

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: Bridge Project
- 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: Dye-Sensitized Solar Cell
- 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
- Facility Visit: Food Service Technology Center

Day 8

- Lecture Series: Intro to Aerospace Engineering
- Design Challenge: Gliders
- Leadership Series: Leadership Wrap-up
- Trip: Ghiradelli Square

Day 9

- Field Trip: Six Flags Discovery Kingdom
- 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: Arduino EKG
- Lecture Series: Intro to Electrical Engineering
- Engineering Project: Underwater ROV
- Social

Day 12

- Lecture Series: Intro to Computer Engineering
- Engineering Rotations:
 - Circuits
 - Breadboarding
 - Programming
 - Soldering

National Student Leadership Conference

Engineering Intensive

San Francisco, CA

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

National Student Leadership Conference

Engineering Intensive

San Francisco, CA

Sample Daily Schedule

Day 10

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