

## MHS \*AP/HONORS COURSES

### **\*AP/Honors Biology**

Grade: 10-12 AP Biology stresses basic facts and their synthesis into major biological concepts and themes. Designed to parallel college level introductory biology courses. Three general areas are covered: molecules and cells, genetics and evolution, and ecology.

Credit: 1.0

Credit Type: Science

Pathway: No

Honors Diploma: Yes

CCN: Yes (Chemeketa CC)

CCN Fee: \$30.00 / AP Exam Fee

**Prerequisite:** C- or higher in Chemistry 1 or B- or higher in Environmental Science

### **\*AP/Honors Biology Lab**

Grade: 10-12 AP Biology Lab stresses basic facts and their synthesis into major biological concepts and themes in a lab setting. Designed to parallel college level introductory biology lab courses. AP Biology inquiry investigations 1 -13 are covered in class.

Credit: 0.5

Credit Type: Science

Pathway: N/A

Honors Diploma: No

CCN: No

Fee: N/A

**Prerequisite:** Taken concurrently with AP/Honors Biology

### **\*AP/Honors Calculus**

Grade:10-12 Prepares students for further study in mathematics, sciences, engineering and other areas. Covers limits, continuity, rates of change, derivatives with applications, definite and indefinite integrals, theorem of calculus, and applications of integrals.

Credit: 1.0

Credit Type: Math

Pathway: No

Honors Diploma: Yes

CCN: Yes (Chemeketa CC)

CCN Fee: \$30.00 / AP Exam Fee

**Prerequisite:** C or higher in Pre-Calculus

### **\*AP/Honors Calculus - EASA**

Grade:10-12 Prepares students for further study in mathematics, sciences, engineering and other areas. Covers limits, continuity, rates of change, derivatives with applications, definite and indefinite integrals, theorem of calculus, and applications of integrals.

Credit: 1.0

Credit Type: Math

Pathway: No

Honors Diploma: Yes

CCN: Yes (Chemeketa CC)

Fee: \$30.00 / AP Exam Fee

**Prerequisite:** C or higher in Pre-Calculus

### **\*AP/Honors Calculus 2**

Grade: 11-12 Combines topics from linear algebra and infinite series. Includes geometric, Taylor and Fourier Series work with applications; polar calculus, parametric calculus and systems applications using matrices and determinants. Topics are beyond the scope of AP.

Credit: 1.0

Credit Type: Math

Pathway: No

Honors Diploma: Yes

CCN: Yes (Chemeketa CC)

CCN Fee: \$30.00 / AP Exam Fee

**Prerequisite:** C or higher in AP Calculus or AP Calculus EASA

\*Must take AP exam for AP transcript credit.

### **\*AP/Honors Chemistry**

Grade: 10-12 AP Chemistry is focused on the concepts presented in the first year college chemistry course covering atomic theory and structure, chemical bonding, nuclear chemistry, states of matter and reactions.

Credit: 1.0

Credit Type: Science

Pathway: No

Honors Diploma: Yes

CCN: No

Fee: AP Exam Fee

**Prerequisite:** Successful completion of Chemistry 1 and Algebra 2

### **\*AP/Honors Chemistry Lab**

Grade: 10-12 AP Chemistry lab is focused on the concepts presented in the first year college chemistry course covering atomic theory and structure, chemical bonding, nuclear chemistry, states of matter and reactions.

Credit: 0.5

Credit Type: Science

Pathway: N/A

Honors Diploma: No

CCN: No

Fee: N/A

**Prerequisite:** Taken concurrently with AP/Honors Chemistry

### **\*AP/Honors Computer Science**

Grade: 11-12 AP Computer Science is meant to be the equivalent of a first semester college course in computer science. It emphasizes an object oriented programming methodology, algorithm development, and data structures through the study of JAVA programming language.

Credit: 1.0

Credit Type: Applied Arts/Elective/Pathway

Pathway: Computer Science

Honors Diploma: Yes

CCN: No

Fee: AP Exam Fee

**Prerequisite:** Visual Basic Programming 1

### **\*AP/Honors Economics**

Grade: 11-12 AP Economics gives students an understanding of the decisions of individuals, households, firms, and governments. Monetary and psychological motivations of these decisions are analyzed and explained.

Credit: 1.0

Credit Type: Social Science

Pathway: No

Honors Diploma: Yes

CCN: No

Fee: AP Exam Fee

**Prerequisite:** C or higher in Economics and Teacher Recommendation

### **\*AP/Honors Environmental Science**

Grade: 11-12 AP Environmental Science is designed to be the equivalent of a one semester, introductory college course in environmental science. This course explores current environmental issues through discussions, field investigations, and extensive lab work.

Credit: 1.0

Credit Type: Science/Pathway

Pathway: Natural Resources Management

Honors Diploma: Yes

CCN: Yes (Portland CC)

CCN Fee: \$0.00 / AP Exam Fee

**Prerequisite:** C- or higher in Chemistry 1 or B- or higher in Environmental Science

\*Must take AP exam to earn AP transcript credit.

### **\*AP/Honors European History**

Grade: 11-12 AP Euro is comparable to a college level Western Civilization class. The class concentrates on the time period from the Renaissance to the present day. Students should be ready to complete large amounts of reading and writing outside of class.

Credit: 1.0

Credit Type: Social Science

Pathway: No

Honors Diploma: Yes

CCN: No

Fee: AP Exam Fee

**Prerequisite:** Teacher Recommendation

### **\*AP/Honors Language & Composition**

Grade: 11 This English course prepares juniors for the AP Language and Composition exam, which measures their ability to analyze, synthesize and compose rhetoric and argument. Students may earn college credit for a score of 3 or higher on the exam.

Credit: 1.0

Credit Type: Language Arts

Pathway: No

Honors Diploma: Yes

CCN: No

Fee: AP Exam Fee

**Prerequisite:** B or higher in Adv. Lang & Lit - 10 or A in Lang & Lit - 10

### **\*AP/Honors Literature & Composition**

Grade: 12 This course teaches students to write an interpretation of a literary text that is based on careful observation of textual details: Structure, style, theme, social and historical values, figurative language, imagery, symbolism, and tone.

Credit: 1.0

Credit Type: Language Arts

Pathway: No

Honors Diploma: Yes

CCN: No

Fee: AP Exam Fee

**Prerequisite:** B or higher in Intro to Comp & Fiction or AP Lang & Comp or A in American Lit or World Lit

### **\*AP/Honors Music Theory**

Grade: 10-12 This rigorous class will challenge advanced music students by introducing all aspects of music theory. Students will take the AP music exam in the spring.

Credit: 1.0

Credit Type: Applied Arts/Elective/Pathway

Pathway: Performing Arts

Honors Diploma: Yes

CCN: No

Fee: AP Exam Fee

**Prerequisite:** Successful completion in previous music class/es and/or lessons

### **\*AP/Honors Physics 1**

Grade: 10-12 AP Physics 1 is an algebra-based lab intensive introduction to Physics. Principles introduced cover Newton's Laws, forces and gravity, momentum, collisions, work, energy, rotational and circular motion, mechanical waves and sound, and electrostatics.

Credit: 1.0

Credit Type: Science

Pathway: EASA

Honors Diploma: Yes

CCN: No

Fee: AP Exam Fee

**Prerequisite:** Successful completion of Biology and Algebra 1

### **\*AP/Honors Physics 2**

Grade: 11-12 AP Physics 2 students will build on their science skills with extended treatment of the topics of Fluid statics and dynamics, Thermodynamics and gases, Electricity, Magnetism, Optics, Modern Physics (Quantum, Atomic, and Nuclear Physics).

Credit: 1.0

Credit Type: Science

Pathway: EASA

Honors Diploma: Yes

CCN: No

Fee: AP Exam Fee

**Prerequisite:** Successful completion of Physics 1 and Geometry

\*Must take AP exam to earn AP transcript credit.

### **\*AP/Honors Probability & Statistics**

Grade: 11-12 Covers data analysis, regression and correlation, counting and probability, common probability distributions, sampling, confidence intervals, one sample hypothesis testing, confidence intervals, linear regression and correlation.

Credit: 1.0

Credit Type: Math

Pathway: No

Honors Diploma: Yes

CCN: Yes (Chemeketa CC)

CCN Fee: \$30.00 / AP Exam Fee

**Prerequisite:** C or higher in Pre-Calculus

### **\*AP/Honors Psychology**

Grade: 10-12 AP Psychology is the scientific study of the behavior and mental processes of human beings. Students are exposed to psychological facts, principles, and phenomena associated with each subfield of psychology.

Credit: 1.0

Credit Type: Applied Arts/Elective/Pathway

Pathway: Education

Honors Diploma: Yes

CCN: No

Fee: AP Exam Fee

**Prerequisite:** Psychology or Teacher Recommendation

### **\*AP/Honors Studio Art**

Grade: 11-12 Portfolio development emphasizes quality of work, exploration of a particular visual interest or problem, breadth of experience in the formal, technical, and expressive aspects of the student's art. Must submit 24 piece portfolio for AP Credit.

Credit: 0.5

Credit Type: Applied Arts/Elective/Pathway

Pathway: Visual Arts

Honors Diploma: Yes

CCN: No

Fee: AP Exam Fee

**Prerequisite:** Successful completion of Exploratory Art - 2D, Drawing, and Advanced Drawing or Painting

### **\*AP/Honors US Government**

Grade: 11-12 We will study government institutions and political processes and examine policy choices. The institutions and policies of United States Government will be considered in light of historical change, constitutional procedures, and comparative perspectives.

Credit: 1.0

Credit Type: Social Science

Pathway: No

Honors Diploma: Yes

CCN: No

Fee: AP Exam Fee

**Prerequisite:** Teacher Recommendation

### **\*AP/Honors US History**

Grade: 11-12 AP US History emphasizes the development of historical thinking skills and focuses on both early and recent American history. It will expand on the history of the Americas from 1491 to 1607 and from 1980 to the present.

Credit: 1.0

Credit Type: Social Science

Pathway: No

Honors Diploma: Yes

CCN: No

CCN Fee: AP Exam Fee

**Prerequisite:** Teacher Recommendation

### **\*AP/Honors World History**

Grade: 10 AP World History is an in depth study of world history from 8000BCE to the present. It encompasses the history of: Africa, the Americas, Asia, Europe and Oceania, with special focus on historical developments and processes that cross multiple regions.

Credit: 1.0

Credit Type: Social Science

Pathway: No

Honors Diploma: Yes

CCN: No

Fee: AP Exam Fee

**Prerequisite:** Teacher Recommendation

\*Must take AP exam to earn AP transcript credit.

## MHS HONORS COURSES

### Advanced Wellness

Grade: 10-12 Advanced Wellness is an Honors Diploma course. This advanced comprehensive health course will cover all dimensions of Wellness. . Students will be engaged in labs and activities and analyze behaviors and decide what courses of action they will take.

Credit: 0.5

Credit Type: Health

Pathway: No

Honors Diploma: Yes

CCN: No

CCN Fee: No

**Prerequisite:** A or higher in Health 1 or 2

### College Writing (WR121/122)

Grade: 12 College Writing is a dual credit class that emphasizes essay development, critical thinking and basic research skills. The second half of the class focuses on the writing of logical argumentative essays, awareness of different audiences and documentation.

Credit: 1.0

Credit Type: Language Arts

Pathway: No

Honors Diploma: Yes

CCN: Yes (Chemeketa CC)

CCN Fee: \$30.00

**Prerequisite:** B or higher in Intro to Comp & Fiction or AP Lang & Comp

### Contemporary Math

Grade: 11-12 This course surveys the application of mathematics as a problem solving tool in the modern world. Topics include set theory, logic, graph theory, voting theory, consumer math, probability, and statistics.

Credit: 1.0

Credit Type: Math

Pathway: No

Honors Diploma: Yes

CCN: Yes (Chemeketa CC)

CCN Fee: \$30.00

**Prerequisite:** C or higher in Algebra 2

### French 3

Grade: 10-12 Level 3 French students further increase their skills, using tenses not previously taught (for example, the simple future). Students write short essays and give short presentations. Students start working with authentic language sources.

Credit: 1.0

Credit Type: Foreign Language

Pathway: No

Honors Diploma: Yes

CCN: No

Fee: \$0.00

**Prerequisite:** Successful completion of French 2

### French 4

Grade: 10-12 Students continue to master French grammar, learn to be comfortable discussing ideas using several tenses and a variety of structures over a wider range of topics, and they learn how to have informal debates in French.

Credit: 1.0

Credit Type: Foreign Language

Pathway: No

Honors Diploma: Yes

CCN: No

Fee: \$0.00

**Prerequisite:** Successful completion of French 3

### French 5

Grade: 11-12 Fifth year French students

Credit: 1.0

Credit Type: Foreign Language

Pathway: No

Honors Diploma: Yes

CCN: No

Fee: \$0.00

**Prerequisite:** Successful completion of French 4

### German 3

Grade: 11-12 Students will learn to speak, read, write, and understand advanced German. Class activities include skits, projects, and language-related videos. Cultural understanding is deepened.

Credit: 1.0

Credit Type: Foreign Language

Pathway: No

Honors Diploma: Yes

CCN: No

Fee: \$0.00

**Prerequisite:** Successful completion of German 2

### German 4

Grade: 11-12 Students are introduced to authentic German materials including music, literature, and films. Conducted for most part in German. Examination of German history, politics, and cultural affairs. Grammatical skills are re-fined. CLEP preparation may be offered.

Credit: 1.0

Credit Type: Foreign Language

Pathway: No

Honors Diploma: Yes

CCN: No

Fee: \$0.00

**Prerequisite:** Successful completion of German 3

### German 5

Grade: 12 This course consists of a sequence of progressively more difficult readings in German literature, including classics and popular literature. Grammatical skills continue to be refined. CLEP preparation may be offered.

Credit: 1.0

Credit Type: Foreign Language

Pathway: No

Honors Diploma: Yes

CCN: No

Fee: \$0.00

**Prerequisite:** Successful completion of German 4

### Introduction to Composition & Fiction

Grade: 11 This dual-credit course offers juniors an opportunity to take 8 college credits (Writing 115 and English 104) and satisfy the MHS English requirement for their junior year. Students will write college essays and study university-level literature.

Credit: 1.0

Credit Type: Language Arts

Pathway: No

Honors Diploma: Yes

CCN: Yes (Chemeketa CC & Clackamas CC)

CNN Fee: \$30.00

**Prerequisite:** B or higher in Adv. Lang & Lit – 10 or A in Lang & Lit - 10

### Pre-Calculus

Grade: 11-12 Students will learn College Algebra in the first semester and Trigonometry in the second. Covering the algebra of functions, the applications of functions in sequences and series, conic sections, vectors, and parametric equations.

Credit: 1.0

Credit Type: Math

Pathway: No

Honors Diploma: Yes

CCN: Yes (Chemeketa CC)

CNN Fee: \$30.00

**Prerequisite:** C or higher in Algebra 2

### Spanish 3

Grade: 10-12 Students will be provided extensive practice in all four language skills (reading, writing, speaking, and listening). Focus on tenses not previously covered. Classroom interaction by the instructor, the students, and guests will take place in Spanish.

Credit: 1.0

Credit Type: Foreign Language

Pathway: No

Honors Diploma: Yes

CCN: Yes (Chemeketa CC)

CNN Fee: \$30.00

**Prerequisite:** Successful completion of Spanish 2

## Spanish 4

Grade: 11-12 Students will demonstrate emerging fluency to communicate in a variety of topics and time frames. Students will identify the main ideas and some supporting details from authentic and more complicated materials. Spanish will be the language spoken in class.

Credit: 1.0

Credit Type: Foreign Language

Pathway: No

Honors Diploma: Yes

CCN: Yes (Chemeketa CC)

CNN Fee: \$30.00

**Prerequisite:** Successful completion of Spanish 3

## Spanish for Spanish Speakers 2

Grade: 10-12 Spanish for Spanish Speakers 2 is designed to give native or non-native fluent Spanish speakers authentic language in context, provides cultural perspectives, and addresses all four basic language skills.

Credit: 1.0

Credit Type: Foreign Language

Pathway: No

Honors Diploma: Yes

CCN: No

CNN Fee: No

**Prerequisite:** Spanish for Spanish Speakers 1 and Teacher Recommendation

## Spanish for Spanish Speakers 3

Grade: 10-12 Spanish for Spanish Speakers 3 addresses the goals of an advanced placement class. Students should be prepared to demonstrate competency appropriate to their level in listening comprehension, speaking, reading and writing in Spanish.

Credit: 1.0

Credit Type: Foreign Language

Pathway: No

Honors Diploma: Yes

CCN: No

CNN Fee: No

**Prerequisite:** Spanish for Spanish Speakers 2 and Teacher Recommendation

## Trigonometry-EASA

Grade: 10-12 This course extends right angle trigonometry to angles in two and three dimensions. Analytic Trigonometry is developed and students will learn to evaluate systems in Cartesian, Polar, and Parametric formats. A graphing calculator is strongly recommended.

Credit: 1.0

Credit Type: Math

Pathway: No

Honors Diploma: Yes

CCN: Yes (Chemeketa CC)

Fee: \$30.00

**Prerequisite:** C or higher in Algebra 2