PHS STEM Certificate

STEM Core Curriculum Classes

6 Total Year Long Classes are Required

Career Technical Education Classes: Make I, Make II; Health Science & Biotechnology I, II, III; Geospatial Technology I, II, III

Advanced Placement: Biology, Physics, Calculus, Statistics, Art

Academic : Chemistry, Physics, Trigonometry,

Business Technology: Web Design

Electives: Space Science, MESA

Level 1

Ongoing Personal Involvement

Select 2 Items **Per** Year

Grades 9-12

Acceptable Items May Include:

- STEM Cafe' (1/2 Share)
- SSU/SRJC Colloquium (1/2 Share)
- Exploratorium
- Leapfrog
- TrigStar
- Math Steeplechase
- Math Club
- PHAST Club
- HOSA Chapter
- Robotics Club
- ChemClub
- Athletic Training Club
- Make Club
- SRJC Calculus Camp
- Approved Alternative

Level 2

Community Involvement

Select 2 Items Total

Grades 9-12

Acceptable Items May Include:

- First Light
- Internships
- SSU Summer Genetics Lab Workshop
- Science Olympiad
- StarLab Outreach
- Specialized Lab/Aid Tutor
- Peterson Creek Stewardship Project
- Athletic Training Club Field Experience
- Bay Area Science Festival
- Approved Alternative

Level 3

Original Science or Engineering Inquiry Project

Complete 1 Item Total

Grade 11/12

Acceptable Items May Include :

- Make Fair
- CAMEOS
- S4
- SSU Symposium
- Synopsys County Science Fair
- Approved Alternative

Certificate Advantages

- Students will work with a faculty advisor to create a personalized learning plan to meet the STEM Certificate criteria. Upon completion of requirements, a compulsory presentation to the STEM Advisory Panel will be made that includes a synopsis of the STEM experience
- STEM Certificate graduates will be recognized individually at school commencement and presented with their certificate. Certificate holders will be provided with official documentation on his or her transcript and will also receive a letter of recommendation from the STEM Advisory Panel. Certificates will garner the recipient early admission review for non-impacted STEM majors at Sonoma State University.

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