**ENG410**  AP LITERATURE AND COMPOSITION

*Course Fee:* AP Exam Fee
*Prerequisite:* Completion of AP Language and Composition or instructor’s signature

*Description:* Because the course is conducted like a seminar, each student is expected to contribute consistently to the discussions. Nightly readings, essays, and in-class timed writes are to be expected. **Students are required to take the AP Literature and Composition exam.**

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**MATHEMATICS**

**MTH111**  PRE-ALGEBRA

*Course Fee:* None
*Prerequisite:* Teacher recommendation

*Description:* This course is intended for students at the 9th grade level who need review of math skills in order to be successful in Algebra 1. Topics covered include solving equations and inequalities, graphing linear equations, exploring patterns, rational number operations, basic geometry, ratio and proportion, and statistical graphs and applications.

**MTH152**  ALGEBRA 1

*Course Fee:* None
*Prerequisite:* Successful completion of Pre-Algebra (recommended grade of C- or better) or teacher recommendation

*Description:* This course includes the study of rational and real number operations, solving equations and inequalities, evaluating expressions, polynomial operations, factoring polynomials, solving quadratic equations, linear graphing, proportions, operations with radicals and some advanced algebra topics.

**MTH250**  GEOMETRY

*Course Fee:* None
*Prerequisite:* Successful completion of Algebra 1 (recommended grade of C- or better)

*Description:* This course includes the study of the fundamental units of plane geometry (points, lines, planes, and angles), congruency, similarity, two and three dimensional objects and basic trigonometric functions. Deductive methods of reasoning and logic, geometry axioms, and algebraic concepts will be applied to and with geometric properties.

**MTH252**  ALGEBRA 2

*Course Fee:* Graphing Calculator Required
*Prerequisite:* Successful completion of Geometry (recommended grade of C- or better.)

*Description:* This course includes solving linear and quadratic equations, solving systems of linear equations and inequalities, graphing functions, linear programming, operations with rational expressions and exponents, trigonometry properties and laws, with some study of probability and statistics.

**MTH255**  HONORS ALGEBRA 2

*Course Fee:* Graphing Calculator Required
*Prerequisite:* B- or better in Geometry or teacher recommendation

*Description:* This course includes the same topics as Algebra 2, but it will move at a quicker pace, include more independent work and projects, and offer the study of more advanced problems. This course is recommended for students who are interested in continuing into Honors Pre-Calculus and AP Calculus.
### MTH462 PRE-CALCULUS

<table>
<thead>
<tr>
<th>Course Fee:</th>
<th>Graphing Calculator Required</th>
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<tbody>
<tr>
<td>Prerequisite:</td>
<td>Successful completion of Algebra 2 (recommended grade of C- or better.)</td>
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**Description:** This course will focus on graphical representation of advanced algebraic relations and trigonometric functions. The topics include polynomial, rational, exponential and logarithmic functions. Trig functions and their applications will also be covered. Additional topics include sequences, series, probability, and analytic geometry.

### MTH460 HONORS PRE-CALCULUS

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<tr>
<td>Prerequisite:</td>
<td>Grade of B- or better in Algebra 2 or teacher permission</td>
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**Description:** This course is intended for students who are interested in AP Calculus. This course will focus on graphical representation of advanced algebraic relations and trigonometric functions. Topics include polynomial, rational, exponential, logarithmic and trig functions with applications. Emphasis is placed on multi-step problem solving. **College credit is available through the University of Washington College-in-the-High School Program with registration, payment, and completion of class.**

### MTH466 AP CALCULUS

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<th>Course Fee:</th>
<th>AP Exam Fee</th>
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<tbody>
<tr>
<td>Prerequisite:</td>
<td>Completion of Pre-Calculus or teacher permission</td>
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**Description:** This course parallels a college-level introductory calculus course. Topics covered in the curriculum include limits, derivatives and applications of the derivative, and integration and applications of the integration. Functions studied include linear, polynomial, logarithmic, trigonometric and exponential. Students are required to take the AP Calculus AB Exam.

### MTH450 AP STATISTICS

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<tbody>
<tr>
<td>Prerequisite:</td>
<td>Grade of B- or better in Pre-Calculus or grade of B or better in Algebra 2 with teacher recommendation</td>
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**Description:** This course parallels an introductory statistics course at the college level. This course introduces the major concepts and tools for collecting, analyzing, and drawing conclusions from data. The four main themes of the course are exploring data, sampling and experimentation, anticipating patterns, and statistical inference. Students are required to take the AP Statistics Exam.

### MTH356 ACCOUNTING I

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<tr>
<th>Course Fee:</th>
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<tr>
<td>Prerequisite:</td>
<td>None</td>
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**Description:** **The language of business.** Students will learn how to keep financial records. They will learn journalizing, posting, completing work sheets, preparing financial reports, and calculating depreciation. On a personal basis, students will complete an IRS Form 1040 with detailed schedule A. In addition to work out of the text, students will complete simulated business projects. Emphasis will be placed on career exploration in this field. **This course may be taken to satisfy a 3rd-year or 4th-year math credit for graduation.** FBLA and/or DECA leadership component.