

# National Student Leadership Conference

## Engineering Intensive

### San Francisco, CA

#### Program Overview & Sample Daily Schedule

*The following Program Overview and Sample Daily Schedule are designed to give you a better understanding of the activities in a typical session as well as the flow of a typical day. This is a sample schedule based on past programs. While not all sessions are exactly the same, this is reflective of activities that take place during the program.*

#### Program Overview

##### Day 1

- Registration
- Campus Tours
- Opening Ceremony
- TA Group Orientation

##### Day 2

- Lecture Series: Intro to Civil Engineering
- Leadership Challenge Course
- Leadership Series: Mission Statements and Goal Setting
- Social

##### Day 3

- Lecture Series: Intro to Environmental Engineering
- Leadership Series: Personality Styles
- Engineering Project: Water Filtration Systems
- Social

##### Day 4

- Facility Visit: AutoDesk Gallery
- Lecture Series: Intro to Materials Science
- Engineering Project: Product Pitch
- Product Development
- Social

##### Day 5

- Site Visit: UC Berkeley College of Engineering
- Design Challenge: Piezoelectric Generator
- Engineering Ethics
- Engineering: Underwater ROV
- Product Development

##### Day 6

- Lecture Series: College Panel
- Lecture Series: Intro to Industrial Engineering
- Engineering Expo
- Social

##### Day 7

- Lecture Series: Intro to Mechanical Engineering
- Design Challenge: Trebuchets & Catapults
- Leadership Activity: Dyadic Encounter
- Social

##### Day 8

- Lecture Series: Intro to Aerospace Engineering
- Design Challenge: Gliders
- Leadership Series: Leadership Wrap-up
- Trip: Ghirardelli Square
- Leadership Activity: Communication Towers

##### Day 9

- Facility Visit: Levi Stadium
- Engineering Project: Product Pitch
- Leadership Series: Group Dynamics
- Social

##### Day 10

- Lecture Series: Intro to Bioengineering and Biomedical Engineering
- Leadership Series: Communication Styles
- Engineering Project: Wind Turbines
- Engineering Lab: Breadboarding
- Trip: Pier 39

##### Day 11

- Engineering Project: Bionic Arm
- Lecture Series: Intro to Electrical Engineering
- Engineering Project: Underwater ROV
- Social

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### Day 12

- Lecture Series: Intro to Computer Engineering
- Engineering Rotations:
  - Circuits
  - Digital Logic
  - Programming
  - Soldering
- Engineering Project: Product Pitch

### Day 13

- Lecture Series: Intro to Computer Science
- Engineering Project: Line-Following Car
- Engineering Project: Underwater ROV
- Social

### Day 14

- Facility Visit: Tech Museum of Innovation
- Lecture Series: Grand Challenges of Engineering
- Project Development

### Day 15

- Engineering Project: Underwater ROV Final Competition
- Project Development
- Social

### Day 16

- Engineering Project: Line-following Car Final Competition
- Engineering Project: Product Pitch
- Guest Speaker

### Day 17

- Leadership Series: What I've Discovered
- Engineering Project: Product Pitch Final Presentations
- Final Social

### Day 18

- Closing Team Meetings
- Closing Ceremonies
- Departures

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### Sample Daily Schedule

#### Day 10

<b>7:30am-8:15am</b>	<b>Breakfast</b>
<b>9:00am-10:30am</b>	<b>Leadership Series: Communication, Dialogue, and Discussion</b> <i>Neat Attire</i>
<b>10:45am</b>	<b>Board Buses</b>
<b>11:30am-2:00pm</b>	<b>San Francisco's Pier 39 Lunch on your own</b> <i>Casual Attire</i>
<b>2:15pm</b>	<b>Board Buses</b>
<b>2:45pm-4:00pm</b>	<b>Engineering Project: Wind Turbines</b> <i>Casual Attire with Closed-Toed Shoes</i>
<b>4:15pm</b>	<b>Board Buses</b>
<b>5:00pm - 6:30pm</b>	<b>Dinner</b>
<b>6:45pm – 8:00pm</b>	<b>Lecture Series: Intro to Bioengineering Mr. Terry Johnson Assistant Teaching Professor UC Berkeley College of Engineering</b> <i>Neat Attire</i>
<b>8:00pm-9:00pm</b>	<b>Engineering Lab: Breadboarding 101</b> <i>Neat Attire (Closed toe shoes required)</i>
<b>9:00pm-10:00pm</b>	<b>Pizza Social</b> <i>Casual Attire</i>
<b>10:30pm</b>	<b>Floor Check</b>