



## Science Department Course Prerequisites Quick Reference Sheet SY 2018-2019

**\*\*Students must take *Biology, Chemistry, and Physics or Environmental science***

**\*\*\*Students must complete *Biology, Chemistry, and Physics or Environmental Science***

<b>CP- College Prep</b> <b>CPE- College Prep Enriched</b>	<b>Required Core Courses Include 1 year of Biology, 1 year of Chemistry, and 1 year of Environmental Science, or Physics</b>
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Course Recommended To	Science Requirement (minimums)	Other Requirements(minimums)	Notes
<b>9<sup>th</sup> Grade Core Courses</b>			
CP Environmental Science <b>2237 2238 (ICS)</b>	Completion of 8 <sup>th</sup> grade science		
CPE Biology 9 <sup>th</sup> Grade <b>2021</b>	Completion of 8 <sup>th</sup> grade science with a B or higher	Must be enrolled in Alg 1, Hon Alg 1, CPE Geometry	
Pre-AP Biology (7 periods) <b>2020</b>	<ol style="list-style-type: none"> <li>1. Successful completion of grade 8 Science with a grade of B+, or 8<sup>th</sup> grade enrichment science with a C+ or higher</li> <li>2. Successful completion of grade 8 Language Arts and Math with a grade of B</li> <li>3. Recommendation of Science teacher, which must include:               <ol style="list-style-type: none"> <li>a. Strong writing, math, and analytical skills.</li> <li>b. High motivation, clear interest in course work, with strong work ethic.</li> <li>c. Good attendance and strong class participation.</li> </ol> </li> <li>4. Subject to departmental approval based on review of transcript.</li> <li>5. RI score of 1150 or higher</li> <li>6. SMI score of 1050 or higher</li> </ol> <p>To be recommended into Pre-AP Biology students must meet <b>3</b> of the criteria above,</p>		



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### 10<sup>th</sup> Grade Core Courses

CP Chemistry (5 periods) <b>2341</b> <b>2342 (ICS)</b>	Completion of 9 <sup>th</sup> grade Environmental Science, or completion of CP Biology		Recommendation of biology teacher
CPE Chemistry (5 periods) <b>2343</b>	C+ in CPE Biology, or A in 9 <sup>th</sup> grade Environmental Science, in addition to department review	C+ or better in Algebra 1,	Recommendation of the biology/physics teacher. *Recommendations may be made with reservation if the student does not meet requirements with approval from the Science or STEM Department Supervisor
Pre-AP Chemistry* (7 periods) <b>2340</b>	B in Pre-AP Biology B <sup>+</sup> in CPE Biology	B in Honor Alg 1 B+ in CPE Alg 1, B+ in CPE Geometry Or B in Honors Geometry B in Honor Algebra 2	*Recommendations may be made with reservation if the student does not meet requirements with approval from the Science Department Supervisor



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### 11<sup>th</sup> Grade Core Courses

CP Physics 11/12 <sup>th</sup> <b>2233</b>	B, C, D in Chemistry Lab, C in CPE Chemistry	C or D in CP Alg 1 C or D in most recent math course	
CPE Physics 11/12 <sup>th</sup> <b>0861</b>	A/B+ in CP Chemistry Lab, B in CPE Chemistry Lab	B in CPE Alg 1, B or higher in most recent math course, and/or demonstrate proficiency in essential mathematical operations necessary for success in science as demonstrated on math and science assessments.	
PreAP Physics (7 periods over lunch) <b>2229</b>	B+ in CPE physics (if AP 1 is second yr. of physics) C+ in Pre-AP Chemistry B <sup>+</sup> in CPE Chemistry C <sup>+</sup> in Pre-AP Biology B+ in CPE Biology	C+ in Honors Algebra 2, or B in CPE Algebra 2, and Must have completed Algebra 2	*Recommendations may be made with reservation if the student does not meet requirements with approval from the Science Department Chair
AP Physics 1 (7 periods over lunch) <b>2230</b>  <b>May be first year physics, or second.</b>	C+ in PreAP Physics (if AP 1 is second year of physics) B+ in CPE physics (if AP 1 is second yr. of physics) If first year: B in Pre-AP Chemistry B <sup>+</sup> in CPE Chemistry C <sup>+</sup> in Pre-AP Biology B+ in CPE Biology	B in Honors Algebra 2, or B <sup>+</sup> in CPE Algebra 2, and Must have completed Algebra 2	*Recommendations may be made with reservation if the student does not meet requirements with approval from the Science Department Chair
***CP Biology Lab (11 <sup>th</sup> Grade) <b>2024</b> <b>2026 (ICS)</b>	Completion of Environmental Science and Chemistry		Necessary for graduation
<b>2234</b> CP Environmental Science (11 <sup>th</sup> grade) <b>2236 (ICS)</b>	Completion of Biology and Chemistry		



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<b>Electives</b>			
AP Physics 1 (7 periods over lunch) <b>2230</b>	B+ in CPE physics (if AP 1 is second yr. of physics) B in Pre-AP Chemistry B <sup>+</sup> in CPE Chemistry C <sup>+</sup> in Pre-AP Biology B+ in CPE Biology	B in Honors Algebra 2, or B <sup>+</sup> in CPE Algebra 2, and Must have completed Algebra 2	*Recommendations may be made with reservation if the student does not meet requirements with approval from the Science Department Chair
Marine Biology <sup>†</sup> (5 periods) (Middle College) <b>2025</b>	B in Pre-AP Biology B+ in CPE Biology B in Pre-AP B+ in CPE Chemistry A in CP Chemistry	Interest and motivation	*Recommendations may be made with reservation if the student does not meet requirements with approval from the Science Department Chair  <sup>†</sup> Middle College Course Honors Course. Student must demonstrate interest and demonstrate commitment to college level work via interview, <i>if necessary</i> . <b>May NOT be used as a third year of Science</b>
Honors Human Anatomy and Physiology <sup>†</sup> (Middle College) (5 periods) <b>2027</b>	B in Pre-AP Biology B <sup>+</sup> in CPE Biology B in Pre-AP Chemistry B <sup>+</sup> in CPE Chemistry	Student must have completed their 3 <sup>rd</sup> year science requirement, or be concurrently enrolled in their 3 <sup>rd</sup> year science.	*Recommendations may be made with reservation if the student does not meet requirements with approval from the Science Department Chair <sup>†</sup> Middle College Course Honors Course. Student must demonstrate interest and demonstrate commitment to college level work via interview, <i>if necessary</i> . <b>May NOT be used as a third year of Science</b>



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<p>CP Human Anatomy and Physiology (5 periods)</p>	<p>C in CP Biology C in CPE Biology C in CP Chemistry C in CPE Chemistry</p>	<p>Student must have completed their 3<sup>rd</sup> year science requirement, or be concurrently enrolled in their 3<sup>rd</sup> year science.</p>	<p>This course will provide a survey of anatomy and physiology of the human body.</p>
<p>AP Biology (7 Periods) <b>2380</b></p>	<p>B in Pre-AP Biology B+ in CPE Biology B in Pre-AP Chemistry B+ in CPE Chemistry May enroll as a 10<sup>th</sup> grader, but must be concurrently enrolled in PreAP Chemistry. Currently enrolled in, or Completion of Physics</p>	<p>B in Honors Alg 1 B+ in CPE Alg 1 Must have completed, or be enrolled in Alg 2</p>	<p>* Recommendations may be made with reservation if the student does not meet requirements with approval from the Science Department Supervisor. Student must demonstrate interest and demonstrate commitment to college level work via interview, with teacher and Science Supervisor (<i>if necessary</i>). <b>May NOT be used as a third year of Science</b></p>
<p>AP Chemistry (7 periods) <b>2382</b></p>	<p>B in Pre-AP Biology B+ in CPE Biology B in Pre-AP Chemistry B+ in CPE Chemistry B<sup>+</sup> in CPE Physics</p>	<p>B+ in Honors Alg 2, or B+ in Algebra 2, Must have completed, or be enrolled in PreCalc</p>	<p>* Recommendations may be made with reservation if the student does not meet requirements with approval from the Science Department Chair. Student must demonstrate interest and demonstrate commitment to college level work via interview, <i>if necessary</i>.</p>



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<b>Electives*</b>			
AP Physics C <i>Mechanics/Electromagnetism</i> <i>Physics with Calculus</i> (7 periods) <b>-May be taken as a second year physics after AP Physics 1, or PreAP Physics</b>	C+ in AP Physics 1, or B in Pre AP Physics B <sup>+</sup> in Advanced Physics B in Pre-AP Chemistry B <sup>+</sup> in Advanced Chemistry C <sup>+</sup> in Pre-AP Biology B <sup>+</sup> in Advanced Biology	B in Pre-Calculus and enrolled in Calculus A/B C <sup>+</sup> in Math Analysis and enrolled in Calculus B/C	*Recommendations may be made with reservation if the student does not meet requirements with approval from the Science Department Supervisor. Student must demonstrate interest and demonstrate commitment to college level work via interview, <i>if necessary</i> .
Medical Technology <i>Senior Year Elective</i>	2.0 GPA and completion of all required science courses		Minimum GPA 2.0 Student should demonstrate an interest in the allied health fields, such as nursing assistant, medical technologist, x-ray technician, phlebotomist, and similar professions. Note: Students who are interested in pre-med should take AP Bio, AP Chemistry, and AP Physics before enrolling in Medical Technology, or concurrently during the senior year.