

Florin High School

Telephone Number: (916) 689-8600

www.egusd.net/florinhigh

Agriculture Technology Academy

The Agriculture Technology Academy (Ag Tech) provides a rigorous four-year program that allows students to gain skill proficiency in diverse agricultural fields while enhancing their college and career readiness. Utilizing state-of-the-art instructional and laboratory facilities, Ag Tech provides advanced curriculum for student skill development in an industry-based and equipped setting.

Ag Tech is a pre-collegiate, district-certified academy that has a four-year sequenced curriculum integrating math, English, social science, and agriculture science. Students are well prepared for the rigors of university academic expectations as well as the world of work.

Today's agriculture is more than you ever imagined! Through hands-on application of learning, students within the Ag Tech Academy are mastering skills that will prepare them to enter college and/or careers in technically advanced fields. The Ag Tech program components include:

- Instructor/peer support as part of a learning community
- College and career readiness activities
- Hands-on learning emphasis
- Leadership, communicative, and cooperative skill development
- Diverse laboratory and field experiences
- Service learning project involvement
- Innovative technology participation
- Mentorships and internships

The Ag Tech Academy offers exciting opportunities for students in the broad and technically challenging fields of agriscience, environmental horticulture, agribusiness and agricultural engineering/manufacturing. Core academic academy courses in English, social science, mathematics, and agriscience fulfill college preparatory requirements while engaging students in interdisciplinary projects.

Students enrolled in this academy must complete a sequence of Career Technical Education courses noted below as well as their core academic courses (e.g., English, mathematics, science, social science, etc.) as one cohort. The courses required for this academy are described below.

FLORIN HIGH SCHOOL
Agriculture Technology Academy (continued)

Ag TECH Academy Programs of Study

Industry Sector: Agriculture and Natural Resources
Pathway: Agricultural Business

Grade	Academic 1	Academic 2	Academic 3	CTE
9	English	Geography	Math I	Applied General Science
10	English	World History	Math II	Ag Biology
11	English	US History	Math III (or Algebra II)	Animal Anatomy and Physiology
12	English	Government	Statistics	Ag Economics

The CTE courses required for this academy are described below.

Course	Class Restrictions	Credits	Description
Ag Tech Applied General Science “a-g”/”g” approved Course #12206	Freshman	10	This course explores earth science, chemistry, geography, meteorology, astronomy, oceanography, chemistry, forces, work, energy, waves, alternate energy sources and nuclear energy as it relates to agriculture. Students are expected to function in both lab and lecture situations. Students will be exposed to the FFA supervised agricultural experience programs and careers. Homework consisting of reading, writing lab reports and presentations (PowerPoint) will be assigned. This course is part of a series of courses to prepare the student for college level entry into the various disciplines of agricultural science. Cored academic academy courses in English, social science, mathematics and agriscience fulfill college preparatory requirements while engaging students in interdisciplinary projects. This course meets the physical science and technology proficiency graduation requirement (at Florin High School only) and is a UC and CSU elective science course. Adopted curricular materials: <i>Earth Science</i> , Pearson
Ag Tech Agricultural Biology “a-g”/”d” or “g” approved NCAA approved Course #12201	Sophomore	10	This is a one-year laboratory course designed for students with interests in the following areas: the molecular and cellular aspects of life, the chemical and structural basis of life, energetics of life, growth and reproduction in plants and animals, evolution of modern plants and domestic livestock species, plant and animal genetics, taxonomy of plants, animals, humans and the environment, nutrition in animals, health and diseases in animals and the similarities between animals and humans. This course includes extensive laboratory components to connect the concepts of life science with applied science applications, General Science principles, and other curricular areas, including written and oral reporting skills. Students will be exposed to the FFA supervised agricultural experience programs and careers in Agriculture. Cored academic academy courses in English, social science, mathematics and agriscience fulfill college preparatory requirements while engaging students in interdisciplinary projects. This course meets Life Science graduation and UC and CSU lab science requirement. <i>Note:</i> Incoming freshman students who have successfully completed Honors Science 8 are required to complete Chemistry and Physics in order to fulfill their science contract if they do not enroll in General Science as a freshman. Adopted curricular materials: <i>Biology, Dynamics of Life</i> , Glencoe

FLORIN HIGH SCHOOL
Agriculture Technology Academy (continued)

Course	Class Restrictions	Credits	Description
Ag Tech Animal Anatomy and Physiology of Animals and Plants “a-g”/”d” or “g” approved Course #12202	Junior	10	This course provides information, activities, and skills in the areas of scientific method, classification systems, mammalian production, production management, health care, anatomy, physiology, reproduction, nutrition, mitosis, meiosis, respiration and genetics. Emphasis is placed on mammals that are most important to human culture as we know it. Homework varies by unit, but averages about one assignment per week. Tests will be given regularly and students will be expected to participate in assignments, class discussion and other structured events. Students will be exposed to the FFA supervised agricultural experience programs and careers in Agriculture. Students will be expected to complete individual projects and long-term assignments. Core academic academy courses in English, social science, mathematics and agriscience fulfill college preparatory requirements while engaging students in interdisciplinary projects. This course meets the District’s life science requirement and the UC and CSU lab science requirement. <u>Adopted curricular materials:</u> <i>Agriscience: Fundamentals & Applications, Delmar</i>
Ag Tech Economics in Agriculture “a-g”/”g” approved Course #12215	Senior	10	This agri-business course is designed to introduce students to the basic principles of all economic systems with special emphasis on the areas of individual student decision making and world economy as they relate to agriculture. Other topics to be covered will be free enterprise business types, government and law in the economy, credit and taxes. Students will be expected to conduct an ownership or non-ownership experience program dealing with agriculture or a related field. This course is designed as part of a series of courses to prepare the student for college level entry into the various disciplines of agricultural science. Students will be exposed to the FFA supervised agricultural experience programs and careers in Agriculture Business. Cored academic academy courses in English, social science, mathematics and agriscience fulfill college preparatory requirements while engaging students in interdisciplinary projects. This course meets Economics graduation requirement and the UC and CSU elective requirement. <u>Adopted curricular materials:</u> <i>Economics, Principles in Action, Pearson</i>
Ag Tech Ranch Animal Science Course #16202	Junior Senior	5	This course will provide the student with principles in Animal Science focusing on the livestock industry, its history, and the evaluation and selection of different breeds. Particular attention will be given to the production of livestock as it relates to livestock selection, breeding, anatomy, breed characteristics, feeding, health care, and the marketing of animals. This course in Animal Science is designed for students who require competency in all phases of livestock production, maintenance, and management. Students will have the opportunity to incorporate an FFA, 4-H, or a domestic livestock project with the hands-on/laboratory portion of the course. <u>Adopted curricular materials:</u> No textbook assigned.

Related electives that a student in the Ag Tech Academy might take include:

- Elements and Principles of Floral Design
- Design and Implementation
- Manufacturing Technology-Metals
- Floral Design and Merchandising

***For a description of academic courses and the electives identified above, see Section 1.
 Please contact the school should you need further information.***

FLORIN HIGH SCHOOL
Automotive Technology Career Pathway

This career pathway provides students with basic automotive shop safety, tool recognition, introduction to automotive repair, technology core, exploring automotive technology and automotive technology design. Other topics include the history, development, manufacturing and prototyping of the automobile and its impact on the world. This course also provides students with entry-level training in automotive systems including brakes, engine performance, electrical/electronic systems and suspension/steering.

Course	Credits	Description
Automotive Technology I Course #12306	10	<p>This course provides basic shop safety, tool recognition, introduction to automotive repair, technology core, exploring automotive technology and automotive technology design. Basic systems and systems functions are covered as an introduction to auto II and auto III.</p> <p>Adopted curricular materials: No textbook assigned.</p>
Automotive Technology II Course #12307	10	<p>This course extends study with more in-depth areas of the automotive systems. These areas include: brakes, electrical system, steering and suspension, introduction to fabrication and body and collision repair and automotive fundamentals. Students will be given hands on projects to diagnose and repair.</p> <p>Adopted curricular materials: No textbook assigned.</p>
Automotive Technology III Course #12308	10	<p>This course provides advanced automotive and diagnostics, fuel injection engine performance, smog and emissions equipment diagnostics and repair, diesel engines, motorcycles, advance fabrication and prototyping, collision, paint and repair. (ROP, advanced and third year automotive students only).</p> <p>Adopted curricular materials: No textbook assigned.</p>
Small Engine Repair Course #12309	5	<p>This course is intended to offer entry-level instruction and training in the areas of tool use, measurement, maintenance, diagnostics, personal and shop safety, theory, design and applications as they pertain to the subject of small internal combustion engines. Students will be exposed to various methods of instruction, including, but not limited to, lecture, audiovisual instruction, and hands-on learning in a lab environment. The course will promote students to demonstrate their ability to access and use technological means to achieve the course goals. Critical thinking and problem solving skills will be demonstrated through completion of required projects such as the disassembly and reassembly and successful running of a small gas engine. In addition, the course will start students on a path of preparation for continued secondary educational opportunities and/or career placement in the field of automotive and/or power equipment. <i>Prerequisite: None.</i></p> <p>Adopted curricular materials: <i>Small Engine and Equipment Maintenance</i>, American Technical Publishers</p>

FLORIN HIGH SCHOOL
LAW Academy (Law and the World)

Florin High School’s Law and the World (LAW) Academy is one of only six programs throughout California to be designated as an official partner of the California State Bar Association. The mission of the program is to increase diversity in the legal profession by connecting students with the skills and opportunities to be competitive in the job market while acting as advocates for their communities. The LAW Academy, with its local government and business partners, provides students with career-centered technical curriculum coupled with rigorous academic instruction within a context that is relevant both to the students’ future career aspirations as well as their roles as citizens in the twenty first century global society.

The LAW Academy offers a three-year course of study that combines core “a-g” academic courses with an emphasis on legal, and criminal justice curricula, as well as opportunities to explore a variety of legal professions.

Students enrolled in this academy must complete a sequence of Career Technical Education courses noted below as well as their core academic courses (e.g., English, mathematics, science, social science, etc.) as one cohort.

LAW Academy Programs of Study

Industry Sector: Public Sector
Pathway: Legal and Governmental Services

Grade	Academic 1	Academic 2	Academic 3	CTE
9	N/A	N/A	N/A	N/A
10	World History	English 10	World Language	Business Law
11	U.S. History	English 11	World Language	Legal Careers I
12	U.S. Government and Economics	English 12		Legal Careers II

The CTE courses required for this academy are described below.

FLORIN HIGH SCHOOL

LAW Academy (Law and the World) (continued)

Course	Class Restrictions	Credits	Description
<p>LAW Business Law</p> <p>Course #12020</p>	<p>Sophomore</p>	<p>10</p>	<p>This course focuses on the origin of law, present court procedures, and the rights and duties of citizens. Students will become acquainted with laws governing businesses, as well as every day agreements (contracts). With lots of human interest (every legal problem involves rights and duties of people) relevant to our present society, this is an effective course to help develop analytical abilities. Study outside class time is necessary: cases will be analyzed; spelling and definition of legal terms is included. <i>Prerequisite(s): English 10 with a grade of C or better.</i></p> <p><u>Adopted curricular materials:</u> <i>Understanding Business & Personal Law, Glencoe</i></p>
<p>LAW Legal Careers I</p> <p>Course #16602</p>	<p>Junior</p>	<p>10</p>	<p>This course presents a comprehensive and pragmatic overview of today's legal system and is designed to prepare and train students to work in the legal field as paralegals, legal assistants, legal secretaries, certain legislative roles, as well as anyone working in a law office, and even lawyers. While developing a basic working knowledge of legal careers, students acquire introductory skills that lead to employment and gain information to pursue advanced legal careers. Through study of actual cases and operations of law related employers, students are actively engaged.</p> <p><u>Adopted curricular materials:</u> <i>The Professional Paralegal, McGraw-Hill publishers</i></p>
<p>LAW Legal Careers II</p> <p>Course #16603</p>	<p>Senior</p>	<p>10</p>	<p>Legal Careers II is the final course in the Legal careers series. This program presents information easily accessed by students and offers many opportunities for discussion, research and review. The use of profiles, experiences and case studies of legal professionals woven throughout the program will provide personal and motivating insight while introducing practical tools, substantive issues and the all-important consideration of ethics. It is filled with practice tools such as charts, diagrams, checklists, exhibits and forms. There will also be discussion questions, guest speakers, case examples, and a work component that will encourage discussion of the content and concepts presented.</p> <p><u>Adopted curricular materials:</u> <i>The Paralegal Resource Manual, McGraw-Hill Publishers</i></p>

Related electives that a student in the LAW Academy might take include:

- Geography
- Health

For a description of academic courses and the electives identified above, see Section 1. Please contact the school should you need further information.

FLORIN HIGH SCHOOL
Tech Careers Academy (TCA)

The Tech Careers Academy is for the student who wishes to prepare for a career that involves creating, designing, and producing multi-media products and services, including the development of digitally-generated or computer-enhanced media used in business. Organizations of all types and sizes use digital media to communicate with existing and potential customers. Media-support experts can find jobs in organizations doing such work as creating e-business websites.

Special advantages of the program include:

- Students exit the program with marketable job skills and an employment portfolio.
- Students receive individualized counseling and feedback as to their progress in the sequence of courses required to complete a major or program in business technology.
- Students who complete the program are given special recognition at graduation.
- Students are given the opportunity to prepare for and take articulation exams given at Cosumnes River College. Passage of these exams allows students to earn college credit for business technology courses completed at Florin High School.

Students enrolled in this academy must complete a sequence of Career Technical Education courses noted below as well as their core academic courses (e.g., English, mathematics, science, social science, etc.) as one cohort. The course required for this academy are described below.

Tech Careers Academy Programs of Study

Industry Sector: Information and Communication Technology
Pathway: Information Support and Services

Grade	Academic 1	Academic 2	Academic 3	CTE
9	English 9	Geography	Mathematics I	Computer Tech
10	English 10	World History	Mathematics II (or Geometry)	Business Law
11	English 11	US History	Mathematics III (or Algebra 2)	Engineering Design A
12	English 12	Economics	Statistics	Web Page Design and Development

The CTE courses required for this academy are described below.

Course	Class Restrictions	Credits	Description
TCA Business Law Course #12020	Sophomore	10	This course focuses on the origin of law, present court procedures, and the rights and duties of citizens. Students will become acquainted with laws governing businesses, as well as every day agreements (contracts). With lots of human interest (every legal problem involves rights and duties of people) relevant to our present society, this is an effective course to help develop analytical abilities. Study outside class time is necessary: cases will be analyzed; spelling and definition of legal terms is included. <i>Prerequisite(s): English 10 with a grade of C or better.</i> Adopted curricular materials: <i>Understanding Business & Personal Law, Glencoe</i>

FLORIN HIGH SCHOOL
Tech Careers Academy (continued)

Course	Class Restrictions	Credits	Description
TCA Computer Technology Course #12111	Freshman	5	This course focuses on computer technologies and their uses as applied to academic success. Students will learn keyboarding skills, word processing, computer operations, spreadsheets, database, library research technologies, and telecommunications. Students will be able to apply the skills learned in this course to complete assignments in other courses throughout their school career, by using the computer to conduct research, prepare papers, solve problems, and manage information. This course meets the Technology graduation requirement. Adopted curricular materials: <i>Century 21 Computer Applications & Keyboarding, South Western</i>
TCA Exploring Computer Science Course #16108	Sophomore Junior Senior	10	This course focuses on the creative, collaborative, interdisciplinary, and problem-solving nature of computing, featuring an inquiry-based approach to learning and teaching. As part of this curriculum, students will develop real-world computing problems that are culturally relevant and address social and ethical issues while delivering foundational computer science knowledge to students. Students will engage in several in-depth projects to demonstrate the real-world application of computing. <i>Prerequisite(s): Computer Technology</i> Adopted curricular materials: No textbook assigned.
TCA Web Page Design and Development Florin High Course # 12138	Sophomore Junior Senior	10	This course provides students with historical background, varied programming skills, design elements, and current technological practices that will be used to develop professional Web pages. Students will use the Internet to research Web pages and various works of art, which are created via electronic media. In addition, HTML/Java programming language and graphic enhancing software will be combined with artistic layout and design methods to create both functional and aesthetically pleasing Web pages for use on the Internet. <i>Prerequisite(s): Computer Technology with a grade of C or better or instructor approval.</i> Adopted curricular materials: <i>Microsoft Front Page 98, Course Technology</i>

Related electives that a student in the Tech Careers Academy might take include:

- Business Finance
- General Business
- Computer Applications, Advanced
- Accounting
- Marketing

***For a description of academic courses and the electives identified above, see Section 1.
Please contact the school should you need further information.***