



The STEAM Program at Anoka High School is designed for students who want an integrated focus of Science, Technology, Engineering, Arts and Math. Students will incorporate problem solving, collaboration, innovation and creativity as they prepare for careers in computer science, the arts, math, science and engineering.

Students will need to meet all graduation requirements as outlined in the registration handbook, however, students in the STEAM program have the following course requirements. A 4-year plan is outlined at [ahschools.us/ahsteam](http://ahschools.us/ahsteam) for students in a variety of programs including music, special education and ELL.

<b>REQUIRED STEAM COURSES</b>		
COURSE TITLE	GRADES	PREREQUISITES
STEAM Foundations	<b>9, 10</b>	
STEAM Computer Skills	<b>9, 10</b>	
Design and Fabrication I	<b>9, 10</b>	
STEAM Integrated Engineering	<b>10</b>	
Technology/Computer Science—see elective list below	<b>10, 11, 12</b>	STEAM Computer Skills
STEAM Senior Experience— <b>will begin 2019-2020 for Class of 2020</b>	<b>12</b>	
<b>TECHNOLOGY/COMPUTER SCIENCE ELECTIVES</b>		
<b>Students must select one of these courses in their 2<sup>nd</sup> year of STEAM</b>		
<b>Technology/Computer Science</b> <ul style="list-style-type: none"> <li>• AC Computer Programming</li> <li>• AP Computer Science</li> <li>• Video Game Design and Marketing</li> <li>• AC Social Media Marketing and Web Design</li> <li>• AC Web Page Coding for Business</li> <li>• PLTW AC Honors Computer Science Principles</li> </ul>	<b>9, 10, 11, 12</b> <b>9, 10, 11, 12</b> <b>9, 10, 11, 12</b> <b>9, 10, 11, 12</b> <b>9, 10, 11, 12</b> <b>10, 11, 12</b>	AC Computer Programming

**STUDENTS NEED TO EARN 1.5 CREDITS DURING GRADE 11 AND 12 FROM THE STEAM ELECTIVES LISTED BELOW. If students focus those credits in a specific career pathway, they will receive a certificate with Career Focus Distinction when they complete the STEAM program. All other STEAM participants will receive a general STEAM certificate of completion.**

<b>ELECTIVE COURSES FOR STEAM BY PATHWAY</b>	<b>GRADES</b>	<b>PREREQUISITES</b>
<b>Technology/Computer Science</b> <ul style="list-style-type: none"> <li>• AC Computer Programming</li> <li>• AP Computer Science</li> <li>• Video Game Design and Marketing</li> <li>• AC Social Media Marketing and Web Design</li> <li>• AC Web Page Coding for Business</li> <li>• PLTW Computer Science Principles</li> </ul>	<b>9, 10, 11, 12</b> <b>9, 10, 11, 12</b> <b>9, 10, 11, 12</b> <b>9, 10, 11, 12</b> <b>9, 10, 11, 12</b> <b>10, 11, 12</b>	Computer Programming  STEAM Computer Skills
<b>Visual Arts</b> <ul style="list-style-type: none"> <li>• Drawing I, II, III</li> <li>• Painting I, II, III</li> <li>• Ceramics I, II, III</li> <li>• Computer Art I, II</li> <li>• Jewelry and Craft Design I, II</li> <li>• Sculpture I, II, III</li> <li>• Video Art I, II</li> <li>• AP Studio Art: Drawing/Painting</li> <li>• AP Studio Art: Ceramics/Sculpture</li> </ul>	<b>9, 10, 11, 12</b> <b>9, 10, 11, 12</b> <b>9, 10, 11, 12</b> <b>9, 10, 11, 12</b> <b>9, 10, 11, 12</b> <b>9, 10, 11, 12</b> <b>9, 10, 11, 12</b> <b>10, 11, 12</b> <b>10, 11, 12</b>	Must take level I prior to level II, prior to level III
<b>Performing Arts</b> <ul style="list-style-type: none"> <li>• Choir I, II, Honors Choir III</li> <li>• Band I, II, Honors Band III</li> <li>• Orchestra I, II, Honors Orchestra III</li> <li>• Music Exploration</li> <li>• Theater I, II, III</li> <li>• STEAM Dance Ensemble I</li> </ul>	<b>9, 10, 11, 12</b> <b>9, 10, 11, 12</b> <b>9, 10, 11, 12</b> <b>9, 10, 11, 12</b> <b>9, 10, 11, 12</b> <b>9, 10</b>	Levels determined by instructor
<b>Technology Education Arts</b> <ul style="list-style-type: none"> <li>• Graphics I, II, III</li> <li>• Digital Photography I, II</li> <li>• Digital Videography</li> <li>• Design and Fabrication I</li> <li>• Design and Fabrication II</li> <li>• CAD III Engineering &amp; Architecture</li> <li>• CAD/Technical Illustrations</li> </ul>	<b>9, 10, 11, 12</b> <b>9, 10, 11, 12</b> <b>9, 10, 11, 12</b> <b>9, 10, 11, 12</b> <b>9, 10, 11, 12</b> <b>9, 10, 11, 12</b> <b>10, 11, 12</b>	Must take level I prior to level II, prior to level III  Design and Fabrication I CAD II Engineering & Architecture or Design and Fabrication II Design & Fabrication I or CAD I

<b>Family and Consumer Arts</b> <ul style="list-style-type: none"> <li>• Fabric, Apparel and Design</li> <li>• AC Fashion Merchandising</li> <li>• Interior Design and Housing</li> <li>• Culinary Arts I and II</li> </ul>	<b>9, 10, 11, 12</b> <b>9, 10, 11, 12</b> <b>9, 10, 11, 12</b> <b>10, 11, 12</b>	Food Preparation Fundamentals, Nutrition or Intro to Culinary Arts
<b>Language Arts and Culture</b> <ul style="list-style-type: none"> <li>• Creative Writing I, II</li> <li>• Honors Humanities</li> <li>• Yearbook I, II, III</li> <li>• Television Journalism</li> <li>• Honors Hispanic Studies</li> </ul>	<b>10, 11, 12</b> <b>11, 12</b> <b>9, 10, 11, 12</b> <b>10, 11, 12</b> <b>11, 12</b>	Must take level I prior to level II, prior to level III  Spanish 3A and 3B
<b>Agricultural Arts</b> <ul style="list-style-type: none"> <li>• Animal Management</li> <li>• Fish and Wildlife Ecology</li> <li>• Fish and Wildlife Zoology</li> <li>• Seasonal Horticulture</li> <li>• Floriculture</li> </ul>	<b>9, 10, 11, 12</b> <b>10, 11, 12</b>  <b>10, 11, 12</b> <b>9, 10, 11, 12</b>	
<b>Health/Science</b> <ul style="list-style-type: none"> <li>• AC Medical Terminology &amp; Careers</li> <li>• AC Medical Anatomy I</li> <li>• AC Medical Anatomy II</li> <li>• Pre-Vet Animal Science</li> <li>• College Honors Animal Science</li> <li>• Food Science</li> </ul>	<b>10, 11, 12</b>  <b>10, 11, 12</b> <b>10, 11, 12</b> <b>10, 11, 12</b> <b>11, 12</b> <b>9, 10, 11, 12</b>	AC Medical Anatomy I  Pre-Vet Animal Science

*Acceptance into STEAM at AHS is a required prerequisite for all STEAM only courses.*