

Arlington High School  
 Program of Studies 2019-2020  
 Updates and New Courses

**Policy and General Information Updates**

- Home School Students Policy

**Courses**

**New Courses**

AC3610Z Art and Technology I - Curriculum A	Grades 9, 10, 11, 12	2.5 credits
AC3611Z Art and Technology II - Curriculum A	Grades 9, 10, 11, 12	2.5 credits
AC3600Z Ceramic Sculpture and Pottery I - Curriculum A	Grades 10, 11, 12	2.5 credits
AC3603Z Ceramic Sculpture and Pottery II - Curriculum A	Grades 10, 11, 12	2.5 credits
AC3825Z Drawing I - Curriculum A	Grades *9, 10, 11, 12	2.5 credits
AC3826Z Drawing II - Curriculum A	Grades *9, 10, 11, 12	2.5 credits
AC3602Z Sculptural and Functional Woodworking - Curriculum A	Grades 9, 10, 11, 12	5 credits
AC3613Z Woodworking II - Curriculum A	Grades 10, 11, 12	5 credits
PE7916Z Athletic Training	Grades 11, 12	2.5 credits
SC4009Z Advanced Placement Physics 3	Grades 11, 12	5 credits
SS7804Z AP Human Geography	Grades 10, 11, 12	5 credits
SS7293Z The Economics of Personal Finance	Grades 11, 12	2.5 credits
SS7295Z Introduction to Economics (Semester Course)	Grades 11, 12	2.5 credits
SS7805Z Participation in Government: Public Policy (Non-SUPA)	Grades 10, 11, 12	2.5 credits
SS7390Z Social History Through Sports	Grades 10, 11, 12	2.5 credits
PE7918Z Basic Physical Self Defense (female) 2.5 credits	Grades 11,12	
PE7919Z Basic Physical Self Defense (male)	Grades 11,12	2.5 credits
SC4011Z AP Physics C (Mechanical)	Grades 11,12	5.0 credits

Full Course Descriptions are given below.

**Courses being reactivated or adjusted:**

SS7295Z Intro to Economics	Grades 11, 12	2.5 credits
SS7196Z Economic Ideas & Policy (SUPA)	Grades 11, 12	2.5 credits
MA7424Z Artificial Intelligence (A.I.) with Python	Grades 10, 11, 12	2.5 credits
CS1922Z Interior & Fashion III	Grades 11,12	5 credits

**Courses being removed:**

MA7250Z Fabrication lab - removed 2018-2019	
SC7280Z Introduction to Archaeology - removed 2018-2019	
PA9240Z PEP Band - Curriculum A	
SS7800Z Public Policy and Civic Action	
SS7296Z Economics for Life (Curr A)	

## **Course Descriptions for New Courses**

**AC3610Z Art and Technology I - Curriculum A**                      **Grades 10, 11, 12**                      **2.5 credits**

This is a studio class that explores the intersection of contemporary art and technology. Students will be introduced to tools including microcontrollers, robotics, 3D printers, and the laser cutter to create original art that responds to issues relevant to modern culture and their personal experiences. Art and Tech I will focus on both contemporary and historical artists and art forms, tool training, developing skills, and making meaning through art making. Collaborative projects will be encouraged. Art and Technology I and II can be taken consecutively to fulfill the 5-credit Fine Arts Graduation Requirement.

**AC3611Z Art and Technology II - Curriculum A**                      **Grades 10, 11, 12**                      **2.5 credits**

This is a studio class that explores the intersection of contemporary art and technology. Students will be introduced to tools including microcontrollers, robotics, 3D printers, and the laser cutter to create original art that responds to issues relevant to modern culture and their personal experiences. Art and Tech II will also focus on both contemporary and historical artists and art forms, developing higher level skills, and making meaning through art making. Collaborative projects will be encouraged. Art and Tech II give students the opportunity to apply skills learned in Art and Technology I and to create personal artwork on a more independent basis. Art and Technology I and II can be taken consecutively to fulfill the 5-credit Fine Arts Graduation Requirement. **Prerequisite Art and Technology I**

**AC3600Z Ceramic Sculpture and Pottery II - Curriculum A**      **Grades 10, 11, 12**                      **2.5 credits**

This half-year course introduces students to the use of clay as a sculptural material to create both functional and aesthetic objects.. Through this course students are able to develop their own personal style through hand building and wheel throwing. Students use clay to convey meaning and emotion while creating personalized works of art. A variety of surface treatments and glazing techniques will be taught. Students learn how clay is being used now in the contemporary art world as well as historical approaches in many world cultures. This course fulfills 2.5 credits toward the 5-credit Fine Art Graduation Requirement.

**Suggested Entry Criteria:** "Foundations in Studio Art" (formerly called Art I) or permission of the instructor

**AC3603Z Ceramic Sculpture and Pottery II - Curriculum A**      **Grades 10, 11, 12**                      **2.5 credits**

In this half-year course, students expand their technical skills using clay to create personally meaningful works of art that are functional, sculptural and aesthetic. Students are challenged to develop more sophisticated thinking and making skills to explore the expressive and sculptural possibilities of clay as well as to create more complex useful ceramic vessels. The course includes a variety of hand building and wheel-throwing techniques, pushes the potential for large-scale works, and further explores surface treatments and glazing techniques. Projects and techniques are taught with reference to contemporary and historical art and ceramics from around the world. Previous student experience with clay is preferred. This course fulfills one half of the Fine Arts Graduation Requirement.

**Suggested Entry Criteria:** "Foundations in Studio Art" (or permission of the instructor).

**AC3825Z Drawing I - Curriculum A**                                      **Grades 10, 11, 12**                      **2.5 credits**

Drawing I provides an introduction to the foundational skills of drawing using a wide range of media and contemporary methods. Students develop new ways of seeing and interpreting organic and man-made forms. Unusual perspectives, compositions, and viewpoints will be explored. Throughout the course, students experiment with abstraction, surrealism, conceptual, and representational (realistic) artistic styles. Students develop skills in analyzing and discussing artwork as they study and research a range of artists' drawings, styles, methods, and processes. Students also understand that they can communicate

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<sup>1</sup> Last Updated 1/24/19

personal ideas and express their artistic identities through the act of drawing. Formal issues in drawing such as the use of mark-making, line, space, scale, light and dark and composition are studied. Students maintain an active sketchbook for planning, idea development, and out-of-school assignments.

This course fulfills one half of the Fine Arts Graduation Requirement

**Suggested Entry Criteria:** "Foundations in Studio Art" (\* or permission of the instructor).

**AC3826Z Drawing II - Curriculum A**

**Grades 10, 11, 12      2.5 credits**

In this more advanced drawing course students investigate a broad range of approaches to drawing. Students learn that creative drawing is an art form in its own right. Students explore different ways of using materials and tools to communicate and express personal ideas and interests. Drawing II builds on students' skills in the use of mark-making, line, scale, space, light and dark and composition in styles that emphasize both realism and abstraction and in both contemporary and historical contexts. Students discover that "drawing" can include all kinds of media including dry and liquid media, collage, and even three-dimensional drawing materials. Students maintain an active sketchbook for planning, idea development, and out-of-school assignments.

This course fulfills one half of the Fine Arts Graduation Requirement

**Suggested Entry Criteria:** "Foundations in Studio Art" (\* or permission of the instructor).

**AC3602Z Sculptural and Functional Woodworking - Curriculum A Grades 9, 10, 11, 12      5 credits**

Sculptural and Functional Woodworking is a yearlong class that cultivates students' skills related to designing and fabricating both functional and sculptural structures from wood. This class explores the relationship between functional and non-functional artworks through discussion and making. Students are introduced to relevant tools, skills, and projects that are presented in an open-ended way. This approach encourages creative problem solving and requires students to design and build one-of-a-kind objects. The projects are also presented in the context relevant to professional fields including carpentry, architecture, sculpture, and industrial design. **This course fulfills the 5-credit Fine Arts Graduation Requirement.**

**(Formerly called Wood Tech)**

**AC3613Z Woodworking II - Curriculum A**

**Grades 10, 11, 12      5 credits**

Woodworking II is a yearlong class for students who have completed Woodworking I and are interested in further developing their skills. The assignments will include problem solving and completing building projects in the AHS community as well as creating original work. Permission of the instructor is required.

**Prerequisite: Wood Tech.**

**PE7916Z Athletic Training**

**Grades 11, 12      2.5 credits**

This course provides high school students with a general overview of athletic training and sports medicine. It includes introductory information about the AT's scope of practice: injury prevention, treatment, rehabilitation, emergency injury management and administrative functions. This course is intended to help students gain an understanding of sports medicine, various associated disciplines and the role they play in the physically active community. This course is led by a certified and licensed Athletic Trainer.

**PE7918Z Basic Physical Self Defense (for women)**

**Grades 11,12      2.5 credits**

This course is designed for students who would like to learn self defense and conflict reduction skills appropriate for those identifying as female. The course is led by a certified Rape Aggression Defense (R.A.D.) Instructor and pairs up with the Arlington Police Department for instructional lessons. The Cornerstone of R.A.D. Systems, this app course has its foundations in education and awareness. The course includes lecture, discussion and self-defense techniques suitable for women of all ages and abilities.

**PE7919Z Basic Physical Self Defense (for men)**

**Grades 11,12      2.5 credits**

This course is designed for students who would like to learn self defense and conflict reduction skills

appropriate for those identifying as male . The course is led by a certified Rape Aggression Defense (R.A.D.) Instructor and pairs up with the Arlington Police Department for instructional lessons. The Cornerstone of R.A.D. Systems, this app course has its foundations in education and awareness. The course includes lecture, discussion and self-defense techniques suitable for women of all ages and abilities.

**SC4009Z AP Physics C (Mechanics)**

**Grades 11, 12**

**5 credits**

Physics 3: Mechanics is designed to be the equivalent of a college, calculus based physics course in mechanics. It adheres to the requirements of the College Board AP C Mechanics curriculum. It will provide instruction in each of the following six content areas: kinematics; Newton's laws of motion; work, energy and power; systems of particles and linear momentum; circular motion and rotation; and oscillations and gravitation – and appropriate laboratory experiences. Analysis of problems as well as the AP Physics C exam will expect the use of calculus as a fundamental tool, and therefore AP Physics C requires a sound knowledge of Calculus by the student.

**Suggested Entry Criteria:** Successful completion or knowledge of fundamental Calculus skills and general excellence in prior science and math classes. Teacher and Science Director approval is required. (For Grade 11 or 12, may enroll with recommendation of the math and science teacher, and permission of the Science Director are required. It will be available only if enrollment minimums are reached and if staffing is available.)

**SS7804Z AP Human Geography**

**Grades 10, 11, 12**

**5 credits**

The AP Human Geography course is equivalent to an introductory college-level course in human geography. The course introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine socio economic organization and its environmental consequences. They also learn about the methods and tools geographers use in their research and applications. The curriculum reflects the goals of the National Geography Standards (2012).

**NOTE: Students choosing to take this AP level course will be responsible for completing a summer assignment and will be assessed within the first week of school.**

**SS7293Z The Economics of Personal Finance**

**Grades 11, 12**

**2.5 credits**

The world of personal finance can be overwhelming. From credit cards to mortgages and more, Personal Finance is here to explain the essential information you need to know to make financially smart decisions for the rest of your life. This Introduction to Personal Finance focuses on the foundations of financial planning—such as setting short-term and long-term financial goals—and then tackles essential aspects of consumer personal finance, including record keeping, budgeting, banking, saving, borrowing, investing, insurance, taxes, and retirement planning. By the end, you will feel more confident about making informed and reasoned financial choices with regard to your professional and personal lives. Your bank account will thank you later. This is a college course offered on-site at Arlington High School through a partnership with Syracuse University. All students taking the one semester class will receive a grade at the AP weight for the course on their Arlington High transcript. Additionally, students may opt to pay a nominal fee of \$336 for three SU credits. Students on free/reduced lunches can take the course for credit at a greatly reduced fee (See History Dept Head Denny Conklin). Typically, colleges will accept the Syracuse credits with a grade for transfer credit.

*\*Students have the option of earning Honors Credit through more challenging research and project work*

**SS7805Z Participation in Government: Public Policy (Non-SUPA) Grades 10, 11, 12**

**2.5 credits**

**(Semester course)**

This course uses a collaborative, hands-on approach to give students a better understanding of how effective public policy is created. At the beginning of the semester, students will identify a social problem at the town or school level and work in groups to come up with a proposed public policy that deals with that problem. They will forecast the impact of that policy, analyze the political factors affecting the policy, and develop strategies to implement the proposed public policy. While studying their particular public

policy issue, students will enhance basic research, communication, and decision-making skills and will develop a range of applied social science skills that will help them to make more informed choices as citizens, as workers, and as consumers.

*\*Students have the option of earning Honors Credit through more challenging research and project work.*

**SS7390Z Social History Through Sports  
(Semester course)**

**Grades 10, 11, 12**

**2.5 credits**

Students will be examine historical social issues such as race, gender, political unrest, war, and religion through the lens of sports. The course will utilize a case study approach to give students a detailed sense of the historical time period, the social issue, its relationship to a specific sport, and the legacy of the social issue/sport the continues through today. Possible topics include: breaking the color barrier (baseball), religious rights and war (boxing), racial bias & the judicial system (football), gender inequality (tennis), labor unions and strikes (baseball), and human rights (cricket and rugby). By the end of the course, students will see sports beyond fandom, competition, and athletic skill; rather they will understand how sports have functioned as both a reflection of social issues, but also a vehicle to move them forward.

*\* Students have the option of earning Honors Credit through more challenging research and project work.*

Courses being Updated:

**MA7424Z Artificial Intelligence with Python - Honors**

**Grades 10-12**

**2.5 credits**

Learn one of the computer languages voted most fun to learn and use. It's also one of the languages that many college computer science departments are using in their introductory course. We will learn the basics of this scripting language, explore artificial intelligence and have time to explore other high level concepts as driven by student projects. Students will work independently and in groups to create their projects. Computers and online tools will be provided for all students, but the environment that we will using is available for use at home as well.

**Suggested Entry Criteria:** Open to students that either complete Computer Science Principles or have experience with the basics of computer programming

**CS1922Z Interior & Fashion III**

**Grades 11,12**

**5 credits**

Students will apply more advanced design techniques, building upon the skills they learned in Interior & Fashion I and II. They will create a portfolio, designing a fashion line which will include inspirational research, a mood board, sketching, and selecting fabrics. Students will explore more advanced sewing techniques through their independent projects, as well as study various careers related to fashion, merchandising, and design.

**Entry Criteria:** Successful completion of CS1920Z Interior and Fashion Design I, CS2921Z Interior and Fashion Design II, and Interior Fashion and Design teacher recommendation.

**SS7295Z Introduction to Economics (Semester Course)**

**Grades 11, 12**

**2.5 credits**

Students will engage in a study of basic micro and macro economic principles to enhance their understanding of capitalism to help them become strong citizens and make astute financial decisions. In particular they will examine the powers of the Federal Reserve and federal government as well as scrutinize the economic theories employed by Democratic and the Republican parties. Then the students will create a business to enhance their understanding of microeconomic concepts. The class concludes with an examination of the role of the consumer; here students learn personal finance life skills such as making a budget, learning wise shopping strategies, learning how to achieve a strong credit score, how to avoid credit card debt, and how to save for retirement.

**Policies**

**Homeschool Students at AHS**

Homeschool students enrolled in AHS classes or programs are expected to remain in good standing, abide by the code of conduct and AHS attendance policies. Specifically, this means that the student will be subject to the following expectations.

- The student will abide by the Arlington High School discipline code.
- The student will attend class every day on time in accordance with the attendance policy.
- The student will not remain on school grounds during their unscheduled time
- The student will receive an AHS transcript for grades and credits earned.

Should the conditions not be followed, Administration may revisit the student's participation in classes at AHS. If the student is eligible for special education any change in services is subject to state and federal laws governing students eligible for special education.