Dear CoSE Faculty and Staff,

Happy New Year and new semester. Although things are far from settled, I have a sense of optimism about the future and a hope that we will return to something approaching normal when the fall semester begins. I remain grateful for your hard work and perseverance during this academic year and your continued dedication to our students to the mission of Idaho State University.

The pandemic has challenged all of us personally, our university community, this nation and our world. Our professional and personal interactions have been changed in ways we once couldn’t imagine. But all of you have pulled together and done the serious work of educating our students. When at all possible you have supported our students in person and when not possible, you have found novel ways to deliver a high-quality education.

There is exciting work ahead of all of us. Research awards in the College are up dramatically and there is a resurgence in the number of proposals being submitted. We have emphasized our academic functions and plan to hire as many as eight new faculty to start next fall. We are working closely with regional industry to identify new funding to support our students and our research. Our budget promises to remain flat, which is good news in light of the last year, and I will be reaching out to all of you to discuss college priorities for additional budget requests. That pandemic caused us to put discussions of the organization of the college on hold but I hope to engage in those conversations in the fall as we strive to build and grow our college.

What follows is an overview of the College of Science and Engineering. I thought you might appreciate a concise look at CoSE as we collectively identify challenges and opportunities. Many thanks to the Dean’s Office team for putting this together. Many thanks to each and every one of you for all you do.

Sincerely,

Scott D. Snyder, Ph.D
Dean
COLLEGE OVERVIEW

STUDENT CREDIT HOUR PRODUCTION

Total Student Credit Hours 28,498

BUDGET

Annual Budget $16,500,000
% of Budget Allocated for Personnel 95%

Based on Fall 2020 data

ENROLLMENT

Total Student Enrollment 1,289
Undergraduate Enrollment 1,108
Graduate Enrollment 181
*Engineering & Applied Science Interdisciplinary Ph.D. 19
Female Students 434
Male Students 854
International Students 79 (31 countries)
Non-resident Students 82 (24 states)
ADVISORY BOARD
MEMBERS

Dr. Wendy Bailey
Senior Researcher
Merck, Inc.

Bob Boston
Idaho Operations Manager
Department of Energy

Dr. Jeff Geslin
Tech Lead
Retired, Exxon Mobile

Hatch Graham
Managing Director
ATA Ventures

John Kent
Executive Vice President
Skywater Technologies

Chris Leichtweis
President and CEO
North Wind Group

Alan Prouty
VP of Environmental and
Regulatory Affairs, Simplot

Dr. Julie Robinson
Space Station Chief Scientist
NASA

Brent Stacey
Senior Advisor
Idaho National Laboratory

Zachary D. Tudor
Associate Laboratory Director
National and Homeland Security
Idaho National Laboratory
Degree Programs

Bachelor of Arts in Biology
  Biology Education or Natural History

Bachelor of Science
  Biology with a concentration in:
  - Biomedical Sciences
  - Ecology and Conservation Biology
  - Integrative Organismal Biology

  Biochemistry
  Microbiology

Master of Science
  Biology
  Microbiology

Doctor of Arts in Biology

Ph.D.
  Biology
  Microbiology

424 Majors
32 Master’s students; 16 Ph.D./DA students

27 Tenured/tenure-track faculty
9 Instructional faculty

Department student credit hours: 17,666

Student credit hours/faculty: 491/1

Majors/faculty: 13/1

isu.edu/biology
45 Majors
3 Master’s students
8 Tenured/tenure-track faculty
6 Instructional faculty
Department student credit hours: 7,111
Student credit hours/faculty: 508/1
Majors/faculty: 3/1
isu.edu/chem

Degree Programs
Bachelor of Arts in Chemistry
Bachelor of Science Chemistry
Biochemistry
Combined Bachelor of Science and Master of Science Chemistry
Biochemistry
Master of Science in Chemistry

CHEMISTRY
Degree Programs

Bachelor of Science in Computer Science

Master of Science in Computer Science

175 Majors
2 Master’s students
5 Tenured/tenure-track faculty

Department student credit hours: 1,797
Student credit hours/faculty: 359/1
Majors/faculty: 35/1

isu.edu/cs
50 Majors
19 Master’s students; 8 Ph.D. students
9 Tenured/tenure-track faculty
2 Instructional faculty
Department student credit hours: 2,733
Student credit hours/faculty: 248/1
Majors/faculty: 7/1

isu.edu/geology

Degree Programs

Bachelor of Arts
  Earth and Environmental Systems
  Geology

Bachelor of Science
  Earth and Environmental Systems
  Geology

Post-Baccalaureate GeoTechnology Certificate

Master of Science
  Geographic Information Science
  Geology
  Geology with Emphasis in Environmental Geosciences

Ph.D.
  Engineering and Applied Science
  Geosciences
Degree Programs

Associate of Science in Mathematics

Bachelor of Science
  Mathematics
  Applied Mathematics
  Statistics

Master of Science in Mathematics

Master of Arts for Secondary Teachers in Mathematics

Doctor of Arts in Mathematics

Ph.D. in Engineering and Applied Science

33 Majors
3 Master’s students; 1 DA student

13 Tenured/tenure-track faculty
13 Instructional faculty

Department student credit hours: 16,812

Student credit hours/faculty: 646/1

Majors/faculty: 1/1

isu.edu/math
27 Majors
6 Master’s students; 7 Ph.D. students

6 Tenured/tenure-track faculty
2 Instructional faculty

Department student credit hours: 3,905
Student credit hours/faculty: 488/1
Majors/faculty: 5/1

isu.edu/physics

Degree Programs

Associate of Science in Physics
Bachelor of Arts in Physics
Bachelor of Science in Physics
Master of Science in Physics
Ph.D. in Applied Physics
Degree Programs

Bachelor of Science in Civil Engineering

Master of Science
- Civil Engineering
- Environmental Engineering
- Environmental Science and Management

Ph.D. in Engineering and Applied Science

78 Majors
12 Master's students*

5 Tenured/tenure-track faculty
1 Instructional faculty

Department student credit hours: 2,409

Student credit hours/faculty: 402/1

Majors/faculty: 15/1

isu.edu/cee
70 Majors
Graduate Students*

4 Tenured/tenure-track faculty
1 Instructional faculty

Department student credit hours: 870

Student credit hours/faculty: 174/1

Majors/faculty: 14/1

isu.edu/ece

Degree Programs

Bachelor of Science in Electrical Engineering

Master of Science in Measurement and Control Engineering

Ph.D. in Engineering and Applied Science
Degree Programs

Bachelor of Science in Mechanical Engineering

Master of Science
   Mechanical Engineering
   Measurement and Control Engineering

Ph.D. in Engineering and Applied Science

139 Majors
10 Master’s students*

4 Tenured/tenure-track faculty
2 Instructional faculty

Department student credit hours: 2,360

Student credit hours/faculty: 393/1

Majors/faculty: 25/1

isu.edu/me
72 Majors
21 Master’s students; 22 Ph.D. students
8 Tenured/tenure-track faculty
Department student credit hours: 1,011
Student credit hours/faculty: 126/1
Majors/faculty: 14/1

Degree Programs
Bachelor of Science
Health Physics
Nuclear Engineering
Graduate Certificate Program in Applied Nuclear Energy
Master of Science
Health Physics
Nuclear Science and Engineering
Ph.D. in Engineering and Applied Science
Ph.D. in Nuclear Science and Engineering

isu.edu/ne
isu.edu/hp
RESEARCH ACTIVITY

Awards

<table>
<thead>
<tr>
<th>Year</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>AY 2020</td>
<td>$9,155,515</td>
</tr>
<tr>
<td>AY 2019</td>
<td>$6,356,550</td>
</tr>
<tr>
<td>AY 2018</td>
<td>$6,376,327</td>
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</tbody>
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Top 10 Awarding Agencies in 2020

- National Science Foundation $4,033,335
- Battelle Energy Alliance LLC $2,001,329
- US Nuclear Regulatory Commission $512,606
- Wastren Advantage Inc. $456,372
- Idaho Dept. of Environmental Quality $393,399
- National Institutes of Health $358,752
- Idaho State Board of Education $271,400
- State of Idaho Military Division $208,091
- City of Pocatello $166,779
- U.S. Dept. of the Interior $138,974

FUNDRAISING ACTIVITY

- 82 Endowments totaling $4,390,000

Largest Endowments for 2020

- James Stephens Geology Scholarship $633,000
- James Morris Stream Ecology Fund $510,000
- Richard Dues Biology Scholarship $263,000
- John Volker CoSE Scholarship $244,000
- Tom Sherwood CoSE Scholarship $211,000
- Jeff Geslin Geology Fund $140,000
- James Stephens Geology Scholarship $633,000
- James Morris Stream Ecology Fund $510,000
- Richard Dues Biology Scholarship $263,000
- John Volker CoSE Scholarship $244,000
- Tom Sherwood CoSE Scholarship $211,000
- Jeff Geslin Geology Fund $140,000

Dean’s Initiatives

- STEM IS U Scholarship for Underrepresented Groups $165,000
- Dean’s Excellence Fund $139,000

DEVELOPMENT PRIORITIES

- Cultivate endowed scholarships for students.
- Enhance educational and research infrastructure within the college.
- Inaugurate endowed professorships.
- Advance relationships with industry partners.