

# AHS ELECTIVES/PATHWAYS

## • **Advanced Accounting**

A deep dive into the language of Business, Accounting. Not only will you understand the Accounting process, but also more advanced areas of accounting. You will also have the opportunity to put the practices into place with various scenarios.

## **Early Childhood Education**

The Early Childhood Education classes are commonly referred to as the 'baby class' by students. It has been expanded to include learning from conception to age 12 by students who have an interest in working with or educating children. This class would be ideal for future teachers, social workers, nurses, doctors, and parents. Completion of the pathway courses and test may make you eligible for college credit in the state of Georgia! And of course, you get to take home those famous plastic baby simulators!

## • **Engineering**

Engineering is made up of the following 3 classes:

### Foundations of Engineering

Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects like designing a new toy or improving an existing product. This class focuses very heavily on Computer Aided Design.

### Engineering Concepts

Students explore a broad range of engineering topics including mechanisms, strength of structure and materials, and automation, and then they apply what they know to take on challenges like designing a self-powered car. This class has a big emphasis on VEX Robotics and introductory programming.

### Engineering Applications

Students discover and explore manufacturing processes, product design, robotics, and automation, and then they apply what they have learned to design solutions for real-world manufacturing problems. This is the class where you get to use all the expensive equipment!

## **Finance Business Accounting**

(1st class = Intro to Business Technology)

Finance & Business Accounting: Dive into the world of business and your personal finances! You will learn all about the business world and how it operates, including the use of real-life examples. You will learn to manage your personal finances, as well as life applicable skills such as how loans work, what is credit, and how to manage your personal finances. Finally, you will learn the language of Business, which is Accounting.

## **Finance Banking** (1st class = Intro to Business Technology)

The financial services pathway will present students with various real-life skills that you can apply throughout your life. For example, employability skills, Microsoft Office skills, personal banking skills, personal investment skills, and introduction to insurance.

## **Forestry/Wildlife** (1st class = Basic Agriculture)

### **Forestry/Wildlife Systems Pathway**

Those working in the forestry and natural resources field conserve and manage our forest and natural resources. Those working in this field regularly work with landowners, loggers, forestry technicians and aides, farmers, ranchers, government officials, special interest groups, and the general public. Anyone interested in this field should enjoy working outdoors. The federal, state, and local governments employ many forestry and natural resources workers.

## **Horticulture/Plant Science Tech** (1st class = Basic Agriculture)

### **Horticulture/Plant Science Pathway**

This course is designed as an introduction for the Horticulture/Plant Science Pathway Program of Study. The course introduces the major concepts of plant and horticulture science. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities. Growing plants in the greenhouse and for food.

## **Veterinary Science** (1st class = Basic Agriculture)

### **Companion Animal Systems Pathway**

Companion animals are a large part of the animal care industry. Veterinary staff care for the well-being of animals by performing routine tasks under the supervision of veterinarians, scientists, and veterinary technologists and

technicians. Animal care and service workers feed, water, groom, bathe, and exercise pets and other non-farm animals. Veterinary medicine has advanced considerably, and many of the veterinary services offered today are comparable to health care for humans, including cancer treatments and kidney transplants.

## **IT Computer Programming & IT Computer Science**

(1st class = Intro to Digital Technology)

Computer Science & Computer Programming: These two pathways give students the opportunity to learn more about computer programming. Introduction to Digital Technology is the first class in both pathways. AP Computer Science is the second class in both. The pathways contain two different AP courses, where college credit can be earned. Each pathway includes courses that can count as a math, science, or foreign language course. They also contain courses that count as Hope Rigor courses. Currently at AHS you complete the Computer Science Pathway before completing the Computer Programming pathway.

## **IT Web/Digital Design** (1st class = Intro to Digital Technology)

Intro to Digital Technology is also the first class in the Web and Digital Design Pathway. In Digital Design, students will use Photoshop to create and manipulate graphics and photos. We also create animations and edit videos. Web Design is the 3rd level course and we create Web Sites :) We use different methods to create a variety of different sites. Also in the 3rd level, you will earn the Employability Skills Seal by completing a resume and mock job interview.

## **Law Enforcement Services** (1st class = Intro to Law & Public Safety)

The Law Enforcement Services Career Pathway provides a sequence of courses designed to guide students through high school and on to career related post-secondary education or entry level career occupations. Students will begin with the Introduction to Law & Public Safety class, where they will explore emergency and disaster planning and response along with initial career planning and the cooperative role of various public safety agencies.

In their second year, students will learn about the career and day-to-day responsibilities of the law enforcement patrol officer as well as other duties associated with the local police and sheriff's departments. The second part of the course will provide students with an introduction to our laws and legal system, including constitutional law, criminal law and the criminal justice process.

Finally, in their third year, students who wish to complete the Law Enforcement Services Career Pathway will enroll in the Criminal Investigations class. Students will learn how to process a crime scene, collect and secure evidence and explore selected cold cases to broaden their critical thinking and problem-solving skills.

## **Marketing & Management** (1st class = Int. Marketing & Business)

The Marketing Management pathway introduces students to the various career options in the marketing cluster. It is also tailored for those who are interested in opening their own business. Students who take courses in the marketing pathway have the opportunity to work in our school store to start gaining work experience and building their resumes. They are included in any of the decisions made regarding the store and are able to get real-world, hands-on experience of running a business.

## **Medical Therapeutic Services** (1st class = Intro to Healthcare)

Introduction to Healthcare Science is the prerequisite for all other Healthcare Science pathway courses. In this course, students receive initial exposure to many Healthcare careers, but also employability, communication, and technology skills that will be necessary in the healthcare industry. Students will learn concepts of human growth and development, interaction with patients and family members, health, wellness, and preventative care are evaluated, as well as the legal, ethical responsibilities of today's healthcare provider. Fundamental healthcare skills development is initiated. This includes microbiology, basic life support and first aid.

## **Military** (1st class = JROTC 1)

JROTC is a one stop shop course which includes opportunities to challenge yourself both mentally and physically. You will receive classroom instruction and laboratory instruction in managerial skills, physical/mental fitness, along with traditions and purpose of Army JROTC. The mission is to motivate young people to be better citizens. It contains the development of basic leadership skills to include leadership principles, values and attributes. JROTC has a whole host of extra curricular activities to include community service projects, the Raider team (our athletic team), Color Guard, and Drill Rifle Exhibition team. The teams compete with other JROTC programs all around the State of Georgia. Successful completion of at least three units of credit in the Army JROTC program will also give students the health and PE credit needed to graduate from high school, help assist students for advanced placement in a college ROTC program, and automatically provide promotion for enlistments from private to private first class.

## **Nutrition & Food Science** (1st class = Food Nutrition and Wellness)

Nutrition and Food Science: In levels 1 and 2 we cover the basics of nutrition and then proceed with digestion and nutrition through the lifespan. We go over kitchen utensils and basics and pre covid we got into the kitchen and cooked. Post covid we have utilized demos for health and safety. In level 3, we look at the chemical makeup of food and the science behind it. All the while getting into the kitchen when possible (pre covid).

## **Teaching as a Profession** (1st class = Examining Teaching)

The Teaching as a Profession pathway prepares students for future positions in the field of education. Teaching as a Profession students learn what it takes to be a teacher and experience the rewards of being an educator too. It is a two year pathway. During the second year, you get to complete an internship at an elementary school to experience what it feels like to be a teacher!

## **Transportation/Logistics Auto** (1st class = Auto Tech 1)

You will learn the basic maintenance like how to check and change your oil, how to check the air pressure in your tire, how to rotate your tire, how to change your brakes and rotors, and several other do it yourself car maintenance

( both auto-tech and collision you could advance to levels 2 and 3, completing the pathway.)

## **Collision and Repair Auto** (1st class = Intro to collision repair)

You will learn the basic repair methods of fixing or repairing wrecked vehicles. You will learn the protocols of working with insurance companies, body shops, and other parties involved.

( both auto-tech and collision you could advance to levels 2 and 3, completing the pathway.)

## **Chorus**

We have a thriving choral program even through Covid. All freshman women will be in the freshman class (men in the men's class which is not all freshman) HOWEVER, students that are serious choral students may audition for one of the mastery choirs that travel and represent the community IF they are willing to take two sections. Any student that wishes to take two classes may sign up for advanced women as well without an audition. I welcome and encourage this.

## **Band**

We are already meeting with band students from our primary feeders on Google Meet and I have set-up a Google Classroom for them. Band students should just know to contact us with questions. They will all sign up for Concert Band and then we will place them based on auditions. Chorus students should sign up for either Beginning Women's Chorus or Men's Chorus. Chorus and Band students should also know that they will be part of the group that sees the new Performing Arts Center and gets to perform in it.

# **Art**

## **Course Description:**

**The Alexander Visual Arts Program consists of Drawing, Painting, Graphic Design, and Visual Art / Comprehensive. These classes will introduce art history, art criticism, aesthetic judgment and studio production. The classes emphasize the ability to understand and use elements of art and principles of design through multiple solutions to visual arts problems using variety of media, processes, and visual resources. Master artworks are explored for historical and cultural significance. Art activities will emphasize student participation rather than individual ability levels.**

**Visual Comp I (1st class you must take), II, III, & IV**

**Drawing I & II**

**Painting I & II**

**Drawing & Painting I**

**AP Art Studio 2-D**

**AP Drawing**

**If someone is interested in guitar, they just need to know that they have to provide their own acoustic guitar. It is open to anyone who wants to work on guitar no matter ability level. Music Technology is open to any student who wants to learn more about how to use technology to create and arrange music. Music Theory classes are not available to 9th graders but are available for 10th-12th grade students who participate in a band or chorus class.**