

Pre-Calculus

Course Information											
Instructor: Mark Ryder Phone: 425.385.5142 email: mryder@everettsd.org	Textbook: <u>Pre-calculus: Graphical, Numerical, Algebraic</u> by Demana, Waits, Foley and Kennedy OnlineHS: www.onlinehs.net										
Course Description –											
<ul style="list-style-type: none"> • This course is offered for 10 CREDITS through Everett Community College as a College in the High School Course (Math 141/142) WWW. EverettCC.edu/CHS 											
<p>Pre-Calculus with Trigonometry: Concepts and Applications prepare students for calculus by using new developments such as technology and cooperative learning to instill the concept that variables really vary. Students use the law of cosines to model the position of an orbiting satellite, rather than simply to analyze a fixed triangle. They fit functions to data, spiraling back to recurring themes like outer space, sports, music, aviation, automobiles, and finance as their mathematical maturity develops. Topics included in this course are coordinate geometry, trigonometry, sequences and series, solutions of equations, and complex numbers as well as many other topics critical to the study of calculus and beyond.</p>											
Essential Learning Outcomes (from Common Core Standards)											
<ul style="list-style-type: none"> • Students will apply math to a situation and be able to explain how they reached their correct conclusion. • Students will use algebra to solve equations and model complex situations. • Students will use function concepts and procedures to understand mathematical relationships. • Students will use geometry to back up a claim or observation, model situations, and draw conclusions. • Students will be able to apply a basic modeling cycle to a situation. • Students will use the standards of mathematical practices when solving problems. 											
Course Outline											
1st Semester Units: 1. Prerequisite Skill Review (Chapter P) 2. Functions and Graphs (Chapter 1) 3. Polynomial, Power and Rational Functions (Chapter 2) 4. Exponential, Logistic, and Logarithmic Functions (Chapter 3) 5. Systems and Matrices (Chapter 7)						2nd Semester Units: 1. Trigonometric Functions (Chapter 4) 2. Analytic Trigonometry (Chapter 5) 3. Application of Trigonometry (Chapter 6) 4. Analytic Geometry in two and three dimensions (Chapter 8) 5. Introduction to Calculus – Time permitting (Chapter 10)					
Grades: http://www.everettsd.org/lms											
Grading is based on Total Points Earned: <ul style="list-style-type: none"> ○ Assignments (15%) ○ Discussions (7%) ○ Quizzes (33%) ○ Chapter Tests (30%) ○ Mid-Term Final (The Mid-Term and Final will be a WRITTEN Proctored face to face final) (15%) (Both 141 and 142 will have a WRITTEN Mid-Term/Final)											
Letter Grade	A	A –	B +	B	B –	C +	C	C –	D +	D	F
Percent	100-93	92-90	89-87	86-83	82-80	79-77	76-73	72-70	69-67	66-60	59-0
GPA	4.0	3.7	3.3	3.0	2.7	2.3	2.0	1.7	1.3	1.0	0.0