

## Class Day 1

### AM

09:00-10:30

Introduction to CSA and SKIES

09:30-12:00

Humanities I : formulating questions

### PM

12:00-13:00

Lunch

13:00-14:30

Plant lab tour

14:30-17:00

Element cycles and ecosystems

## Class Day 2

### AM

09:00-10:30

Soil sample collection

10:30-12:00

Nitrogen/phosphorous/potassium testing

### PM

12:00-13:00

Lunch

13:00-14:30

Light tables

14:30-16:00

Humanities II: organizing ideas into a story

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\*Program fee does not include airfare, subway tickets, and/or fee-based activities

## California Institute of Technology CSA International Program

16:00-17:00

Enrichment activities

### Class Day 3

#### AM

09:00-10:30

What's in there? Learning about spectroscopy

09:30-12:00

Measuring color, learning how to use your colorimeter

#### PM

12:00-13:00

Lunch

13:00-14:30

Reproduce colors by mixing concentrated dyes

14:30-16:00

Humanities III: creating a persuasive argument

16:00-17:00

Enrichment activities

### Class Day 4

#### AM

09:00-10:30

How much is in there? Beer's Law activity

09:30-12:00

Serial dilution and effective range

#### PM

12:00-13:00

Lunch

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## California Institute of Technology CSA International Program

13:00-14:30

Standard curves and estimating dye content

14:30-16:00

Light tables

16:00-17:00

Guide to applying to universities

### Class Day 5

#### AM

09:00-10:30

Water sample collection

09:30-12:00

Measuring ammonia in water

#### PM

12:00-13:00

Lunch

13:00-14:30

Humanities V: creating a job description

14:30-16:00

Humanities VI: creating a cover letter

16:00-17:00

Enrichment activities

### Class Day 6

#### AM

09:00-10:30

Principles of fluid dynamics

09:30-12:00

Two faces of fluids

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## California Institute of Technology CSA International Program

### PM

12:00-13:00

Lunch

13:00-14:30

Building wings and measuring lift

14:30-16:00

Humanities VII: improvisational comedy

16:00-17:00

Enrichment activities

## Class Day 7

### AM

09:00-10:30

Making a kite

09:30-12:00

Flying a kite

### PM

12:00-13:00

Lunch

13:00-14:30

Humanities VIII: presidential ambitions

14:30-16:00

Humanities VIII: presidential ambitions

16:00-17:00

Enrichment activities

## Class Day 8

### AM

09:00-10:30

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## California Institute of Technology CSA International Program

Building a powered kite

09:30-12:00

Building a powered kite

### PM

12:00-13:00

Lunch

13:00-14:30

Flying a powered kite

14:30-16:00

Flying a powered kite

16:00-17:00

Personal statement workshop

## Class Day 9

### AM

09:00-10:30

Revising a powered kite with camera/GPS/steering

09:30-12:00

Revising a powered kite

### PM

12:00-13:00

Lunch

13:00-14:30

Revising a powered kite

14:30-16:00

Revising a powered kite

16:00-17:00

Personal statement workshop

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## Class Day 10

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### AM

09:00-10:30

Making kite lessons

09:30-12:00

Presenting kite lessons

### PM

12:00-13:00

Lunch

13:00-14:30

Lab tour : wind tunnel

14:30-16:00

Graduation ceremony

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