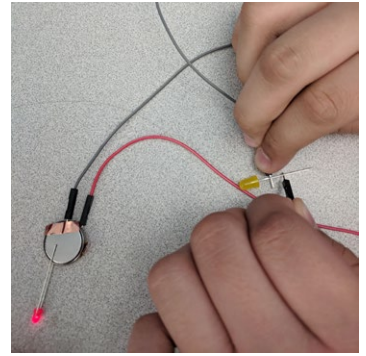




# STEAM



“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**

**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.

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## PROGRAMME 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.

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## 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

<b>CLASS SIZE:</b> Maximum 16	<b>AGE RANGE:</b> 14 - 18	<b>COURSE LENGTH:</b> 1 - 4 weeks
<b>ACADEMIC REQUIREMENTS/ LANGUAGE LEVEL:</b> Upper Intermediate B2 level recommended	<b>START DATES:</b> 9th July 2023 16th July 2023 23rd July 2023 30th July 2023	<b>FEES:</b> \$2,420.00 (per week)

## SAMPLE PROGRAMME

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	LUNCH	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	LUNCH	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					