



# Mountain Vista STEM Program

Our goal is to create as many STEM opportunities for students to take as they desire. The foundation of the program is a solid and rigorous Math and Science background. As you can see in the sample certificate program and course flow chart, there are many potential pathways depending on what a student wants to focus on for their electives.

## Requirements: STEM Graduation Certificate

	<b>S</b>	<b>T</b>	<b>E</b>	<b>M</b>
<b><u>STEM Certificate</u></b>	<b>4 credits of science</b>  -Must include Physics or AP Physics 1, 2 or C	<b>Complete 2 or more Sem. courses</b> Tech. Ed. Multimedia/Tech. Computer Prog/Sci. Graph. Design/Photo Agriculture English-Tech. Writing /Innov&Collab./MV Media Internship	<b>Complete two or more Sem. courses</b> Engineering Business Computer Prog/Sci/CAD. Multimedia/Tech. English MV Media Interior Design Theater Tech Graphic Design	ACC College Algebra, AP Stat or Calc AB
<b><u>Honors STEM Certificate</u></b>  <b>(At least four credits of math and science, and a 5<sup>th</sup> credit in one or the other)</b>	-In addition to requirements above: <b>Required:</b> 1 AP course and 1 Honors or 2 AP courses Honors Courses: --H Bio --H Chem	<b>Complete 2 or more Sem. courses</b> Tech. Ed. Multimedia/Tech. Computer Prog/Sci. Graph. Design/Photo Agriculture English-Tech. Writing /Innov&Collab./MV Media Internship	<b>Complete 2 or more Sem. courses</b> Engineering Business Computer Prog/Sci/CAD. Multimedia/Tech. English MV Media Interior Design Theater Tech Graphic Design	-In addition to requirements above: 1 or more of the following: Calc AB, BC or Calc III

### Additional Expectations and Opportunities:

- Demonstrated involvement in a club or extracurricular activity that enhances communication, leadership, critical thinking, and problem solving. Ex. TSA, DECA, Speech and Debate, Key Club, Mock Trial, or other MVHS opportunity.
- Completion of a Senior Capstone (Legacy) Project that brings together your English class project requirements with an area of interest that you possess. We are encouraging a faculty sponsor and/or a mentor/advisor that is not on the MVHS staff. It should include a connection with a post secondary concept, discipline, or goal that you have an interest. This may include, but not be limited to, an internship with a STEM company, collaboration with a mentor in the chosen field, “shadowing” of a professional, inventing/reinventing a product or process, marketing, or other opportunity. Your assigned project in English, ACC English, or AP Literature are acceptable. A STEM Review team will review the completion of the project.
- For a complete list of eligible classes, please refer to the appropriate content area in the catalog and look for the **STEM** logo. In the course catalog you will also find the **STEM** logo and T, E, or TE next to it. These letters are an indication of whether the course counts toward the Technology, Engineering, (or both) component(s) of the STEM Certificate.
- For additional information or for questions, please contact David Larsen, STEM Facilitator, at [david.larsen@dcsdk12.org](mailto:david.larsen@dcsdk12.org), or Rob Ceglie, AP/STEM Coordinator, at [rob.ceglie@dcsdk12.org](mailto:rob.ceglie@dcsdk12.org).