



PROVIDENCE CATHOLIC HIGH SCHOOL

1800 W. Lincoln Highway • New Lenox, Illinois 60451 • (815) 485-2136 • www.providencecatholic.org

October 23, 2018

Dear Class of 2022 Families,

I am excited to tell you that faculty members from our Math, Science and Computer Science & Applications departments have developed a STEM Program at Providence Catholic! STEM is an academic program for inquisitive students who are active learners wishing to identify and solve authentic problems. STEM students utilize self-directed and collaborative learning in the integrated fields of Science, Technology, Engineering and Mathematics.

The content of all four disciplines will be interwoven. Students will be active and engaged as they work collaboratively and independently to explore various STEM topics and real-life scenarios.

STEM is designed for students to begin in their Sophomore year and continue through their senior year. Over the course of these three years, STEM classes will replace students' science, math and technology classes on their course schedule. STEM students will be able to meet all PCHS graduation requirements. The program includes the following courses: Biology, Chemistry, Physics, Algebra 2, Geometry, Pre-calculus, Engineering & Design, Computer Science and Computer Programming. Some of the additional topics will include Robotics, Java script, Python and other programming languages, Web Design, Statistics, Trigonometry, Environmental Science, Ecology and more.

To select students for the STEM Academy, we have developed a course of action to identify those who will be most successful in the program:

Phase 1

- | | |
|----------|--|
| 10/23/18 | Invitation sent to all Class of 2022 families
Mrs. Rosanne Grigoletti available to answer questions during Parent-Teacher Conferences (Student Commons) |
| 11/1/18 | Q & A session following Counseling Department's Frosh/Soph Parent Night (7:00 PM in the Student Commons) |
| 11/7/18 | Application deadline |

Phase 2

- | | |
|----------------------------|--|
| 11/29/18
7:45 – 9:15 AM | Session #1: Applicants participate in individual and group activities
(Applicants need to attend both sessions) |
| 12/6/18
7:45 – 9:15 AM | Session #2: Applicants participate in individual and group activities
(Applicants need to attend both sessions) |



PROVIDENCE CATHOLIC HIGH SCHOOL

1800 W. Lincoln Highway • New Lenox, Illinois 60451 • (815) 485-2136 • www.providencecatholic.org

Phase 3

- Week of 1/7/19 Acceptance letters sent
Week of 1/21/19 Accepted students select STEM program during course selection process

Please discuss the STEM program with your student. If he/she would like to apply for the STEM Program, he/she should complete a short application which is posted on the [STEM page of the PCHS website](#). Student applications are due by Wednesday, November 7, 2018.

Completing an application does not guarantee your student a place in the STEM academy. Likewise, it does not obligate your student to enroll. The application is the first of many steps for you (and us) to determine if this program is appropriate for your student.

The STEM faculty are looking forward to meeting and learning more about your student. If you have any questions, please contact Mr. Mike Stenoish, Science Chairperson (mstenoish@providencecatholic.org; 815.717.3341) or Mrs. Rosanne Grigoletti, Technology Director (rgrigoletti@providencecahtolic.org; 815.717.3137).

Sincerely,

Dr. John Harper, Principal
Providence Catholic High School

PROVIDENCE CATHOLIC HIGH SCHOOL STEM ACADEMY

Our STEM Academy is an academic program for inquisitive students who are active learners wishing to identify & solve authentic problems. STEM students utilize self-directed and collaborative learning in the integrated fields of Science, Technology, Engineering and Mathematics.

Qualities of a STEM Student



WHY STEM?

Challenging curriculum in core science and math classes, interwoven with computer science and applications

Project Based Learning engages students in solving problems through design & innovation

Effectively collaborate in teams to apply learning to real life scenarios

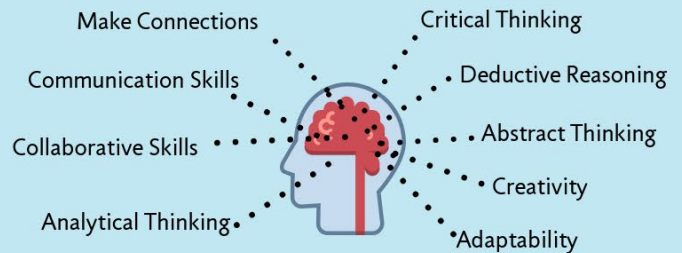
Focus on communication and presentation skills necessary for both college and career



More than Engineering

1. Medical Professionals
2. Network Systems Admin
3. Ecologist
4. Big Data Architect
5. Actuarial Science
6. Architect
7. Quality Control Analyst
8. Chemist & Physicist
9. Dietician & Nutritionist
10. And MORE!

Brain Power



Learn more @ www.providencecatholic.org/academics/stem



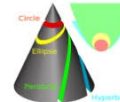
SCIENCE



TECHNOLOGY



ENGINEERING



MATHEMATICS