Session Agenda

- Introduction to the College
- Typical first semester
- Beyond academics
- Suggestions for student success
## College of Engineering Enrollment

<table>
<thead>
<tr>
<th>Department</th>
<th>Undergraduate Enrollment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agricultural &amp; Biosystems Engineering</td>
<td>75 (+58)</td>
</tr>
<tr>
<td>Civil &amp; Environmental Engineering</td>
<td>353</td>
</tr>
<tr>
<td>Construction Engineering &amp; Management</td>
<td>238</td>
</tr>
<tr>
<td>Computer Science</td>
<td>440</td>
</tr>
<tr>
<td>Electrical &amp; Computer Engineering</td>
<td>447</td>
</tr>
<tr>
<td>Industrial &amp; Manufacturing Engineering</td>
<td>159</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>778</td>
</tr>
<tr>
<td><strong>Total Undergraduate</strong></td>
<td><strong>2490</strong></td>
</tr>
<tr>
<td><strong>Total Graduate</strong></td>
<td><strong>190</strong></td>
</tr>
</tbody>
</table>

*Spring 2019 Enrollment Report*
NDSU and College Leadership

President
Dean Bresciani

Provost
Ken Grafton

Dean
Mike Kessler

VP Research
Jane Schuh
# Typical First Semester

<table>
<thead>
<tr>
<th>Courses (total: 15-18 credits)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math 105/165/166</td>
<td>3-4 cr</td>
</tr>
<tr>
<td>Chemistry 121(L) or other science</td>
<td>3+1 cr</td>
</tr>
<tr>
<td>English 110/120</td>
<td>3-4 cr</td>
</tr>
<tr>
<td>General Education Elective(s)</td>
<td>3 cr</td>
</tr>
<tr>
<td>Intro for Major</td>
<td>2-3</td>
</tr>
</tbody>
</table>

| Trig or Calculus                                           |
| Intro to Chemistry                                         |
| English Composition                                        |
| Comm/Humanities                                            |
| [Major-specific]                                           |
Undecided Engineering Students

1) Intro to Engineering (ENGR 111) 1 credit
2) Engineering & Tech Expo – September 25
3) Program-related Clubs and Organizations
4) Student Involvement Expo – September 4
How can parents help?

Encourage involvement

- 33 College of Engineering clubs and organizations
- Undergraduate research
- Sports/intramurals
- Music – choral and instrumental
- Work (on and off campus)
- Fall and Spring Career Fairs/Events

*Campus involvement enhances communication, teamwork, problem solving, and leadership skills while providing excellent networking opportunities.*
**WHY** students should get involved...

**What Google looks for when hiring**

1. Ability to learn
2. Leadership
3. Humility
4. Ownership
5. Technical expertise

**What Google looks for when promoting**

1. Coaching
2. Empowering
3. Empathy
5. Communication/ listening
8. Technical expertise
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Am Soc of Civil Eng</td>
<td>Am Soc of Mech Eng</td>
<td>Am Water Works Assoc</td>
<td>Assoc Gen Contractors of America</td>
<td>Assoc for Computing Machinery</td>
</tr>
<tr>
<td>Bison Pullers</td>
<td>Bison Robotics</td>
<td>Cybersecurity Student Organization</td>
<td>Engineering Ambassadors</td>
<td>Eng in Medicine &amp; Biol Sciences</td>
</tr>
<tr>
<td>Engineers Without Borders</td>
<td>Inst Electrical &amp; Electronic Engineers</td>
<td>Inst of Industrial &amp; Systems Eng</td>
<td>Inst of Transportation Engineers</td>
<td>Materials Research Society</td>
</tr>
<tr>
<td>Nat Assoc of Home Builders</td>
<td>Nat Soc of Black Engineers</td>
<td>Society of Automotive Engineers</td>
<td>Society of Women Engineers</td>
<td>Tau Beta Pi</td>
</tr>
</tbody>
</table>
Grand Challenge Scholars Program

1 of 25 National Academy of Engineering programs
20 freshmen recruited per year
14 Grand Challenges

Required components:
1. Research experience
2. Interdisciplinary curriculum
3. Entrepreneurship
4. Global dimension
5. Service learning
My Recommendations

Find and make value:
Connections, professionalism, work ethic

Be ready to work:
Study, persevere

Show up:
class, office hours, tutoring, events, club meetings
Computer Recommendations

• Not mandatory but helpful
• Laptops most common
• PC vs Mac – PCs are more common in industry
• Common Use
  – Research
  – Reports
  – Communication
  – Access to Blackboard and other system tools
  – Entertainment
• Engineering computing clusters: 24/7 accessibility with specific software
Thank you for choosing NDSU Engineering!

QUESTIONS?