

# MIHS New Courses-2023-2024

## Applied Alg I and Alg II

Course Title	<a href="#">Applied Algebra 1</a>
Department	Crest/CCR/Math
Lead Teacher(s)	Emily King
Anticipated Grad Credits the Course Will/Might Fulfill	Algebra 1 is a required course for HS graduation.
Targeted Student Group i.e. freshman, students looking for specific experiences, etc.	<p>Applied Algebra 1 will provide an option for 9th-12 grade students that learn differently or prefer to learn differently. The course will offer an approach to teaching math that is grounded in the real world and career focused.</p> <p>Additionally, students who complete a sequence of courses through CTE fulfill their SBAC graduation requirement.</p>
Is this course part of an existing course sequence or does it fit connect to other courses either within or outside the department?	This course is the equivalent of an Algebra 1 course. . After this course students will be able to go to Applied Geometry or Regular Geometry. For their required 3rd year of math students will be able to go to Bridge to College Math, Applied Algebra 2, Algebra 2, or any other course meeting their post high school goals.
Course Description	Applied Algebra 1 focuses on the application of mathematics and statistics to the solution of functional problems in fields such as engineering and the applied sciences. The course includes practical application of mathematical concepts such as solving simple equations and inequalities, linear equations, systems of equations, functions, exponents, probability, quadratics, and factoring.

Course Title	<a href="#">Applied Algebra 2</a>
Department	Crest/CCR/Math
Lead Teacher(s)	Emily King
Anticipated Grad Credits the Course Will/Might Fulfill	<p>Washington state requires that students earn at least three credits of math. The third credit needs to “meet the student's education and career goals identified in the student's high school and beyond plan”</p> <p>Additionally, students who complete a sequence of courses through CTE fulfill their SBAC graduation requirement.</p>

	This course is pending dual credit with Renton Tech
Targeted Student Group i.e. freshman, students looking for specific experiences, etc.	This course will provide an option for 9th-12 grade students that learn differently or prefer to learn differently. The course will offer an approach to teaching math that is grounded in the real world and career focused.
Is this course part of an existing course sequence or does it fit connect to other courses either within or outside the department?	This course is the equivalent of an Algebra 2 course. Algebra 2 is a required course for most 4 year universities. After this course Seniors will be able to go to College prepared for Pre-Calculus. Juniors will be ready for Bridge to College Math or Advanced Algebra with Financial Applications.
Course Description	Applied Algebra 2 focuses on the application of mathematics and statistics to the solution of functional problems in fields such as engineering and the applied sciences. The course includes practical application of mathematical concepts such as exponents and systems of equations and inequalities. Students will learn about functions, quadratic equations, conic sections, exponential and logarithmic functions, polynomials, rational functions, sequences and series, probability, and trigonometric functions and identities.

### Marine Science

Course Title	Marine Science
Department	Science/Crest/CCR
Lead Teacher(s)	Elysse Forester
Anticipated Grad Credits the Course Will/Might Fulfill	Lab Science, CTE
Targeted Student Group i.e. freshman, students looking for specific experiences, etc.	Students needing science credit that struggle with math, students interested in an Agriculture or Natural Resources career pathway, Students who want to pursue a marine science career.
Is this course part of an existing course sequence or does it fit connect to other courses either within or outside the department?	This course would increase offerings in the Agriculture pathway for the CTE graduation pathway as well as provide a 3rd year science offering at Crest.

Course Description	Marine Science is a Lab Science course that will expose students to aspects of the marine world including aquaculture production, physical and chemical sciences related to the marine environments, plant and animal life in marine ecosystems, marine ecology and zoology and research and careers related to marine science. This course will expose students to real world issues such as climate change and habitat loss and hands-on activities based on biological, chemical and physical science properties related to marine science.
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### Honors Human Geo and Climate

Course Title	Honors Human Geography and Climate Change
Department	Social Studies
Lead Teacher(s)	Amanda Mattocks and David Willecke
Anticipated Grad Credits the Course Will/Might Fulfill	Social Studies Elective
Targeted Student Group i.e. freshman, students looking for specific experiences, etc.	9th grade
Is this course part of an existing course sequence or does it fit connect to other courses either within or outside the department?	Replacement for year-long Early Civilizations
Course Description	In this course, students will examine how patterns of human population and land use have shaped cultures and the environment around the globe. Students will use the tools of geographers, including maps, charts, and graphs, to understand topics such as migration, religion, and economic development. Students will explore the impact of climate change on people and the environment, as well as the role of individuals and institutions in pursuing policy solutions to address the causes of climate change. Since this is an honors course, students will be expected to comprehend outside reading in an advanced text and supplemental materials. Success in Honors Human Geography and Climate Change prepares a student to select Honors Modern World History in grade ten.

## Cross-Age Teaching

Course Title	Cross Age Teaching (Performing Arts/ Elementary)
Department	Fine Arts
Lead Teacher(s)	Kyle Thompson or other performing arts staff as needed.
Anticipated Grad Credits the Course Will/Might Fulfill	1.0 Fine Arts/CTE
Targeted Student Group i.e. freshman, students looking for specific experiences, etc.	Sophomores, Juniors, Seniors
Is this course part of an existing course sequence or does it fit connect to other courses either within or outside the department?	<p>Connected to 5<sup>th</sup> Grade Band, Orchestra, Choir.</p> <p>This course is designed to be a college prep course, as an introduction to education and leadership.</p>
Course Description	<p>This course is designed for current Instrumental Performing Arts students (Band, Orchestra, Choir) who wish to help teach and mentor MISD elementary instrumental and performing arts students. During this class, student teachers will study the principles of education as a formative experience through an immersive, mentorship program culminating in hands-on teaching experiences in the classroom with MISD elementary students.</p> <p>Research implicitly supports the idea that cross-age teaching enhances the five core competencies that define social and emotional learning for the teen teacher, the younger learner, or both groups concurrently: self-awareness, social awareness, self-management, relationship skills and responsible decision-making. As such, the spectrum of this course will empower student teachers to explore and prepare for a wide range of jobs in schools and afterschool programs, non-profit institutions, international development agencies, cultural institutions, and government work.</p> <p>During this course, students will gain a basic foundation for work in Education, Sociology, Anthropology, Psychology, History, Political Science, or International studies as well as</p>

	<p>explore institutional pathways through education in our region.</p> <p>Students must be enrolled in 1 corresponding discipline-related to Mercer Island Performing Arts (Instrumental, vocal) class if offered, or on teacher Approval.</p> <p>Occasional individual transportation during the school day may be requested.</p>
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**Performing Arts Capstone**

Course Title	PERFORMING ARTS CAPSTONE and BEYOND
Department	Fine Arts
Lead Teacher(s)	Kyle Thompson or other performing arts staff as needed.
Anticipated Grad Credits the Course Will/Might Fulfill	Fine Arts
Targeted Student Group i.e. freshman, students looking for specific experiences, etc.	Junior or Senior Band,Orchestra, Choir students AND accomplished performing art students in non-traditional areas or areas not offered by MISD.
Is this course part of an existing course sequence or does it fit connect to other courses either within or outside the department?	This course is a prep pathway to college level performing arts participation.
Course Description	This upper-level course is designed to support a Junior or Senior performing arts student (Example: Band, Orchestra, Choir, Drama, Dance, Piano etc. ) who wishes to deeply explore their performance, develop a portfolio and/or audition material for future Performing Arts ambitions such as college or conservatory participation, and explore the business and career pathways available in the arts. While pursuing a concentration in their medium, students will be challenged to expand their creative ideas as well as their technical potential. The culminating outcomes of this class could include (depending on student goals,) a comprehensive portfolio, a partial or full musical recital, preparation of college-level audition/scholarship requirements, a comprehensive understanding of

	<p>upper-level idiom technical skills, and mentorship or internship.</p> <p>Outside exploration and integration in a student's art field of focus is highly encouraged and can be used to satisfy project-based elements of the course requirements. Outside explorations include but are not limited to Private Lessons, Arts Internships, Drama productions etc.</p> <p>Dedicated practice or exploration time, in line with course goals, will be provided in class.</p> <p>Students must be enrolled in 1 corresponding, discipline-related Mercer Island Fine Art class if offered, or on teacher approval if in a non-traditional area (Example: Band, Orchestra, Choir, Drama, Dance, Piano etc.).</p>
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