**The Tech: Summer Middle School Programs**

**BOSCO TECH**
Science Technology Engineering + Math

**Summer School STEM**

**BOSCOTECH.EDU**

**JUNE 24 – JULY 26**
Five Weeks

**CO-ED**
6, 7, 8, & 9th GRADES

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**START-UP Your Start-Up**

**New Astronaut: Student Accelerator**

**Spy School CIA** (Children’s Intelligence Agency)

**Binge Worthy** (Mini-Media Mogul: Content Creators)

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**LEARN**
**EXPERIENCE**
**SCIENCE**
**INNOVATE**
**PLAY**

**TECH**
**KNOWLEDGE**
**ELECTRONICS**
**READ**
**ENGINEERING**
**SUCCESS**
**ROBOTICS**
**MATH**
**DESIGN**
**IMPROV**

**STUDY**
**FUN**
**HOME**

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**Don Bosco Technical Institute**
1151 San Gabriel Blvd, Rosemead, CA 91770
(626) 940-2000

BoscoTech.edu
START UP YOUR START-UP (FROM BOOTSTRAP TO ENTREPRENEUR: BE A PROBLEM SOLVER) 01

“START-UP a company you LOVE, and you will never have to work a day in your life.” - A.Z. Riel

This start-up in creative and critical thinking goes from concept to brand identity, to business plan, to prototyping, and pitch. With a cell phone, CAD, 3D printing, and/or online markets, it is entirely possible to create a company from whatever your passion, expertise, or mind can *conceive. Children can hear things adults cannot, watch things adults won’t watch, and create companies adults never created.

*For example, a kid literally plays with toys online and makes millions...I mean...seriously...you are easily more qualified than that..."

This incubator emulator will follow the official steps for starting a business in L.A., and will end with a final pitch session (building your public speaking skills) which will include business owners to provide you feedback, encouragement, and support.

NEW ASTRONAUT: STUDENT ACCELERATOR (NA:SA) CALLING CADETS. MISSION IS GO. 02

“Space is big. You just won’t believe how vastly, hugely mind-bogglingly big it is.” - Douglas Adams

Make space less mind-boggling by strengthening the engineering and science skills required for your future Mars colonization. Emulate The Design Thinking Process that has been used with rocket scientists at NASA/Jet Propulsion Laboratories/CalTech. Conceive of a mission to Mars, mission timelines, design/analysis and modeling vehicles and space suits, flight design/launch/orbit/risk assessments, recovery, manage funds, and launch your simulation.

The class will culminate in an on-site visit to the Jet Propulsion Laboratory and/or an aerospace company.

SPY SCHOOL CIA (CHILDREN’S INTELLIGENCE AGENCY) 03

Before you go to Quantico, start at QuanTECHo.

Whether you are a future CIA/FBI/Black Ops/Secret Service agent, a prodigy, gifted and talented, or a diamond in the rough, train your body and mind through espionage intelligence skills. We will build your bodily/kinesthetic skills in “laser” mazes, mathematical/logic traps, verbal/linguistic multiple language skills, intro the Constitution, team building, geographic awareness, and negotiation techniques.

Train in scientific investigation techniques, lie detection, interrogation, surveillance, undercover techniques, and rescue.

BINGE WORTHY (MINI-MEDIA MOGULS: CONTENT CREATORS, INFLUENCERS, AND YOU) 04

Future jobs may be automated, but storytelling and connecting with humans is beyond Artificial Intelligence’s cold, robot hands.

Channel your inner content creator to reach your stories and audience. With the big bang of content consumers are consuming more media than in all of human history: Netflix, YouTube, etc. need your talents. Create the future of content in one of the internet’s most in demand jobs...

Create the next viral content, channel, insta, podcast, Disneyland or Universal Studios experience. Complete with storytelling, drawing/storyboarding/principles of art and design/film/photo/acting/theme park, and media empire.
DON BOSCO TECHNICAL INSTITUTE: BOSCOTECH.EDU

The Tech: Summer Middle School Programs

THE SCIENCE OF RESTORING WHAT IS MISSING  (ALGEBRA ROCKS) 05

“‘In the battle of X versus Y, we need to UNITE.”’ - X.

Find a solid foundation for Algebra I. This includes a general review of basic mathematics, and continues with an introduction to linear equations, factoring, and other basic algebraic concepts.

DON’T FEED THE TROLLS!  (LANGUAGE ARTS & READING REVIEW) 06

“‘Did you mean?…’” - Google

If you text, post, or write in school, then this class is for you. This class is designed to help improve language arts, reading and comprehension skills through grade-appropriate reading and writing activities.

FIXING EINSTEIN’S MISTAKES  (BASIC MATHEMATICS) 07

“We call it ‘Maths’. ” - British people

A general review of basic mathematics operations with emphasis on factors, fractions, decimals, and use of formulas to solve problems. It includes an introduction to elementary algebra with simple equations, and basic operations.

GUITAR HERO  (FOR BEGINNING OR INTERMEDIATE GUITAR STUDENTS) 08

“A guitar has many, many names. An ax, a git box. Well, I guess that’s it. Anyway, we’re gonna start with the fundamentals: playing a flaming guitar with your teeth.” - Brian Setzer THE SIMPSONS “How I Spent My Strummer Vacation”

Learn to play or improve your skills on the acoustic guitar. You will learn how to tune the guitar, play notes on the fret board, and form chords and chord progressions. Bring in your favorite contemporary music and learn to play these tunes. You will also learn techniques that will help you to “play by ear.”

*Students must provide their own acoustic guitars for the class.

TRON  (ELECTRIC CITY: FUN WITH ELECTRONICS + COMPUTERS) 09

“Step inside the computer world.” - Tron

Enter the secret world of electronics and computers (and our future overlords). Learn practical electronics skills along with basic electrical theory. Take apart a computer and learn the components that make these devices tick. Students will also be exposed to soldering and computer programming. Course material is occasionally supplemented with related movies.

*No experience required; curiosity is all that is needed!
**THE THEORIES OF EVERYTHING** *(BECAUSE... SCIENCE!)* 10

9:25-10:55
11:05-12:35

“There should be no boundaries to human endeavor.” - Stephen Hawking

Learn how to use the scientific method to create new knowledge. Learn basic science techniques & procedures by doing hands-on experiments and activities using a variety of scientific equipment. Learn about light (optics) plants and animals (biology), and the periodic table and chemical reactions (chemistry).

**HOW TO GET AWAY WITH LYING** *(THEATER ARTS: IMPROV)* 11

7:45-9:15
9:25-10:55

“Yes, AND they’ll like it. Tired of being yourself, or LOVE being yourself and want everyone else to notice, then learn the art of public performance. Perform various styles of acting, moving and speaking as well as improvisation skills. Be better prepared for high school & college classes by learning skills you need for presentations, projects, public speaking, cold reading, analyzing character, understanding motivation, improvising, and using comedy as a sport.

**GET PARENTS OFF YOUR BACK** *(FORTUNE 500 & FORBES’S CORE LIFE SKILLS)* 12

11:05-12:35
1:00-2:30

“...suit the word to the action, the action to the word...” - Hamlet, or Shakespeare through Hamlet

Gain the most in demand core life skills that will help you thrive and gain autonomy. This class is designed to help students learn to be more successful in school by giving students methods and techniques to improve the way they study, do homework, and take tests. Topics covered include: goal setting, previewing a test, outlining, note taking, and listening skills.

**TECH TECH** *(TECHNIQUES OF DRAWING AND ILLUSTRATION)* 13

11:05-12:35

Tech comes from the Greek “Tekhne” meaning “ART”. - The Dictionary

Therefore, learn “Tech” at THE TECH. We’ll teach students the techniques of drawing as they are applied to cartooning and illustration. No previous drawing experience is required. Advanced students create their own comic strip or book.

**ROBOTECH (AIT)** *(ARTIFICIAL INTELLIGENCE TRAINING)* 14

1:00-2:30

“Beep beep beep beep beeeeep beep.” - R2D2

Prepare for the Robot Apocalypse with this introduction to the fascinating world of robotics and artificial intelligence (AI) using Lego Mindstorm Robots. Learn how to design, build, and program your own robot.

*$50.00 materials fee due at registration.*
BASKETBALL CAMP 17
1-3 MON.-THU.

This camp is for boys and girls, ages 9-14, who want to build or improve their basketball skills with experienced instructors. You will be taught the fundamentals of defense, shooting, rebounding, and passing through drills and games. Become a more effective basketball player and team member.

JUNIOR TIGERS CHEER CAMP 18
4:30-6:30 MON-THU.

The Bosco Tech Junior Tigers Cheer Team summer training class will consist of conditioning, dance, cheer, and stunting geared for a middle school cheer team. All participants will be invited to perform at home football games during the Bosco Tech football season.

CROSS COUNTRY 17
6-7:30 A.M. MON.-FRI.

A conditioning program that will prepare students to compete in any cross country program or help students achieve their maximum fitness potential.

MECHATRONICS 15
11:05-12:35

“MAN IS A ROBOT WITH DEFECTS.”
- EMIL CIORAN IN THE TROUBLE WITH BEING BORN

Learn to build electro-mechanical systems from raw materials like sheet metal and motors rather than from Legos. This course focuses on mechanical and electrical design for robots and other applications. Theory and application combine in a final project like a frisbee thrower.

$50 materials fee due at registration.

HACK YOUR PHONE (ANDROID APPS) 16
11:05-12:35

“Android was intended to be very customizable, and we welcome innovations” - Sundar Pichai CEO of Google

Create custom apps for your **Android-based device! Use the *App Inventor to design, program and test apps. Simple games, music players, location-aware tools and controlling other devices are some of the exciting things that can be done! It’s fun and challenging at the same time.

**No programming experience required.

**Students must have a Google account and provide their own Android device (although not required).

APP FOR SUMMER SCHOOL CLASSES

EMERGENCY MEDICAL TREATMENT AND RELEASE FORM

I, the undersigned, do hereby authorize officials of Don Bosco Technical Institute to obtain necessary medical emergency treatment for my child in the event I cannot be reached.

In the event physicians, other persons named in this form, or parents cannot be contacted, the school officials are hereby authorized to take whatever action is deemed necessary in their judgement, for the health of my child, below named.

I will not hold the school or any school employee or officer financially responsible for the emergency care and/or transportation of my child for emergency care.

Name of student: ______________________________________

Signature of Parent/Guardian: ______________________________________ Date: ______________

Parent’s/Legal Guardian’s Name: ________________________________ Telephone: __________________ cell Y/N

Parent’s/Legal Guardian’s Name: ________________________________ Telephone: __________________ cell Y/N
Student’s Name _______________________________   Grade Level as of Sept. 2019 ______   Birthdate __________

School Student Will Attend in September 2019 ________________________________________________________

Home Address __________________________________________________________________________________

Parent/Legal Guardian __________________________________  Telephone _______________________ Cell/Home

Parent’s/Legal Guardian’s Email Address ______________________________________________________________

Class Information

<table>
<thead>
<tr>
<th>Time</th>
<th>Classes</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:45 - 9:15 AM</td>
<td>1 - Bootstrap Entrepreneur 2 - Student Accelerator 3 - Spy School CIA 5 - Algebra Rocks 7 - Basic Mathematics 11 - Theater Arts</td>
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<td>11:05 - 12:35 PM</td>
<td>4 - Binge Worthy 6 - Language Arts &amp; Reading 7 - Basic Mathematics 10 - Science 12 - Core Life Skills 13 - Tech. of Drawing &amp; Illustration 15 - Mechatronics 16 - Android Apps</td>
</tr>
<tr>
<td>1:00 - 2:30 PM</td>
<td>1 - Bootstrap Entrepreneur 14 - Robotech</td>
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SPORTS:

<table>
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<th>Time</th>
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<tbody>
<tr>
<td>1:00 - 3:00 PM</td>
<td>15 - Basketball Camp (Monday—Thursday Only)</td>
</tr>
<tr>
<td>4:30 - 6:30 PM</td>
<td>16 - Junior Tigers Cheer Camp (Monday—Thursday Only)</td>
</tr>
<tr>
<td>6:00 - 7:30 AM</td>
<td>17 - Cross Country (Monday—Friday)</td>
</tr>
</tbody>
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COSTS:

- $275 for 1 Enrichment Class
- $550 for 2 Enrichment Classes
- $825 for 3 Enrichment Classes
- $1,100 for 4 Enrichment Classes
- $225 for 4 & 5 Week Sports Camps
- $825 for 3 Enrichment Classes
- $1,100 for 4 Enrichment Classes
- $50 Robotics Class Material Fee

Total Fees Submitted: $____________________