The mission of Hermon High School is to prepare students for personal success in college, career, and community.
Senior Math Applications

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This course is designed for fourth year students who do not plan to study a math/science/technical field beyond high school. The course will focus on the topics of real life math such as banking, apartment costs, car costs, budgeting, loans, and various day to day scenarios. Applications (especially understanding word problems) will be emphasized.

## Graduation Standards

Standard 1 - Reason and model quantitatively, using units and number systems to solve problems.
Standard 2 - Interpret, represent, create and solve algebraic expressions.
Standard 3 - Interpret, analyze, construct, and solve linear, quadratic, and trigonometric functions.

| Unit 1 | Real Life Math/Budgeting |
| :---: | :---: |
| Summary | Students will explore the following: <br> - Career exploration <br> - Living at home vs. renting an apartment <br> - Cost, leasing and apartment applications <br> - Bill paying <br> - Car loans and purchasing a car <br> - Banking - checking accounts, debit cards, withdrawals, deposits <br> - Credit cards <br> - Bankruptcy <br> - Contracts <br> - College costs <br> - Identity theft <br> - Income tax |
| Performance Indicators Assessed in Unit | S1C - Reason quantitatively and use units to solve problems. <br> $\mathbf{S 1 F}$ - Compute within the real number system. <br> S2H - Understand solving equations as a process of reasoning and explain the reasoning. |

## **Disclaimer:

Throughout the entirety of the course, students may take Accuplacer, ASVAB or SAT sample questions at any time to review/test skills. Students attending EMCC will be required to take the Accuplacer exam to obtain a baseline score. The writing/ELA piece of the Accuplacer will not be addressed in this class.

## Accuplacer Testing Score Sheet:

| ACCUPLACER SCORES |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
|  | Arithmetic \& Elementary Algebra |  |  |
| Programs Requiring Technical Math: <br> Automotive Technology <br> Building Construction Technology <br> Computer Aided Drafting \& Design <br> Computer Repair Technology (MAT 113 or <br> MAT 119 required) <br> Diesel, Truck, \& Heavy Equipment |  | AR $\geq \mathbf{7 5} \quad$ EA < 75 | AR $\geq \mathbf{7 5} \quad$ EA $\geq \mathbf{7 5}$ |
| Electricians Technology* <br> Fine Woodworking \& Cabinetmaking <br> Fire Science Technology | LAM 008 | MATL 113 |  |


| Refrigeration, Air Conditioning, \& Heating* Welding Technology* |  |  |  |
| :---: | :---: | :---: | :---: |
| Programs Requiring Any Level Math: <br> Career Studies <br> Culinary Arts <br> Digital Graphic Design <br> Early Childhood Education (MAT 107 or MAT <br> 108 recommended) <br> Education (107 or 108 recommended) <br> Emergency Medical Services <br> Health Information Technology (MAT 113 or MAT 119 required) <br> Hospitality \& Tourism Management <br> Liberal Studies <br> Medical Assistant (MAS 131 required) <br> Medical Office Technology <br> Outdoor Recreation \& Tourism <br> Restaurant \& Food Service Management <br> Trade \& Technical Occupations | LAM 008 | LAM 009 or MATL 113 | MAT 101 or <br> MAT 107 or <br> MAT 108 or <br> MAT 113 <br> or <br> MAT 119 <br> or <br> MAT 161 or <br> MAS 131 |
| Programs Requiring an Algebra Pathway: <br> Business Management* <br> Civil Engineering Technology* (MAT 119 or MAT 123 required) <br> Computer Systems Technology <br> Criminal Justice <br> Electrical \& Automation Technology* <br> Medical Radiography* | LAM 008 | LAM 009 | MAT 119 |

## Students are encouraged to enroll in the highest level math courses for which they are qualified.

AR $=$ Arithmetic Score $\quad$ EA $=$ Elementary Algebra Score
Courses appearing in red are considered preparatory courses and do not count toward graduation requirements and do not qualify for financial aid.

## ASVAB Minimum Scores:

The minimum score requirements of the different branches of the U.S. Armed Services are listed below:

## AIR FORCE AFOT SCORE REQUIREMENTS

Minimum AFQT Score (with High School Diploma): 36
ARMY AFQT SCORE REQUIREMENTS
Minimum AFQT Score (with High School Diploma): 31
COAST GUARD AFOT SCORE REQUIREMENTS
Minimum AFQT Score (with High School Diploma): 40
MARINE CORPS AFQT SCORE REQUIREMENTS
Minimum AFQT Score (with High School Diploma): 32
NAVY AFQT SCORE REQUIREMENTS
Minimum AFQT Score (with High School Diploma): 31

## SAT Minimum Scores:

Students are considered college- and career-ready when their SAT section scores meet both the Math and the Evidence-Based Reading and Writing benchmarks. It is important to note that college readiness is a continuum students scoring below the SAT benchmarks can still be successful in college, especially with additional preparation and perseverance.

## Benchmark Values and Section Score Ranges:

SAT College and Career Readiness Benchmarks

- Evidence-Based Reading and Writing: 480
- Math: 530

11th Grade Benchmarks

- Evidence-Based Reading and Writing: 460
- Math: 510

10th Grade Benchmarks

- Evidence-Based Reading and Writing: 430
- Math: 480


## 9th Grade Benchmarks

- Evidence-Based Reading and Writing: 410
- Math: 450


## Summative Assessments Retake

- Students have the opportunity to retake summative assessments.
- The student must submit a retake form to the teacher within five (5) school days of the date that the summative assessment score is reported to the student.
- The highest score a student can receive on a retake or late assessment is a 75.
- The score achieved on a retake will replace the current score (even if the score is lower).
- If a student is making up a test from an absence, that assessment will be graded up to 100 .


## Make-up Work

Upon their return to school from an absence, it is the student's responsibility to secure make-up work from their teacher. The due date of the missed work will be one additional class period for each day of absence from that class or at the discretion of the teacher.

## Grading of Formative Assessments

- Formative assessments will count as $30 \%$ of the grade.
- Formative assessments may be scored on either a 0-100 scale or a 0-4 scale.
- The $0-4$ scale will be represented in Power School as $4=100,3=87,2=77$, and $1=67$.
- The method of scoring of formative assessments will be determined by assignment.

