College Update & Overview

http://engineering.colorado.edu

Design Expo at the ITL Laboratory

Bioengineering Research in the DLC

Presentation to Engineering Advisory Council on 9/26/08 by Robert H. Davis, Dean, College of Engineering & Applied Science
New Chair & Directors

Tim Brown
Interdis. Telecomm.

Jeff Forbes
Aerospace

Jana Milford
GoldShirt

Daria Kotys-Schwartz
CU-MSC
New Faculty in AY08-09

Aerospace Engr Sci
   Joe Tanner, Sr Inst

Chemical & Bio Engr
   Arthi Jaryaman, Asst Prof
   Charles Musgrave, Assoc Prof
   Mark Stoykovich, Asst Prof

Civil, Env & Arch Engr
   Matt Hollowell, Asst Prof
   Gregor Henze, Prof
   Abbie Liel, Asst Prof
   John McCartney, Asst Prof
   Fernando Rosario-Ortiz, Asst Prof

Computer Science
   Evan Chang, Asst Prof
   Christine Lv, Asst Prof

Engineering Management
   Kurt Smith, Scholar in Res

GoldShirt
   Karen King, Instructor

Herbst Humanities
   Hardy Fredricksmeyer, Instructor

Interdisciplinary Telecom
   Valerie Yates, Scholar in Res

Mechanical Engr
   Scott Bunch, Asst Prof
   Olivier Desjardines, Asst Prof
   Yifu Ding, Asst Prof
   Daven Henze, Asst Prof
   John Pellegrino, Res Prof
   Mark Rentschler, Asst Prof
   Tim Scott, Asst Res Prof

7 of 15 new tenure-track hires are growth lines
Named Faculty Appointments

Keith Molenaar
Stanton Lewis
Chair

Bill Yearsley
Petry Professor

Dan Scheeres
Seebass Chair

I-CUE Faculty Fellowships:
Barry: John McCartney
Donnelly: Aaron Bradley
Jacobs: Aaron Saunders
Liebman: Karl Linden

McAnally: Ryan Starkey
A. Sanders: Ronggui Yang
ConocoPhillips: Will Medlin
Faculty
♦ 184 tenure-track faculty, including 15 budgeted elsewhere
♦ 20 full-time instructional faculty
♦ 6 full-time research faculty

Students
♦ 3022 undergraduates (20% women)
♦ 1,233 graduate students (22% women) incl. 179 prof. master’s
♦ 549 Bachelor’s, 306 Master’s & 74 PhD degrees in FY08

Departments
♦ Aerospace Engineering Sciences
♦ Chemical & Biological Engineering
♦ Civil, Environmental & Architectural Eng.
♦ Computer Science
♦ Electrical & Computer Engineering
♦ Mechanical Engineering

Academic and Support Programs
♦ Applied Mathematics
♦ Engineering Management
♦ Engineering Physics
♦ Environmental Engineering
♦ Telecommunications
♦ Engineering Honors
♦ Goldshirt
♦ Herbst Humanities
♦ Multicultural Engineering
♦ Women in Engineering
Measures of Excellence

- **US News & World Report rankings**
  - 8/08 Undergraduate Ranking: 35 (20 among publics)
  - 4/08 Graduate Ranking: 39 (23 among publics)
  - 4 graduate programs in top 25 – Aerospace: 15 (10), Chemical: 19 (10), Civil: 24 (15), Environmental: 19 (12)

- 49 young faculty awards from the National Science Foundation

- 10 members of the National Academy of Engineering

- 2004 NSF Waterman Award to Kristi Anseth & NAE Gordon Prize to Frank Barnes in 2004 and to Larry Carlson & Jackie Sullivan in 2008
<table>
<thead>
<tr>
<th>Year (Fall)</th>
<th>2003</th>
<th>2004</th>
<th>2005</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
</tr>
</thead>
<tbody>
<tr>
<td># applied</td>
<td>2630</td>
<td>2599</td>
<td>2474</td>
<td>2679</td>
<td>3206</td>
<td>3726</td>
</tr>
<tr>
<td>% admitted</td>
<td>73%</td>
<td>75%</td>
<td>72%</td>
<td>67%</td>
<td>64%</td>
<td>59%</td>
</tr>
<tr>
<td># enrolled</td>
<td>610</td>
<td>633</td>
<td>669</td>
<td>654</td>
<td>731</td>
<td>758</td>
</tr>
<tr>
<td>% women</td>
<td>14%</td>
<td>17%</td>
<td>18%</td>
<td>18%</td>
<td>22%</td>
<td>20%</td>
</tr>
<tr>
<td>% URM</td>
<td>5.7%</td>
<td>7.2%</td>
<td>9.0%</td>
<td>7.5%</td>
<td>9.0%</td>
<td>7.1%</td>
</tr>
<tr>
<td>Avg HS gpa</td>
<td>3.69</td>
<td>3.72</td>
<td>3.71</td>
<td>3.75</td>
<td>3.79</td>
<td>3.79</td>
</tr>
<tr>
<td>Avg ACT</td>
<td>27.3</td>
<td>27.5</td>
<td>27.3</td>
<td>27.8</td>
<td>28.0</td>
<td>28.3</td>
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<tr>
<td>Tot. enrolled</td>
<td>2667</td>
<td>2736</td>
<td>2739</td>
<td>2755</td>
<td>2914</td>
<td>3022</td>
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### Graduate Enrollments

<table>
<thead>
<tr>
<th>Year (Fall)</th>
<th>2003</th>
<th>2004</th>
<th>2005</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
</tr>
</thead>
<tbody>
<tr>
<td># applied</td>
<td>2087</td>
<td>1666</td>
<td>1358</td>
<td>1477</td>
<td>1681</td>
<td>1728</td>
</tr>
<tr>
<td>% admitted</td>
<td>55%</td>
<td>56%</td>
<td>62%</td>
<td>61%</td>
<td>58%</td>
<td>55%</td>
</tr>
<tr>
<td># new enrolled</td>
<td>269</td>
<td>240</td>
<td>221</td>
<td>242</td>
<td>247</td>
<td>241</td>
</tr>
<tr>
<td>Avg. Q. GRE</td>
<td>753</td>
<td>757</td>
<td>744</td>
<td>756</td>
<td>758</td>
<td>754</td>
</tr>
<tr>
<td>Reg. MS stud.</td>
<td>461</td>
<td>461</td>
<td>399</td>
<td>388</td>
<td>382</td>
<td>370</td>
</tr>
<tr>
<td>Reg. PhD stud.</td>
<td>485</td>
<td>500</td>
<td>491</td>
<td>488</td>
<td>493</td>
<td>533</td>
</tr>
<tr>
<td>% women</td>
<td>24%</td>
<td>22%</td>
<td>23%</td>
<td>24%</td>
<td>24%</td>
<td>23%</td>
</tr>
<tr>
<td>% URM</td>
<td>5.0%</td>
<td>5.6%</td>
<td>4.4%</td>
<td>5.4%</td>
<td>5.0%</td>
<td>5.0%</td>
</tr>
<tr>
<td>% foreign</td>
<td>35%</td>
<td>30%</td>
<td>28%</td>
<td>31%</td>
<td>29%</td>
<td>31%</td>
</tr>
<tr>
<td>Prof. MS stud.</td>
<td>383</td>
<td>281</td>
<td>244</td>
<td>283</td>
<td>331</td>
<td>330</td>
</tr>
</tbody>
</table>
Fall 2007 data:

AES: 26 fac, 391 ugrad, 110 grad  
ChBE: 18 fac, 363 ugrad, 91 grad  
CEAE: 34 fac, 527 ugrad, 178 grad  
CS: 26 fac, 235 ugrad, 166 grad  
ECE: 40 fac, 316 ugrad, 233 grad  
ME: 23 fac, 589 ugrad, 95 grad
Diversity Data

<table>
<thead>
<tr>
<th></th>
<th>Female Ugrad</th>
<th>Female Grad</th>
<th>Female Fac</th>
<th>URM Ugrad</th>
<th>URM Grad</th>
<th>URM Fac</th>
</tr>
</thead>
<tbody>
<tr>
<td>CU</td>
<td>17.7%</td>
<td>22.8%</td>
<td>15.9%</td>
<td>7.4%</td>
<td>5.6%</td>
<td>5.1%</td>
</tr>
<tr>
<td>Natl Avg</td>
<td>17.4%</td>
<td>22.2%</td>
<td>11.3%</td>
<td>15.1%</td>
<td>5.3%</td>
<td>5.9%</td>
</tr>
</tbody>
</table>

Fall 2006 data reported by ASEE and EWC
Contract & Grant Awards

FY08: AES: 10.2M ChBE: 9.4M CEAE: 5.3M CS: 3.0M ECE: 6.0M ME: 7.6M Other: 1.2M Total: 42.7M