



# ENJOY SUMMER AS A CUB

**REGISTER TODAY ONLINE**

## Science Enrichment Camps

This summer, the U of D Jesuit science department is offering four courses to introduce young minds to problem solving skills used to address issues that affect the world in which we live. These courses will set up and foster the foundational skills such as study skills, data analysis, critical thinking, laboratory technique and collaboration; all of which are crucial for success in today's technology driven world. Camp participants will be challenged to work as a team to solve a real world problem using the skills they have built throughout the week.

To register, visit the school's website at <http://www.uofdjесuit.org/summerschool/>.



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# UNIVERSITY OF DETROIT JESUIT HIGH SCHOOL AND ACADEMY

## SUMMER SCHOOL EXPERIENCES

### Science Enrichment Camps

*Goal:* To introduce young minds to problem solving skills used to address issues that affect the world in which we live. To set up and foster the foundational skills such as study skills, data analysis, critical thinking, laboratory technique and collaboration; all which are crucial for success in today's technology driven world. Camp participants will be challenged to work as a team to solve a real world problem using the skills they have built throughout the week.

*Grades:* Incoming 7th and 8th graders (All male and female students in this age range are welcome to participate. All students must be residents of the city of Detroit.)

Camp Sessions are 3 hours per day for 1 week. Maximum 20 students per session.

July 16 – 20, 2018				
AM Session 8:30 – 11:30 AM	Forensics	Maker Space	Material Science	Robotics
PM Session 12:30 – 3:30 PM	Forensics	Maker Space	Material Science	Robotics

### Materials Science

In the laboratory sessions, camp participants learn about metals, polymers, ceramics, composites, and nanomaterials, how these materials are processed, how their structure determines their properties, and how and where they are used. Student teams will also carry out an engineering design project which runs throughout the week with awards for the top teams.

### Forensics

By conducting hands-on science experiments within the ever-increasingly popular field of forensic science, classmate groupings are motivated to gather intelligence by applying their investigative and problem-solving skills to solve various mock crimes. Learn about means, motive and opportunity while exploring the fundamentals of fingerprinting, blood spatter analysis, and forensic document examination. Using paper chromatography, reveal the underlying composition of four suspects' pens and apply the same scientific process on a ransom note to identify the perpetrators! Will you close your cases? Or will you need to gather more evidence?

### Robotics (EV3 based)

Students form teams to apply mathematical and scientific learning to solve various hardware and software robotic challenges; transcend a maze; move cargo. Gear-up for building the speediest robotic dragster. Follow a set of plans or engineer your own design. Integrate touch, light, sound and ultrasonic sensors to allow your robot to perceive and interact with its surroundings. Showcase your problem-solving skills in designing, building and programming as you strive to take the lead in robotic team challenges!

### Maker Space

Join the Maker Revolution and start designing and drafting in three dimensions! Using Google SketchUp, students learn common CAD (Computer Aided Design) tools and techniques. Start with simple boxes, spheres, and pipes and learn to rotate, stretch, and scale these shapes in a 3D environment. Then, learn to combine, print and construct these designs to solve real problems and create anything you can imagine. Our *Maker Space* course is a perfect beginner class for students interested in 21st Century careers in game design, prototype engineering, medical implant modeling, computer innovation and more.

*Cost:* \$20 per course

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