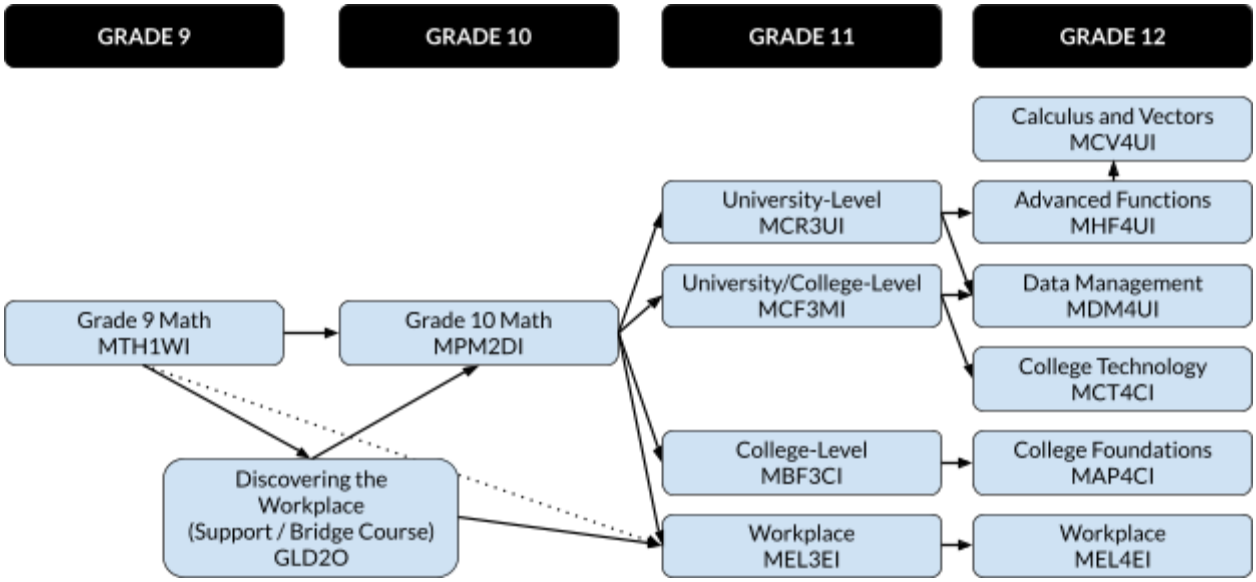
MATHEMATICS



Grade	Course	Type	Prerequisite	Course Details
10	MPM2DI Principles of Mathematics	Academic	MTH1WI or MFM2PI	This course enables students to broaden their understanding of relationships and extend their problem-solving and algebraic skills. Students will solve and apply linear systems; explore quadratic relations and their applications; verify properties of geometric figures; and investigate trigonometry. Students achieving Level 1 or 2 in MTH1WI should consider taking GLD2O in addition to MPM2DI.
10	MPM2DW	Enhanced	MTH1WI	For students who are enrolled in the PHS Enhanced Program. Students will be encouraged to seek optional enrichment activities such as Math Contests which may come with some cost.
10	GLD2OI Discovering the Workplace Math Preparation for MPM2DI	Support / Bridge Course	MTH1WI	This course is designed to help students deepen their understanding of mathematical concepts that will be important for their learning when transitioning between MTH1W and MPM2D, while gaining necessary tools and skills for the workplace of tomorrow. Through integrated activities related to career exploration, experiential learning, and entrepreneurship, students will have an opportunity to improve their understanding of foundational mathematical concepts and skills. This course will be an interactive experience to help students gain transferable skills for continued learning and work.

Grade	Course	Type	Prerequisite	Course Details
11	MCR3UI Functions	University	MPM2DI or MPM2DW	This course continues to build mathematical skills and abstract thinking using Polynomial, Exponential, Discrete and Trigonometric Functions. This course leads to choices for the student to be able to take MDM4U and MHF4U.
11	MCR3UW	Enhanced	MPM 2DW	For students who are enrolled in the PHS Enhanced Program. Students will be encouraged to seek optional enrichment activities such as Math Contests which may come with some cost.
11	MCF3MI Functions and Applications	University/ College	MPM2DI or MFM2PI	This course builds mathematical skills using an application focus. Quadratic, Exponential and Trigonometric Functions will be used. Success in this course enables the student to take <u>one</u> 4U math, MDM4U.
11	MBF3CI Foundations for College Math	College	MFM2PI	Students will apply mathematics to solve problems involving quadratic relations, measurement and geometry, compound interest, financial decisions and data analysis.
11	MEL3EI Math for Work and Everyday Life	Workplace	MTH1WI or MFM1PI or MPM2PI	This course is intended for students who have previously taken Applied level math courses. The focus of this course is on the Mathematics of day-to-day living. Learn about payroll deductions, government taxes, banking transactions, investing and borrowing money and the costs of owning a car.

Grade	Course	Type	Prerequisite	Course Details
12	MHF4UI Advanced Functions	University	MCR3UI or MCR3UW	This course extends students' experience with functions. Students will investigate the properties of polynomial, rational, logarithmic and trigonometric functions; students will broaden their understanding of rates of change. This course is intended both for students who plan to study mathematics in university and for those wishing to consolidate their understanding of mathematics before proceeding to any one of a variety of university programs.
12	MCV4UI Calculus & Vectors	University	MCR3UI or MCR3UW	This course builds on students' previous experience with functions and their developing understanding of rates of change. Students will solve problems involving geometric and algebraic representations of vectors, lines and planes and continue with derivatives of polynomial, rational, exponential, and sinusoidal functions. This course is intended for students who plan to study mathematics in university and who may choose to pursue careers in fields such as physics and engineering. **Must be taken after or concurrently with MHF4UI.**
12	MDM4UI Data Management	University	MCR3UI or MCF3MI	This University level course is ideal for students entering Business, Social Sciences or any field that requires statistical analysis. Topics of study include: organizing data, counting techniques, probability and statistics.
12	MAP4CI Foundations for College Math	College	MBF3CI or MCF3MI	This course provides preparation for many college programs including Business, Health Sciences and Human Services. Students solve problems involving home ownership, apply trigonometry, geometry and measurement to solve real-world applications and use statistical methods to analyze problems.
12	MEL4EI Math for Work and Everyday Life	Workplace	MEL3EI	The focus of this course is to broaden understanding of Mathematics as it is applied to day-to-day living. Learn about applications in measurement, geometry, finance and budgeting.