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Geoscience

Four-Year Academy

Graduation Requirements	9th Grade	Credits	10th Grade	Credits	11th Grade	Credits	12th Grade	Credits	Y 13
English (x4 credits)	English 9 OR Honors English 9	1	English 10 OR Honors English 10	1	English 11 OR AP English Language	1	English 12 OR College Prep English OR AP English Literature	1	
Math (x3 credits)	Must take 1.0 math 9th gr year as recommended by facilitator & math teacher	1	Must take 1.0 math 10th gr year as recommended by facilitator & math teacher	1	Must take 1.0 math 11th gr year as recommended by facilitator & math teacher	1	Must take 1.0 math 12th gr year as recommended by facilitator & math teacher	1	
Science (x3 credits) (1 Life; 1 Physical; 1 Elective)	Biology OR Honors Biology	1	Chemistry OR Honors Chemistry	1	Chose one or more: College OR AP Chemistry College OR AP Biology Physics OR AP Physics I AP Physics II AP Physics C AP Environmental Science			2	
Social Studies (x3 credits) (1 World; 1 US; 0.5 Govt; 0.5 elective)	World History OR Honors World History	1	Highly recommended: World Geography OR Honors World Geography	.5	US History OR AP US History	1	US Govt OR AP US Govt	.5	
Communications (0.5 credit)	Geoscience Capstone Course will fulfill the Communications Requirement								Y 14
Financial Literacy: (0.5 credit)	Financial Literacy								
Fine/Performing Arts (1 credit)	Student choice - any year(s) 1+								
Health: (0.5 credit)	Health Education <i>Optional:</i> Health may be taken online through eAcademy if space is needed in student's schedule.								
Language Applications: (1.0 credit)	Student choice - any year(s) 1+ College-bound students should enroll in 2 years of the same World Language.								
Life Studies: (0.5 credit)	Geoscience Senior Capstone fulfill this requirement								
Physical Education (0.5 credit)	PE Concepts OR Cheer/Drill Team OR Strength & Conditioning	.5	<i>Optional:</i> P.E. Concepts may be taken online through eAcademy if space is needed in student's schedule. This can be scheduled during the summer - grades 10-12 only. <i>Other online classes are available at eacademy.olatheschools.com</i>						
STEM (1.0 credit)	Students fulfill STEM graduation requirement through Four-Year Academy Courses								
Individual Focus (5.5 credits) Four-Year Academy Coursework	Geoscience Investigations	1 .5	Required: Geoscience Applications Recommended: Marine Biology, AND/OR Astronomy	1	Advanced Geosciences	1 1	Geoscience Senior Capstone	1	
Total Credits: (24 total needed for graduation)	9th grade total:	7	10th grade total:	7	11th grade total:	7	12th grade total:	3+	
NOTE: Credits beyond requirements in any category will fall under individual focus.									
Students may earn an endorsement on their transcript for completing all Academy requirements, including successful completion of coursework, outside-the-classroom learning opportunities, field experiences, and capstone projects. Refer to the Academy's Endorsement Requirements provided by facilitator or found on the web at olatheschools.org/careerpathways									

Graduating Class of 2028 and Beyond



Geoscience

Four-Year Academy



Earth, Ocean, Space, & the Environment

WHO WE ARE:

Students in the Geoscience Academy have a desire to study the earth and its processes. They engage in exploration of the world of Geoscience by engaging in authentic learning experiences, working with industry standard research equipment and scientific tools. A sense of community is developed through their collaborative experiences with other like-minded individuals. The study of Geoscience addresses critical issues such as water and mineral resources, stewardship of the environment, along with studies in meteorology, oceanography, marine biology, paleontology, and more.

WHAT WE DO:

- Study the ocean and its life through 3000+ gallons of salt water aquaria.
- Work with industry and university professionals through unique partnerships and internship opportunities.
- Explore the natural world to identify environmental problems – both natural and human made.
- Participate in independent project design based on student's area of interest.
- Field experiences to the ocean and mountains to allow students to apply their knowledge in a real world setting.
- Use advanced lab equipment including Geographical Information Systems (GIS), a paleontology lab, and Weatherbug weather center.