Parker – Biology
      • Ms. Candy Butler (Staff) – Biology
      • Dr. Brett Simpson – Chemistry
      • Dr. Crystal Cox – Computing Sciences
      • Dr. Diane Fribance – Marine Science
      • Dr. Eric Rosch (NTT) – Marine Science
      • Dr. Lindsey Bell – Mathematics and Statistics
      • Dr. Siming Guo – Physics and Engineering Science
      • Dr. Matthew Murphy – Psychology
      • Dr. Chad Leverette - Dean
Some immediate needs...primary focus

• Our Vision
  • “gather widespread feedback” to help formulate a vision, mission, message, and goals for the College
  • Reviewed 14 different SWOT analysis and University/College Strategic Plans
  • Reviewing peer and aspirant institutions
  • Created visioning survey – >7500 potential stakeholders
    • Closes on Feb. 10
    • Currently, 640 completed, 461 pending
    • Current GCOS faculty and staff 99, current GCOS students 210, parents of GCOS students 150, alums 111, other CCU faculty and staff 73, former CCU faculty 6, CCU administrators 9, external partners 15, BOV/donors 2
Some immediate needs...primary focus

• Our Vision
  • Committee to review data (with IR) in late February and March
  • Open College forums to review results and strategic priorities/goals
  • Draft – late March/April
    • Connect with Campus Strategic Plan
Some immediate needs...primary focus

- **Our Communication** – “multifaceted approach” – includes marketing
  - “Internal” and “external” (web, print, digital, video, social media)
- **College Teams** page - 86 posts
  - Share accomplishments, stories, challenges, and opportunities
- **College Recap** email – 15th each month – overall careful use of email
- **Media and Communication Director** – Ms. Wendi Lee
  - Freelance graphic designer (per project) – Ms. Kati Brayton
- **5 social media platforms**
  - Twitter - 32 posts, 98 followers
  - Instagram - 61 posts, 834 followers
  - Facebook - 58 posts, 54 followers
  - Linkedin - 34 posts, 207 followers
  - YouTube - 3 new videos since last fall

@coastalstem
Some immediate needs...primary focus

• Our Communication
  • Website updates (College and Departments) – directory, layout
  • Academic Communication Group – initiative by Provost
    • Research, Teaching, Outreach
  • Kick-Off Meeting and College Objectives
    • 22 objectives identified
• College Calendar
• Town Hall (one per semester)
• College Wrap-Up Meeting (April 27, 9am) and year-end summary report
• Progression – AY2022-2023 issue – in progress
• New marketing materials – tentative this summer (flyers, banners, digital)
Some immediate needs...primary focus

• **Our “One College” Approach** – 7 unified, strong departments and distinctive Centers
  • Work to build advocacy, awareness, appreciation, excitement and support for each other
  • Get to know each other/listen to each other/work together
    • Stronger together
    • Would *love* to attend classrooms, labs, dept. meetings
  • Build community – faculty and staff, celebrate the accomplishments of our people
Some immediate needs...primary focus

• Our “One College” Approach
  • Classroom visits and field trips!! (So awesome! Thank you!)
  • Capstone presentations!
  • College Council – open dialogue/discussion
  • Office of the Dean staff meetings
  • Support existing College Committees
  • BCCMWS – Open House – Nov. 2022
  • AAC&U Transforming STEM – College team in Arlington, VA – Nov 2022
  • Discover Coastal – open house – over 350 prospective STEM students
  • Department seminars (INBRE speakers, NASA/JPL guest)
Some immediate needs...primary focus

- Our “One College” Approach
  - New and Current traditions
    - SCAS Annual Meeting, March 25 – Abstracts due Feb. 24
    - Science Scoop – spring student event – April 4
    - GCOS Faculty/Staff Appreciation Baseball Game – April 6
    - Graduation Send-Off – May 5 - TBD
  - Celebrating accomplishments
    - ABET accreditation event
    - Posts on faculty publications, student awards across departments
  - Consistent ways we can share our College/Departments
    - Distinctive/Unique AND Similar approach
Biology

B.S. Biology with concentrations in:
- Cellular, Molecular Biology, and Genetics
- Ecology, Evolution, and Conservation Biology
- Integrative Biology

B.S. Biology Education (pending)
Minor in Biology

25 Faculty (15 Tenure-Track, 10 Teaching Lecturers)

Representative job placement, graduate school, professional school:
- Binghamton University
- Clemson University
- Duke University
- Stony Brook University
- Virginia Tech University
- SC Dept. of Natural Resources
- US Environmental Protection Agency
- Nephron Pharmaceuticals
- Kansas City Zoo

Representative Medical Programs: College of Medicine Univ. of Florida, Indiana University School of Optometry, Medical University of South Carolina, Kansas State University College of Veterinary Medicine
Department of Computing Sciences

Computing Science
- B.S. Computer Science (ABET accredited)
- B.S. Information Systems (ABET accredited)
- B.S. Information Technology (ABET accredited)
- M.S. Information Systems Technology

Representative job placement, graduate school, professional school:
- Amazon
- Google
- NASA
- Virginia Tech University
- Clemson University
- Georgia Tech

12 Faculty (7 Tenure-Track, 5 Teaching Lecturers)
Department of Marine Science

Marine Science
- B.S. Marine Science
- B.S. Marine Coastal and Environmental Science (pending)
- M.S. Coastal Marine and Wetland Studies
- Ph.D. Coastal and Marine Systems Science
- Minors in Marine Science, Coastal Geology, and Environmental Science

25 Faculty (21 Tenure-Track, 4 Teaching Lecturers)

Representative job placement, graduate school, professional school:
- Northeastern University
- Texas A&M University
- University of Maryland
- Dalhousie University
- Inter University Institute for Marine Science – Eilat (Israel)
- Brown University
- Sea World (animal husbandry/behavioral interaction/science education)
- Disney
- Ripley’s Aquarium
- Naval Research Laboratory
- Savannah River National Laboratory
- NC Division of Natural Resources
- USGS and EPA
Math and Statistics
B.S. Applied Mathematics
B.S. Applied Statistics
B.S. Mathematics Education (*in development*)
Minors in Applied Mathematics and
Applied Statistics

31 Faculty (16 Tenure-Track, 15 Teaching Lecturers)

Representative job placement, graduate school, professional school:
- NC State University
- University of Georgia
- Actuary, Arch Insurance
- Synovous
- Multiple High School/County Systems
Distinctive “Details”
• High percentage of faculty doing undergraduate research
• #1 ranked PUI Biochemistry program in South Carolina
• Student-centered approach to teaching
• Close relationship of students to faculty
  • Success Wall and Victory Bell
  • Events with faculty (end of semester celebratory dinner)
• Chemistry and Biochemistry Club
• Home of SC INBRE for CCU
**Distinctive “Details”**

- Student-centered is the *priority*
- Teaching focused on research-based, inclusive approaches to STEM learning
  - SCALE-UP
  - Tutoring Center
  - Physics and Engineering Club
- Internships and Capstone projects
- Robotics outreach to high schools
- Undergraduate research areas: Radio Astronomy, Radiation Transport, Electron Spin Transport, Remote Sensing, Computer Vision, Fluid Dynamics

**Representative job placement, graduate school, professional school:**

- AECOM
- Clemson University
- Diamond Shores
- DMA Sales, LLC
- G3 Engineering and Surveying
- George Washington University
- Pike Engineering
- SafeRack – SixAxis Manufacturing Technologies
- Teknoware, Inc.
- Texas A&M University
- Virginia Commonwealth University

33 different partners for internship placement!
Distinctive “Details”
• Close interaction with faculty through teaching and research
• Small class sizes
• Research sequence of courses – leads to student mentored research opportunities
• Many internships available for credit
  • Over 45 different partners for internship placement!
• Psi Chi Honor Society and PSYC Club for student involvement
Curriculum

Curriculum discussions
• MAT program alternatives
• ABET – Engineering Science
• MCES – Marine Science
• Mental Health Concentration – Psychology
• Master’s degree proposal – Biology
• ACS approval process – Chemistry
• Cyber? – more of an interdisciplinary approach perhaps? – Computing Science

Graduate Programs
• Understanding needs, issues, challenges – *a lot more to do here*
• Graduate student travel – *in discussion*
• Commencement and recognitions – *in discussion*
• Long-term plan for graduate programs – *in discussion*
• Working with College of Graduate and Continuing Studies
Refining our processes...

- Budget workflow - *Done*
  - Purchasing, lab fees, grants, start-up, travel
    - Empower departments/chairs with department budget authority
- Personnel/staffing issues – how and when we recruit faculty and staff
  - Budget decisions and discussion with College Council for searches
  - CUPA
  - Working to speed up processes for hires
- Searches for this year – help in critical needs areas, overload issues
  - Rationale shared with College
  - Working to get us fully staffed
  - Hiring Guide – *summer 2023*
- Aligning staff responsibilities in Office of the Dean - *Done*
Refining our processes...

• Travel (domestic and international) process for faculty and students - Posted
• Course buyout process – *Almost complete, will be posted spring 2023*
• P&T dates - *Posted*
• P&T summary documents – *Drafts in review – will be posted spring 2023*
• Letters of expectations process and P&T expectations across College - *Drafts*
  • Process – improve consistency, add clarity
    • All departments follow *College Handbook* and *Faculty Manual*
    • 4 departments with additional guidelines, 3 departments use LOE only
  • Depth and range of activities in teaching, scholarship, and service across the College
Refining our processes...

• Suggestions for College Handbook Committee to discuss/review – almost complete, will be shared with Committee for review/discussion
• Working with University offices – Legal, HR, Marketing/Comm, OSPRS
• Faculty and Chair evaluation process – dates, submission – in progress
  • Help process be more constructive and helpful to faculty at all points in their career
  • Ensure that faculty/chairs have evaluations for promotion processes
Partnerships and Major Gifts

• Significant donation (in progress)
  • Could support scholarships and funds for experiential learning
• Elizabeth R. Borkowski Annual Program Fund
  • $250,000 pledge – MSCI - $50,000/year, 5 years
• 41 new external partners/contacts – industry/government
• Renewed MOUs
• BOV re-engaged, expanded membership – 11 total
  • Mr. Sunny Gupta, Dr. Tom Mullikin, Mr. Cody Thompson
  • Meeting in late March
New initiatives to support Undergraduate Research

- Research Fellows Program – applications due April 15
  (https://www.coastal.edu/science/researchfellowsprogram/)
- Working with GA Tech and NYU on possible new way to scale-up opportunities for students and support faculty-mentored undergraduate research

Professional Development Support

- Faculty mini-grants – all received applications (41) funded
  - Total faculty supported – 35 (total – $29,114.33)
  - Domestic and International Travel
- Student support
- SCAS Annual Meeting – Abstracts due Feb 24
  - Meeting is March 25, 2023 at MUSC in Charleston – paid by College
Additional efforts...

Resource/Infrastructure Support
- Scientific equipment, instrumentation, and marine vessel inventory
  - Over $6.4 million in equipment/instrumentation/vessels
    - Current value is ~$3.8 million
  - Working on a potential College fund that would allow us to better support new equipment purchasing, repairs of equipment and vessels
- Expand request for technology fees
- Boat usage and fee structure

Waties Opportunity
- Incredible interest from State of South Carolina - timely
- OSI and Boyce Family
- GCOS Waties strategy for CCU to steward the island
  - Protection, Education, Research
Additional efforts...

Promotion and Tenure – AY2022-2023

- 3 promotion and tenure – Assoc. Professor
- 2 promotion to full Professor
- 9 post-tenure review
- 0 post-promotion, 0 promotion to Sr. Lecturer
- 3 third year review - process starting now

New and continuing strategy/initiatives recruiting STEM and community outreach

- July 21 – “STEM Day” – college-wide initiative
  - Local high school students
- March 6 – Travel to New England states
- Pelican’s “STEM Night” – April 21 – partnership with Spadoni College
  - Horry County Technology Fair
- MathCounts – partnership with Spadoni College
- Mobile planetarium
Additional efforts...

Structure
• School of the Coastal Environment
• Departmental administrative positions – increase clarity in position and roles

Intentional interactions with Freshmen
• Guest lecture/speaker at 32 sections of UNIV 110
  • Why STEM?
  • First in family in STEM?
  • How to have resilience?
Questions? Post to Teams, Email, Come by

cleverett@coastal.edu

@CCUScienceDean