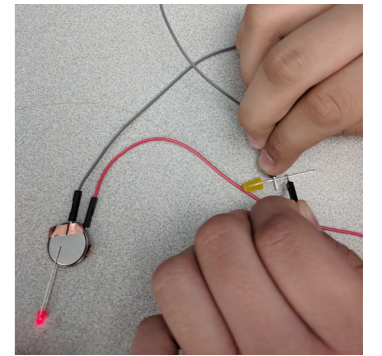


“Explore ideas, create electronic circuits and learn how to design and fabricate 2-D and 3-D laser cut objects in the CATS Innovation Lab on campus. Create 3-D artwork, light fixtures, puzzles, architectural models, 3-D sculptures and more. At CATS Academy, the city of Boston will be an extension of your classroom. You will meet local artisans, engineers, scientists and entrepreneurs to enhance your learning. This program will inspire you to apply your knowledge of Science, Technology, Engineering, Arts and Math.”



BOSTON, USA

STEAM



WHAT'S INCLUDED:



TUITION

Workshop based study will be facilitated by light, quick content tuition. The course will incorporate Science, Technology, Engineering, Arts and Maths projects as well as group work to apply theory and students will work towards a final presentation.



INNOVATION LAB

Practical workshops in our innovation lab are a key element of our STEAM course and will allow theory learnt to be put into practice



ACTIVITIES

We offer a variety of onsite activities including sports, arts and crafts and team games. Our activities provide opportunities for students to use the English they have learnt and make international friends.



EDUCATIONAL VISITS

Our educational visits provide the perfect complement to lectures and workshops and provide a real world perspective to our courses. Visits may include Harvard University, Marine Biological Laboratories and the MIT Museum.



EXCURSIONS

Excursions allow students to really get to know the USA. We use destinations such as Downtown Boston as a classroom, where students will find historic and cultural information through guided walking tours and visits to museums and other places of interest.



CERTIFICATE

Awarded for the successful completion of the course.

STEAM

DEVELOP YOUR CREATIVITY

COURSE OVERVIEW

Participants will take part in lectures, workshops and lab-based lessons as well as visits to local places of relevant interest. The course focuses on the application of Science, Technology, Engineering, Art and Maths to a series of real-world problems. The CATS Boston Innovation Lab allows our students to explore ideas, experiment with materials and build their own devices. The city of Boston and its environs will serve as an extension of the classroom through visits to Harvard, Marine Biological Laboratories and MIT Museum.

PROGRAM OUTCOMES

You will:

- Learn how science, technology, engineering and math work in the real world.
- Build teamwork and project management skills.
- Learn how to build and program electronics and apply your knowledge by completing a Wearable Technology project.
- Learn how to use open-source technology to develop and practise coding skills.
- Visit local STEM institutions.

ACTIVITIES & EXCURSIONS

One full day excursion per week is included. Destinations may include Boston, Rhode Island and Canobie Lake Park. Evening activities are varied and fun and may include discos, talent shows and international evenings.

COURSE INFORMATION

CLASS SIZE: Maximum 16 **AGE RANGE:** 14 - 18 **COURSE LENGTH:** 1 - 4 weeks

ACADEMIC REQUIREMENTS/ LANGUAGE LEVEL: Upper Intermediate B2 level recommended **START DATES:** 7th July 2024, 14th July 2024, 21st July 2024, 28th July 2024 **FEES:** \$2,662.00 (per week)

ACCOMMODATION: Single en-suite room. Meals are included (breakfast, lunch and dinner)

SAMPLE PROGRAM

WEEK 1	MORNING	AFTERNOON	EVENING
	09.00 - 12.00	13.00 - 16.30	19.30 - 22.00
SUN	Arrival at accommodation and induction from house parents		Welcome Evening & Ice Breaker Activities
MON	Lesson: Bridge Introduction	Workshop: Bridge Building Time	Team Building exercises
TUES	Lesson: Bridge Testing	Lecture: Creative problem solving: learn and plan	Students vs Staff Sports
WEDS	Lesson: Logic - Puzzles / Brain Teasers	Marine Biological Laboratory	American Culture Trivia Night
THUR	Lesson: Creative problem solving: plan, deliver and reflect	Ocean documentary - Blue Planet/coral reefs	International Night
FRI	Lesson: Logic puzzles/brain teasers/open discussion	Harvard University Tour	Disco Dance Party
SAT	Included Full Day Excursion: Canobie Lake Park		Chill Out Evening including Movies, Popcorn & Board Games
WEEK 2	MORNING	AFTERNOON	EVENING
	09.00 - 12.00	13.00 - 16.30	19.30 - 22.00
SUN	Onsite Activities e.g. Team Building Games		American Culture Evening
MON	Workshop: Projectile Motion Lab: Learn & build	Workshop: Projectile Motion Lab: FIRE!	Welcome Evening & Ice Breaker Activities
TUES	Lesson: Logic puzzles/Brain teasers	MIT tour Free Time in Cambridge	Team Building exercises
WEDS	Lesson: DIY electronics intro	Lesson: DIY electronics build	Fashion Show
THUR	Lesson: DIY electronics build	Diy electronics presentation	"Boston's Got Talent!" Talent & Karaoke Show
FRI	New England Aquarium		Disco Dance Party
SUN	Included Full Day Excursion: Newport, Rhode Island		Chill Out Evening including Films, Popcorn & Board Games
SAT	Departure		