Civil Engineering students learn to apply mathematics, physical sciences, and fundamentals of engineering mechanics to research, plan, design, construct, manage, and maintain one-of-a-kind infrastructure systems such as roads, airports, tunnels, bridges, and seaports; residential, office, commercial, and manufacturing buildings; water supply and reclamation networks; and power generation and distribution facilities. They are also involved in projects to improve the environment by designing solutions to air pollution, waste water treatments, and soil contamination remediation.

**QUICK FACTS:**
- 31 faculty members
- 73 undergraduate students
- 25 students per course on average

**HOW STUDENTS report that they SPEND THEIR TIME**

<table>
<thead>
<tr>
<th>Activity</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Giving/preparing for presentations</td>
<td>10%</td>
</tr>
<tr>
<td>Group projects</td>
<td>10%</td>
</tr>
<tr>
<td>Working on problem sets</td>
<td>15%</td>
</tr>
<tr>
<td>Studying for/taking written exams</td>
<td>10%</td>
</tr>
<tr>
<td>Building things</td>
<td>10%</td>
</tr>
<tr>
<td>Working in a Lab</td>
<td>5%</td>
</tr>
<tr>
<td>Computer programming</td>
<td>5%</td>
</tr>
<tr>
<td>Computer programming</td>
<td>5%</td>
</tr>
<tr>
<td>Group projects</td>
<td>10%</td>
</tr>
<tr>
<td>Giving/preparing for presentations</td>
<td>10%</td>
</tr>
</tbody>
</table>

**5 CHALLENGES in the NEXT 5 YEARS**
1. Energy Independence
2. Water Supply
3. Climate Change
4. Infrastructure Rehab & Renewal
5. Public Awareness of Engineering

**UPPERLEVEL COURSES**
- Civ Env 395 - 0, Section 20: Engineering Forensics
- Civ Env 495: Structural Dynamics and Earthquake Engineering
- Civ Env 330: Construction Management
- Civ Env 385 –1, 2, 3: Architectural Engineering and Design

**RESEARCH AREAS**
- Geotechnics (Soils, retaining structures)
- Mechanics of Materials and Solids
- Structural Engineering and Infrastructure Materials
- Transportation Systems Analysis and Planning

**INDUSTRY: Examples of Positions held by ’12 Grads**
- Engineering Management Trainee, CN Railroad
- Associate Project Manager, Ryan Companies
- Project Engineer, Walsh Construction
- Staff Engineer II, T.Y. Lin International
- Project Controls Specialist, Arcadis U.S.

**PLANS of GRADUATING SENIORS ’08-’12**
(reported at time of graduation)

- Industry
- MS
- PhD
- JD
- MA
- Additional Study
- Military
- Plans Pending

**STUDENTS SAY**
I love my major because I get to learn how things are built and because it is very hands on.
—Nick Brandis, ’15

**RECENT ALUMNUS**
The NU Civil Engineering program develops your skillset to differentiate you from the norm; this opens doors to extraordinary opportunities. My NU experience prepared me for my current position as a Structural Engineer designing seismic retrofits in Christchurch, New Zealand (a city that has been devastated by earthquakes in the past couple years).
—Jeff Meissner, ’09

Last Updated on: May 2, 2013

Learn More