



## Science Courses

CREDIT	COURSE	COURSE TITLE	PREREQUISITE	OFFERED
.5 .5	3000 3002	Integrated Physical Science, S1 Integrated Physical Science, S2	None	9
.5 .5	3004 3006	Integrated Physical Science Honors, S1 Integrated Physical Science Honors, S2	A or B in 8th grade Algebra and A or B in 8th grade Earth Science	9
.5 .5	3008 3010	Principles of Chemistry, S1 Principles of Chemistry, S2	Successful completion of Physical Science	10-12
.5 .5	3012 3014	Chemistry, S1 Chemistry, S2	C or better in Physical Science or Physical Science Honors	10-12
.5 .5	3016 3018	Chemistry Honors, S1 Chemistry Honors, S2	A or B in Physical Science Honors, A in Physical Science or Physics 1. Concurrently enrolled in Higher Algebra or beyond.	10-12
.5	T7202S	Pre-AP Chemistry, summer, Tonka Online	Students should be registered for AP Chemistry in the fall; optional course for preceding summer, elective credit	9-12
.5 .5	AP304 AP306	AP Chemistry, S1 AP Chemistry, S2	A or B in Physical Science Honors with teacher recommendation and A or B in Higher Algebra	10-12
.5 .5	T3100 T3102	AP Environmental Science, part 1, Tonka Online Select Term: T3100S / T3102F  AP Environmental Science, part 2, Tonka Online Select Term: T3102S / T3102F / T3102W	Chemistry, Physical Science. <i>This course may also be taken through VANTAGE course #V300 (grades 11-12)</i>	11-12
.5	T3023	Neuroscience, Tonka Online	None	9-12
.5 .5	3020 T3020	Human Anatomy & Physiology 1 Human Anatomy & Physiology 1, Tonka Online	Physical Science or Physical Science Honors, Chemistry <i>This course may also be taken through VANTAGE #V200 (grades 11-12)</i>	10-12
.5	3022	Human Anatomy & Physiology 2	Human Anatomy and Physiology 1 or VANTAGE Health Sciences Human Anatomy, Physical Science, and Chemistry	11-12
.5	3048	Forensic Science	Chemistry	11-12
.5	3024	Earth & Space Systems	Physical Science or Physical Science Honors	10-12
.5	3026	Astronomy	None	10-12



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CREDIT	COURSE	COURSE TITLE	PREREQUISITE	OFFERED
.5	3052	The Geology and Biomes of US Parks and Forests	None	10-12
.5 .5 .5 .5	3028 3030 T3028 T3030	Physics, S1 Physics, S2 Physics, part 1, Tonka Online Select Term: T3028S / T3028F Physics, part 2, Tonka Online Select Term: T3030S / T3030W	Physical Science or Physical Science Honors	11-12
.5 .5	AP300 AP302	AP Physics 1, grade 9, S1 <sup>1</sup> AP Physics 1, grade 9, S2 <sup>1</sup>	8th grade Physical Science, Higher Algebra, 99th percentile math & reading	9 9
.5 .5	AP328 AP330	AP Physics C-Mechanics , S1 AP Physics C-Mechanics, S2	Physical Science, Calculus (completed or concurrent)	11-12
.5	T3104W	AP Physics C–Mechanics, Tonka Online	<b>Tonka Online: This semester-long Tonka Online course is for students who have already taken AP Physics 1 and wish to take the AP Physics C: Mechanics test..</b> Have completed or be enrolled in both AP Physics 1 AND a calculus course	10-12
.5 .5	AP324 AP326	AP Physics C – Electricity and Magnetism with topics in Modern Physics, S1 AP Physics C – Electricity and Magnetism with topics in Modern Physics, S2	Calculus course and AP Physics 1 (or another physics course with teacher recommendation). <i>AP Physics C-Mechanics Online is highly recommended but not required.</i>	11-12
.5 .5	3032 3034	Principles of Physics, S1 Principles of Physics, S2	Physical Science, Quadratic Algebra	11-12
.5 .5	3036 3038	The Physics in Home Renovation, S1 The Physics in Home Renovation, S2	None	11-12
.5 .5	3040 3042	Principles of Biology, S1 Principles of Biology, S2	Physical Science, Chemistry is strongly recommended.	11-12

<sup>1</sup> Must register concurrently with English 9 Honors Communications (#1008 and #1010)



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.5 .5 .5 .5	3044 3046 T3044 T3046	Biology, S1 Biology, S2 Biology, part 1, Tonka Online Select Term: T3044S / T3044F Biology, part 2, Tonka Online Select Term: T3046S / T3046F / T3046W	Physical Science, Chemistry	11-12
.5	T7204S	Pre-AP Biology, summer only, Tonka Online	Students should be registered for AP Biology in the fall; optional course for preceding summer, elective credit	10-11
.5 .5	AP320 AP322	AP Biology, S1 AP Biology, S2	Physical Science and Chemistry	11-12
.5 .5	3100 3102	Scientific Research, S1 Scientific Research, S2	Successful completion of an AP or IB Science course. Student must have achieved a 3 or higher on an AP Science Exam or a 4 or Higher on an IB Science exam. (Students should also take all core sciences of Chemistry, Biology and Physics during their four years. This does not replace one of those.)	10-12
.5 .5	3104 3106	Scientific Research II, S1 Scientific Research II, S2	Successful completion of Scientific Research I and recommendation of a Scientific Research instructor.	11-12
.5 .5	3108 3110	Scientific Research III, S1 Scientific Research III, S2	Successful completion of Scientific Research II and recommendation of a Scientific Research instructor.	12
.5 .5	IB300 IB302	IB Biology SL, S1 IB Biology SL, S2	Chemistry or Chemistry Honors	11-12
.5 .5	IB304 IB306	IB Biology HL, S1 IB Biology HL, S2	IB Biology SL	12
.5 .5	IB308 IB310	IB Physics SL, S1 IB Physics SL, S2	Chemistry	11-12
.5 .5	IB312 IB314	IB Sports, Exercise and Health Science SL, S1 IB Sports, Exercise and Health Science SL, S2	Chemistry, Physical Science	11-12
.5 .5	IB316 IB318	IB Sports, Exercise and Health Science HL, S1 IB Sports, Exercise and Health Science HL, S2	IB Sports, Exercise and Health Science SL	12



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CREDIT	COURSE	COURSE TITLE	PREREQUISITE	OFFERED
2.0	V300	VANTAGE: Global Sustainability earning credit for AP Environmental Science (science credit) and Global Studies & Economics (social studies credit)	Biology, AP Biology or IB Biology SL Interest in sustainability	11-12
2.0	V200	VANTAGE: Health Sciences Earning credits in AP Psychology (social studies credit) and Anatomy (science credit)	Physical science and algebra; interest in health sciences; chemistry strongly recommended.	11-12