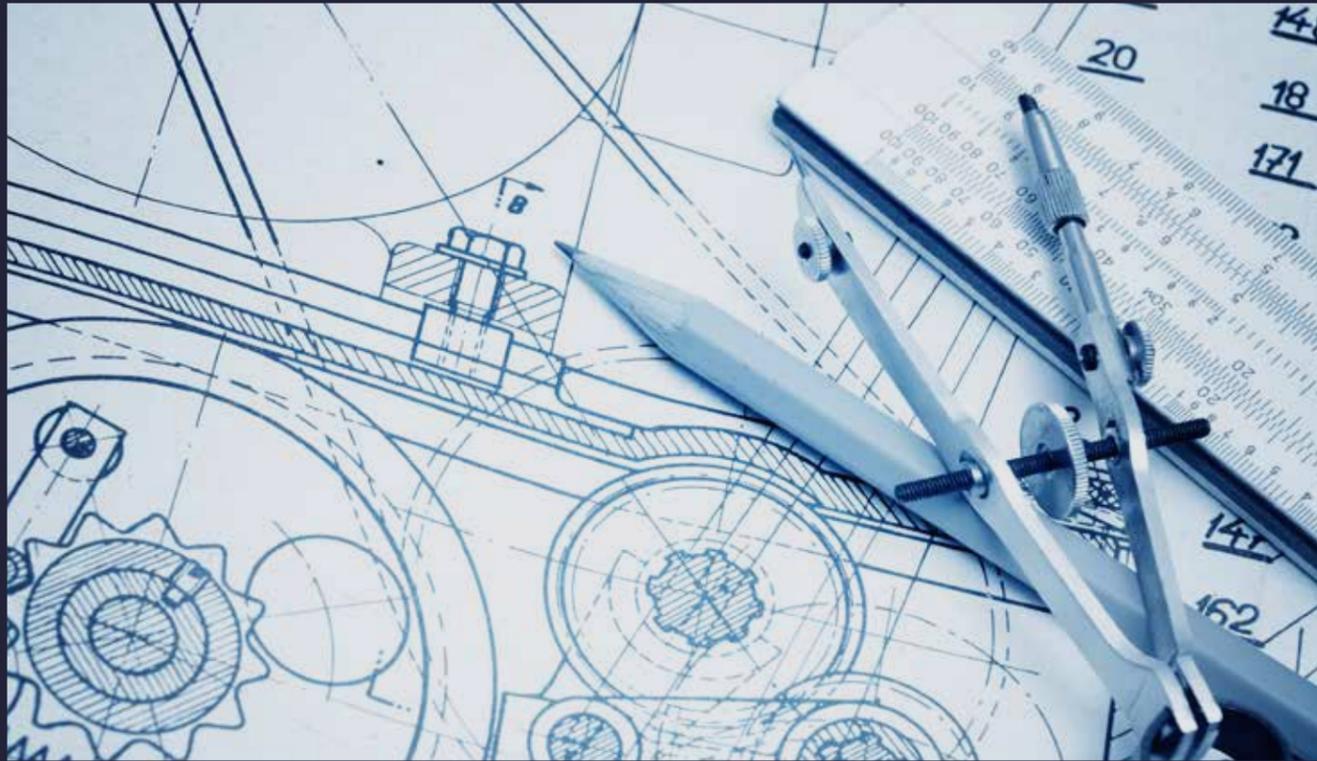




COURSE OVERVIEW

Engineering

Cambridge College



At a Glance

Cambridge College

Price: £4,500

Ages: 15-17

Duration: 2 weeks

Starting Dates:

9th July, 23rd July, 6th August 2023

Location:

Sancton Wood School, Cambridge

At Oxford and Cambridge College this summer you can gain valuable academic experience by taking the first steps in the study of Engineering.

Summer Boarding Courses' Engineering programmes are the ideal courses for students who wish to pursue an Engineering discipline as a career or at university. They provide indepth introductions to the theory of engineering which is applied in fields of innovation, design and construction.

Our Engineering students analyse technical aspects of engineering, such as in the construction of bridges, buildings, electronic circuits and mechanical design, as well as the social impact of engineering, such as in how engineering is used to tackle environmental, urban and logistical issues.

Engineering

Sample Timetable

WEEK ONE TIMETABLE

8:45-9:00	Morning Assembly				
9:00-10:30	Engineering Seminar Introduction to Engineering	Engineering Lecture Engineering and Mathematics	Keynote Lecture	Engineering Lecture Engineering for Construction	Engineering Seminar Environmental Engineering
11:00-12:30	Engineering Time to Shine: A Engineering Case Study A design and construction group project in a field of Engineering, such as Robotics, Construction and Civil Engineering.				
13:30-14:45	Engineering Practical Workshop Physics and the Science of Engineering	Engineering Seminar Engineering and Design	Industry Experience	Engineering Seminar Engineering Bridges and Towers	Keynote Lecture Leadership By Visiting Academic
15:00-16:15		University Coaching Interview Preparation		University Coaching Writing a personal statement	University Coaching Public Speaking Skills
16:15-18:15	Free Time Tutorials once per week, 16:30-17:30 Career Counselling Clinic, 16:30-17:30				

WEEK TWO TIMETABLE

8:45-9:00	Morning Assembly				
9:00-10:30	Engineering Seminar Robotics and Electronic Engineering	Engineering Lecture The Basics of Coding for Engineering	Keynote Lecture	Engineering Lecture Civil Engineering: Roads and Railroads	Engineering Seminar Aeronautic Engineering
11:00-12:30	Engineering Time to Shine: A Engineering Case Study A design and construction group project in a field of Engineering, such as Robotics, Construction and Civil Engineering.				
13:30-14:45	Engineering Practical Workshop Engineering and Nanotechnology	Engineering Seminar Engineering for Product Design	Industry Experience	Engineering Seminar City Planning	Keynote Lecture Success in Academia By Visiting Academic
15:00-16:15		University Coaching Interview Preparation		University Coaching Writing a personal statement	University Coaching Public Speaking Skills
16:15-18:15	Free Time Tutorials once per week, 16:30-17:30 Career Counselling Clinic, 16:30-17:30				

Time to Shine

The Engineering Award 2023: The Engineering Solutions of the Future

Oxford and Cambridge College's Engineering students will take part in SBC's Engineering Awards 2023 Time to Shine competition. This teambuilding competition will guide students to design engineering solutions for future challenges, such as how green technology can power cities; how digital technology can reduce carbon footprints, and how mechanical engineering can utilise space in crowded megalopolises.



What You'll Learn

- ✓ An overview of the major themes of engineering, such as robotic, mechanical, construction and aeronautic engineering.
- ✓ An insight into future trends in engineering, and the challenges future engineers will face.
- ✓ Guest speeches from leading academics in the field of Engineering.
- ✓ Take part in our exciting Engineering Awards 2023 Time to Shine project, in which you and your team will compete to solve engineering challenges of the future.
- ✓ Through fun and engaging lesson activities, develop and apply your 21st century skills, such as critical thinking, communication skills, collaborative skills, and original thinking.



Industry Experience

Visit the Engineering laboratories at Oxford University Engineering department, and learn from leading academics on what engineering projects these departments take part in on a daily basis. The tour involves a hands-on workshop in which students use leading Engineering technologies and software.

A highlight of our academic programme is our Industry Experience afternoons, where students take part in a series of workshops and lectures led by top industry professionals and academics in their respective fields. The Industrial Experience element of our courses provides a profound level of insight so that students can further make informed decisions as to whether their future career choices are right for them. Our College students will be introduced to a real-world professional environment in their chosen field of study, where they will absorb knowledge through workshops, lectures and Q&As.

Book your place

A booking can be made online on our website summerboardingcourses.com

Course places are limited so we recommend booking early. If you are booking on behalf of a family, please let us know at the time of booking.



