



ST. TERESA'S ACADEMY STEM/STEAM CERTIFICATE

The St. Teresa's Academy Science, Technology, Engineering, Arts and Mathematics (STEM/STEAM) certificate program acknowledges students for their achievements and involvement in STEM/STEAM related activities. This is a multi-year effort that focuses on several academic subject areas and community learning. The program is designed to provide preparation and opportunities related to STEM/STEAM fields in and beyond the typical classroom day.

Students completing the requirements to earn a STEM or STEAM Certificate will receive a special designation on their commencement program and a silver honor cord. In addition, documentation of STEM/STEAM Certificate completion will be noted on the transcript.

The online application can be found at <http://goo.gl/forms/4yc5jKdH9aRdCnzE2>.

Application Period: spring semester of sophomore year through March of junior year.

STEM/STEAM CERTIFICATE REQUIREMENTS

Maintain 93. cumulative weighted GPA percent.

Complete the minimum credits in each category:

Math – 4 credits

Science – 4 credits

(biology, chemistry + physics or an AP level science course required for STEAM)

(biology, chemistry & physics required for STEM)

STEM/STEAM Electives – 2 credits

(math, computer science, science, &/or digital medium courses). Courses will determine STEM Certificate or STEAM Certificate designation.

STEM/STEAM Online Portfolio

Create a digital portfolio that showcases your work and demonstrates your efforts and goals through various media.

Suggestions of online portfolio systems to use:

Google folder, wordpress.com or wix.com.

Clubs & Extra-Curricular

Membership and full participation in at least one STA STEM/STEAM club or extra-curricular activity for a minimum of two years. This includes but is not limited to: STEM Club, Math Team, Robotics Team, Girls Who Code, Windmoor Literary Magazine, sound/light coordinator for STA theater productions.

E-Mentor & Faculty Mentor

An STA approved e-mentor in a STEM/STEAM related field (assigned in the junior year). A faculty mentor will also be assigned and Certificate students will meet periodically as a cohort with the faculty.

Job Shadow Experience /Professional Events

A minimum of 3 job shadow experiences with a combined minimum of 9 hours in STEM/STEAM related field. Shadow hours should be conducted when school is not in session.



STEM/STEAM CERTIFICATE REQUIREMENTS (CONT.)

Community Volunteer – serve as a student volunteer in the STA Math Hub, approved peer tutor in a STEM course (STA), assist with STEAM summer camps for grade school girls, assist with KC STEM Alliance Lego Competition, KC Engineering Zone, STEAM Studio, etc.
Minimum of 10 hours total.

Students are encouraged to pursue STEM/STEAM community learning opportunities of interest. The above list includes examples.

All items must be completed and recorded on STEM/STEAM log NO later than March 1 of the senior year.



OPTIONAL ITEMS (NOT REQUIRED)

Participate in area STEM/STEAM related competitions such as Battle of the Brains, Scholastic Art Awards Competition, National Scholastic Press Association Competitions, First Robotics, MECA Challenge, etc.

Complete an approved nationally recognized certification program (i.e. Adobe, Windows, Google, Apple, etc.) **or course.** (edX offers free online science/art/technology courses with a certificate from a university) Cost & scheduling is the responsibility of the student.

Attend STEM/STEAM information programs on college campuses or open houses at STEM/STEAM related businesses.



FAQS

When do students apply for the certificate?

It is recommended that students apply in the spring sophomore year or early in the junior year.

What if a student does not complete the requirements? Designation on the transcript and commencement program will only be noted if a student completes all requirements. A student may withdraw from the program at any time if they choose.

Questions?

Contact Debi Hudson at dhudson@stteresacademy.org

COURSE INFORMATION:

STEM Certificate

Additional 2 credits in math, computer science and/or science. Community learning requirements must be targeted in STEM areas.

STEAM Certificate

Additional 2 credits in math, computer science, science and/or digital medium. Community learning requirements must be targeted in STEAM areas.

**Courses subject to change. Related online courses through Online School for Girls may apply.*

**Online Personal Finance may not be used as a STEM/STEAM elective requirement after the Class of 2019.*