

Class	Prereqs and helpful information from the teacher
English 9	<p>English 9: Students read classic and contemporary literature related to the theme of “identity”. The standard level devotes more time than the Intensified level on skill development in reading, writing, and speaking. Collaborative skills are developed through group projects.</p> <ul style="list-style-type: none"> * Small and whole-class discussions about literature and nonfiction reading * Multi-paragraph writing in different genres (narrative, expository, persuasive) * Homework requires an average of one hour between classes of reading / writing assignments.
English 9 Int	<p>The intensified version of the class writes more, reads more, and goes further with our ideas than the standard class. Students read classic and contemporary literature related to the theme of “identity”. The Intensified level requires extensive reading, increase writing, intensive grammar, advanced vocabulary, independent management of project- based learning steps, and high-level performance beyond that required in the Standard sections. It also moves more quickly. Students are expected to read 50-60 pages between every class. Students are expected to read FULL novels in a matter of weeks.</p> <p>Expectations:</p> <ul style="list-style-type: none"> * Students are expected to independently manage their workload and submit assignments based on Canvas due dates * Homework requires an average of one hour between classes of reading / writing assignments. * Teacher recommendations are based on high performance in previous English classes.
World History	<p>In WHII Standard the curriculum is covered in a rigorous manner with students expected to collaborate on assignments and meet daily benchmark requirements. The writing component is standard to what a typical 9th grade student should be able to cover. Students are expected to delve deep into material in order to maximize grade value.</p>
World History Intensified	<p>In WHII Intensified the curriculum is covered in the same rigorous manner as Standard but the pace is quicker and the assignments are more detailed. The writing component is above average for what an incoming 9th grade student should be expected to write and the depth of the project is extensive. Expectations are much higher for the Intensified class.</p>
Biology	<p>Do you enjoy working with others, sharing ideas, and solving problems as a team? Biology is all about collaboration and communication. In this hands-on class, you'll dive into biology by tackling real-world challenges and creating amazing projects with your classmates.</p> <p>To succeed, you'll need to be ready to work as a team, share your thoughts, listen to others, and think creatively. You'll research topics, teach yourself and your peers, and design cool projects that show what you've learned. Plus, at the end of the course, you'll take the Biology SOL, which is a graduation requirement. If you love working with others, being creative, and learning by doing, this is the class for you!</p>
Biology Intensified	<p>This course prepares students for college-level biology, covering topics like molecular biology, genetics, and ecology. It emphasizes laboratory techniques, experimentation, and analysis. Students must design and conduct an independent project, write a formal science paper, and participate in the school science fair. They receive support to complete their project, but it's important to follow the timeline to avoid falling behind. All students will take a final exam and the state SOL.</p> <p>Intensified biology is faster-paced and requires more independent work than standard biology. In addition to science projects, students will engage in 1-2 project-based learning (PBL) projects throughout the year. Students should study for tests, as many 9th graders find biology tests challenging compared to previous years. While there is group work for labs, students are generally expected to complete the analysis on their own.</p>

Class	Prereqs and helpful information from the teacher
Algebra (Sem 1)/ Geometry (Sem 2)	<p>This course takes up 2 blocks (you lose an elective class)</p> <p>This fast-paced course covers the full Algebra 1 curriculum in half the time. Ideal for motivated students, it features:</p> <ul style="list-style-type: none"> * Flipped Classroom: Learn at home, practice in class. * Self-Paced Learning: Progress at your own speed. * Assessment-Based Grading: Grades based on quizzes and tests, not homework. * Practice for Mastery: Complete exercises to ensure understanding. * Regular Attendance: Vital for success. * Good Number Sense: Strong skills in integer operations without a calculator. * By the end, students will be well-prepared for higher-level math courses and standardized tests. <p>Semester 2: You will learn Geometry with a focus on project based learning.</p>
Geometry	<p>Prereq: Algebra 1 In Geometry, be ready to use algebraic rules and apply it to geometric concepts.</p>
Geometry Intensified	<p>Prereq: B in Algebra 1 In Intensified we have an increase rigor, pacing and we prioritize proofs with no support.</p>
Algebra II	<p>Prereq; Geometry</p> <p>Best for students who have a strong foundation of Algebra 1 and Geometry. Students should prepare to have a Whole class lesson, followed by an activity for practice, finishing with Homework each night.</p>
Algebra II/Trig Intensified	<p>Prereq: B in Geometry Intensified or Prerequisite: Grade "B" or better in Geometry, Intensified or "B" in both Algebra I and Geometry</p> <p>This is taught as a "flipped classroom" where students are expected to watch videos of the lesson at home, and then come to class the following day prepared to practice what they learned the night before.</p>
Engineering I <i>(required for all 9th graders)</i>	<p>Introduction to the engineering design process, tailored to spark curiosity and build critical thinking skills among freshmen at Arlington Tech. Through hands-on, project-based learning, students engage in real-world challenges such as creating and launching 3D-printed rockets, developing Bluetooth-controlled vehicles, and building mousetrap cars. They master 3D modeling software and use tools like 3D printers and laser cutters. Additionally, students study data science and analytics to evaluate performance metrics and identify the best designs and outcomes. This class is good for students who are curious problem-solvers who value collaboration, are detail-oriented, and embrace challenges with creativity and persistence. Students may struggle in this class if they prefer traditional, lecture-based instruction over hands-on learning or find it challenging to embrace open-ended problem-solving (where answers are not always immediately clear), and are relectuant to collaborate or adapt to constructive feedback.</p>
Art I	<p>Best for kids who enjoy using their hands and want to explore their own creativity. We do traditional painting and drawing projects but also do fiber arts (embroidery, felting), paper building and folding (tunnel books, origami sculptures), and create work for an end of year gallery show. Lots of flexibility and choice are given in this class but don't expect to get an A just by showing up.</p>
Digital Photography I	<p>A rigorous course with most projects needing to be completed outside of class time. You'll learn all about how cameras work, the creative choices you can make when creating an image and why visuals are so important in our lives. Expect technical and abstract assignments with written reflections accompanying your images. Personal responsibility is a must- you'll be in charge of an \$850 camera for the entire school year (you break it/loose it, you pay for it).</p>

Class	Prereqs and helpful information from the teacher
Aviation I	This introductory ground school course focuses on the foundational principles of flight training, including aerodynamics, aircraft systems, flight instruments, and aeronautical decision-making. Students also explore airport operations, airspace, navigation, and basic weather theory. Through engaging lessons and simulator instruction, students build a solid base of knowledge and skills, starting their journey toward becoming a pilot. No prior experience is required—just a passion for aviation and a readiness to learn!
UAS Drones	This course prepares students to pilot drones under the FAA Part 107 guidelines for small unmanned aircraft systems (sUAS) and to take the FAA Part 107 certification exam. Students gain a comprehensive understanding of the national airspace system, FAA regulations, weather monitoring, drone performance, and flight operation logistics. Through hands-on training and piloting, students develop the technical and administrative skills necessary for safe and effective drone operations, opening pathways to exciting careers in a growing industry. No prior experience is required!
Materials & Processes Technology	The science and engineering of solid materials and how to manufacture and produce the materials. It is an extension of chemistry with a focus on how and why materials are selected for its intended purpose. This elective is great for students who love science, especially Chemistry.
Auto Collision I/ DE Auto Collision I* * 2.25 gpa requirement	Have you ever wondered how cars are built or what happens to them after they are crashed? In this course you will learn about the construction of vehicles, how to repair them after an accident and how to paint them. This is a 3 year program with the opportunity to earn I-CAR certifications.
Space Force JROTC	In Space Force JROTC, the class lessons focus on Aerospace (Col Dierlam) and Leadership (MSgt Victor) lessons. Cadets are required to wear the Space Force JROTC all day once a week and to meet the Space Force grooming standards to include a professional military hair style. Cadets are expected to attend 4 outside of class activities during the school year. To become a cadet leader cadets must attend some of our afterschool activities after school on Tuesday, Wednesday, and Thursday. However, a student can earn an A grade in the class by accomplishing the class lessons and wearing the uniform properly each week. To become the cadet squadron commander, the cadet must be able to attend our afterschool activities on a regular basis.
Journalism Yearbook	Students produce the yearbook. Over the course of the year, students work to fill the book and meet the publishing deadline.
Journalism Newspaper	This course is an English elective that develops skills in publishing print and digital media. Students practice journalistic writing and interviewing, learn about ethics and laws in media, and plan collaborative projects. Students are responsible for the production of the ACC Chronicle website, on which we publish content each week, and four print editions, published each quarter. Expectations: Students should be ready to pitch article ideas, give and receive feedback, and publish articles online every one to two weeks Leadership opportunities include editor-in-chief, creative manager, lead editor, lead publisher Grades are based use of class time, collaboration, and number of publications per quarter
Health Science	Curious about a career in healthcare? This class is your starting point! Explore exciting careers like EMT, pharmacy tech, or physical therapy aide while learning the basics of medical terminology, anatomy, and emergency care. You'll also pick up real-world skills like safety, professionalism, and job-seeking tips to help launch your future in healthcare. Ready to take the first step? This is the class for you!

Class	Prereqs and helpful information from the teacher
<p>DE Web Page Design & Multimedia * 2.25 gpa requirement</p>	<p>You'll build a beautiful personal portfolio website. Along the way you'll become a wiz at using your computer, learn some design concepts, how the internet works, and a bit about cybersecurity. At the end of this class, you'll have a good idea of what you want to study next - programming, cybersecurity, and/or graphic design. We highly recommend this course for 9th graders In order to take this college class (as it's only 1 of 2 DE classes 9th graders can take).</p>
<p>DE TV Production * 3.25 gpa requirement</p>	<p>"Dual-enrolled with NOVA- PHT 130- Video 1- Earn 3 college credits. Students stretch themselves through enjoyable, creative, engaging projects. They create short films, commercials, green screen projects, documentaries, how-to videos, PSA's and more. Students will utilize the State of the Art Professional Studio, Lab and Equipment and have access to our state of the art television studio with HD equipment that mirrors industry standards. Students will also use professional cameras and edit footage in our high-powered computer lab, and participate in SkillsUSA and other Video Contests. All students join SkillsUSA which is a student organization that holds contests at the local, state and national levels. We are state champions and former national champions!"</p>
<p>DE Music Appreciation * 3.25 gpa requirement</p>	<p>Essential elements of music, rhythm, tempo, instruments, music history, music theory, very light lift, projects, silent film fest, how music impacts film. Explores the language of music through an introduction to basic elements, forms, styles across time.</p>