



STEM CERTIFICATE

In 2015 the Academy of Our Lady of Peace created the Science, Technology, Engineering, and Mathematics (STEM) certification to acknowledge students for their achievements and involvement in STEM related activities. Students completing the requirements to earn a STEM certificate will receive special recognition at their commencement ceremony, as well as a seal of completion on their graduation diploma. In addition, documentation of STEM completion will be noted on their transcript.

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GRADUATION REQUIREMENTS

I. Maintain 3.0 overall GPA each semester (weighted cumulative)

II. Adherence to all policies outlined in the Student/Parent Handbook

III. Complete the minimum units in each of the following categories:

- Math 40 units*
- Science/STEM 40 units
 - (at least 5 of these units have to come from a STEM course)

* Students may also meet the 40 unit requirement by passing OLP's Calculus B/C course or an equivalent college-level course or by earning a 3 or higher on the AP Calculus B/C examination.

IV. Extracurriculars:

Students must earn a minimum of 125 points to meet the extracurricular requirement by participating in any combination of the following:

- Internship = 30 points per internship
- OLP STEM Certificate Event (on-campus)= 15 points per attendance
- STEM Online Certificate= 20 points
- STEM Event (off-campus)=10 points
- STEM Club = 15 points per year of participation

Students must provide proof of attendance in the form of a ticket stub/receipt. In addition to a short summary of the event attended and what was learned.

V. Advisory Panel

Present their portfolio to a STEM Advisory Panel at the completion of their senior year.



MATH COURSES

COURSE ID	COURSE TITLE
302/303	ALGEBRA 1
310/311	GEOMETRY
320/321	PRECALCULUS (H)
328/329	AP CALCULUS AB
330/331	AP CALCULUS BC
336/337	GEOMETRY HONORS
338/339	BEGINNING ALGEBRA
342/343	PRE-CALCULUS
344/345	ALGEBRA II
346/347	ALGEBRA II HONORS
350/351	AP STATISTICS
352/353	ADVANCED MATH TOPICS HONORS
352G/353G	ADVANCED MATH TOPICS HONORS

* Students may also meet the 40 unit requirement by passing OLP's Calculus B/C course or an equivalent college-level course or by earning a 3 or higher on the AP Calculus B/C examination.



SCIENCE COURSES

COURSE ID	COURSE TITLE
402/403	BIOLOGY
404/405	BIOLOGY HONORS
406/407	AP BIOLOGY
408/409	ANATOMY & PHYSIOLOGY
410/411	CHEMISTRY
412/413	CHEMISTRY HONORS
414/415	AP CHEMISTRY
416/417	PHYSICS
420/421	GENETICS HONORS
430/431	MARINE SCIENCE
432/433	ENVIRONMENTAL SCIENCE
434/435	AP ENVIRONMENTAL SCIENCE
436/437	AP PHYSICS I



STEM COURSES

COURSE ID	COURSE TITLE
440/441	INTRO BIOTECHNOLOGY
906	PRINCIPLES OF ENGINEERING
907/908	AP COMPUTER SCIENCE PRINCIPLES
907G/908G	AP COMPUTER SCIENCE PRINCIPLES (G-BLOCK)
907Z/908Z	AP COMPUTER SCIENCE PRINCIPLES (Z-BLOCK)
909	ADVANCED ENGINEERING
911/912	AP COMPUTER SCIENCE A
915G/916G	ROBOTICS (G-BLOCK)



CLUBS

ACCEPTABLE STEM CLUBS
GREEN TEAM
MATHLETES
ROBOTICS TEAM
ROCKET CLUB
SCIENCE OLYMPIAD
SOCIETY OF HISPANIC PROFESSIONAL ENGINEERS
SOCIETY OF WOMEN ENGINEERS
STEAM CLUB
WOMEN'S HEALTH INITIATIVE



EXTRACURRICULARS

Students must earn a minimum of 125 points to meet the extracurricular requirement by participating in any combination of the following:

- Internship = 30 points per internship (based upon a school semester)
- OLP STEM Certificate Event (on-campus)= 15 points per attendance
- STEM Online Certificate= 20 points
- STEM Event (off-campus)=10 points
- STEM Club = 15 points per year of participation

Internship

- Students must get their internship approved by STEM Coordinator. Internship credit will be dependent on the length of the internship. The STEM coordinator will determine the appropriate amount of points if the internship is shorter / longer than a school semester.

OLP STEM Certificate Events

- Students can receive 15 points for attending an OLP STEM Events. These events are hosted by the STEM Certificate Moderators and can include events such as the STEM Speaker Series and Field Trips.

STEM Online Certificate

- Students can complete a STEM-related Certificate for up to 20 points per certificate completed.
- Examples include GALE online courses which are available for free through the San Diego Public Library.

The screenshot shows the San Diego Public Library website interface. At the top, there is a navigation bar with links for 'My Classroom', 'About Us', and 'Help', along with a 'Sign In' option. Below this is the library's logo and a search bar with the placeholder text 'Enter Search Here'. A 'Browse Catalog' dropdown menu is open, listing various subject areas such as Accounting and Finance, Business, Computer Applications, Design and Composition, Healthcare and Medical, Language and Arts, Law and Legal, Personal Development, and Teaching and Education. The main content area features a 'Welcome to Gale Courses!' section, which includes a promotional image of a woman at a laptop and text describing the availability of online courses for library card holders. A 'View More Courses' button is visible below the image.



EXTRACURRICULARS CONTINUED

STEM Event (off-campus)

- Students can receive 10 points for attending public STEM Events in the community. Examples include visits to the [Fleet Science Center](#), [SD Makerfaire](#), and more.
- Students must confirm with the STEM Moderator that the event is appropriate.
- Proof of attendance is required

STEM Club

- Take part in a STEM approved club listed above
- Must be a regular attendee of meetings and club events (credit will be given at the discretion of the club moderator)



STEM CERTIFICATE PERKS

- Monthly STEM Newsletters
 - Exclusive information about STEM related opportunities in San Diego
 - Latest information about STEM events on campus
- Females in STEM Video Chat Sessions
 - Quarterly Video Chat sessions with females in STEM.
 - Previous guests include females working at:
 - CalTech
 - Adobe
 - I Love a Clean San Diego
- STEM Social
 - Get to know your fellow STEM Certificate Students during our annual STEM Social.
- STEM Advisory Panel
 - Gain valuable research experience
 - Explore different career options
 - Will look great on college apps!