# THE STEAM PROGRAM AT LORETTO COLLEGE SCHOOL

## 01. STEAM at LCS

The Loretto College School STEAM Program is a dynamic, innovative, interdisciplinary initiative designed for students who are passionate about Science, Technology, English, Arts, and Mathematics.

This program (which runs from Grade 9 to Grade 12) combines hands-on projects, real-world problem-solving, experiential learning opportunities, and creative exploration to develop critical thinking and technical skills.

Students engage in collaborative learning experiences in cohorted classes that integrate technology with artistic expression to tackle real-world STEAM challenges.




## 02. The Benefits of STEAM

By applying in Grade 8, students will become part of a collaborative cohort of motivated peers, working together to share ideas, solve problems, and develop – both academically and personally – throughout their high school experience.

*"As students engage in STEAM education, they develop the transferable skills that they need to meet the demands of today's global economy and society."*

The Ontario Ministry of Education

## 03. Completion of the Program

Upon successful completion of all courses in the program, from Grade 9 to Grade 12, students receive an LCS STEAM Certificate, recognizing their academic achievements and the specialized skills they have developed while part of this unique program. This certificate not only enhances their academic portfolio, but also prepares them for future studies and careers in STEAM-related fields.



# THE LCS STEAM PROGRAM: YOUR SPECIALIZED EXPERIENCE

## 04. The Grade 9 Experience

Grade 9 students who are enrolled in the LCS STEAM Program will be **cohorted** in the following courses: **Science**, **English**, **Integrated Arts**, and **Math**. Being with fellow students who share a keen interest in STEAM studies, students will grow into collaborative and curious learners who value the challenges that come along with problem-solving.

Grade 9 students will see interdisciplinary connections between their cohorted STEAM courses. They will participate in STEAM experiences with local organizations that will help them expand their understanding of STEAM and its importance in real-world applications.

## 05. The Grade 10 Experience

Students continue their STEAM experience in grade 10 and are cohorted in the following courses: **Academic Science**, **Academic English**, **Technology** (***Healthcare or Communications***), and **Academic Math**.

The academic program is enriched, as students dig more deeply into course curricula. Additionally, via a project that tackles a real-world issue connected to an annual theme, students study, collaborate, and engage in problem-solving with keen peers in this specialized experience.

Students will participate in exclusive STEAM activities, and/or excursions, and/or workshops, both at LCS and off-site. These experiences help them to make greater connections between STEAM disciplines and the STEAM-connected jobs available to them in the future.

## 06. The Senior Experience

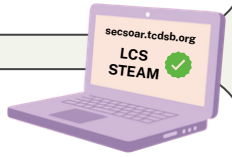
The LCS STEAM experience continues onwards in grades 11 and 12, as students must take three courses, as follows:

**COMPULSORY** TWO CREDITS:
one senior arts **and** one senior tech.

**ELECTIVE** ONE CREDIT:
one senior social science, **or**
one grade 11 science, **or**
one grade 12 math.

## 07. The Application Process: Sept./Oct. of Grade 8

Students are asked to indicate their interest in the LCS STEAM Program on the *Secondary School Online Application for Registration* (SSOAR) platform: https://secsoar.tcdsb.org.




## Learn, Collaborate, and Innovate in the LCS STEAM Program!

Throughout their studies in this enriched and dynamic program, students develop a ***Portfolio of Learning*** that reflects their experiences, growth, accomplishments, and evolving skills. With meaningful learning, enhanced by creative spaces like our ***Design and Innovation Studio***, students will explore, design, build, and bring their ideas to life. Students will grow their confidence and independence to become the intelligent and thoughtful leaders of tomorrow!