

# Elk Grove High School

Telephone Number: (916) 686-7741

<http://eghs-egusd-ca.schoolloop.com/>

## Sustainable Agriculture Green Education Academy (SAGE)

The Sustainable Agriculture Green Education (SAGE) has been developed by administrators, teachers, parents, community partners/advisors and members of the State Agriculture Education staff as a California model. This academy is a Career Technical Education program that is academically rigorous and integrates technological experiences.

Students will experience high quality, advanced course work, as well as leadership building opportunities offered through the FFA. They will also become involved with our supervised experience program and job shadowing in selected fields of interests pertaining to their fields of study.

The Elk Grove High School Sustainable Agriculture Green Education Academy offers a curriculum that meets graduation requirements, as well as California State University and University of California entrance requirements for Lab Science, Visual and Performing Arts, Economics and elective offerings.

Elk Grove High School's Agriculture Program was ranked as California's top chapter in 1996, 1997, 1999, and 2000, and also received the California State School Board's *Golden Bell Award* for 1996. This program is designed to improve academic performance and student success. Due to specifically designed program offerings and the highly developed laboratory facilities at Elk Grove High School, enrollment in Elk Grove High School's Sustainable Agriculture and Green Education Academy is open to all interested students who reside within the boundaries of the Elk Grove Unified School District.

*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.*

### Sustainable Agriculture Green Education Academy Programs of Study

**Industry Sector:** Agriculture and Natural Resources

**Pathway:** Agricultural Business

Grade	Academic 1	Academic 2	Academic 3	CTE	Advocacy
9	SAGE Introduction to Applied Science	SAGE Geography	SAGE CP English 9	Elements and Principles of Floral Design and Implementation	Yes
10	SAGE Agricultural Biology	SAGE World History	SAGE CP English 10	Floral Design II	Yes
11	SAGE Advanced General Science	SAGE US History	SAGE CP English 11	Agriculture, Sales and Service	Yes
12	SAGE Agricultural Economics		SAGE CP English 12	Agriculture Sales and Service OR Ranch Animal Science	Yes

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## Sustainable Agriculture Green Education Academy (SAGE)

Industry Sector: Agriculture and Natural Resources

Pathway: Agricultural Mechanics

Grade	Academic 1	Academic 2	Academic 3	CTE	Advocacy
9	SAGE Introduction to Applied Science	SAGE Geography	SAGE CP English 9	Design and Implementation	Yes
10	SAGE Agricultural Biology	SAGE World History	SAGE CP English 10	Fabrication with Wood and Metal	Yes
11	SAGE Advanced General Science	SAGE US History	SAGE CP English 11	Manufacturing Technology/Metals	Yes
12	SAGE Agricultural Economics		SAGE CP English 12	Agriculture Sales and Service	Yes

The CTE courses required for this academy are described below.

Course	Class Restrictions	Credits	Description
<b>SAGE Elements and Principles of Floral Design</b>  “a-g”/“f” or “g” approved  Course #12218	Freshman	10	This course is designed to acquaint students with theories and principles of artistic design and their influence on floral artistry. The course emphasizes the necessary knowledge and skills to provide the student with an understanding of artistic perception, creative expression, historical and cultural context(s); aesthetic valuing and connections, and relations and applications of the visual arts. Balance, color and symmetry using floral and synthetic medium will be emphasized to allow students to apply an artistic approach to floral art. Various assignments based on abstract two and three dimensional designs, historical culture and theory, color theory, and analytical critiques of various floral art works will serve as a foundation for more complex works such as multi-part floral designs and creative expression. This course meets a-g requirement for Visual and Performing Arts credit.  <b>Adopted curricular materials:</b> <i>Art of Floral Design</i> , Delmar Publishing
<b>SAGE Design and Implementation</b> “a-g”/“f” approved  Course #12320	Freshman	10	This course emphasizes aesthetics and creativity, design, drawing, and project implementation. Sculpturing experiences in wood, metal, and clay will be included. Assigned and individualized projects along with course work on history of design and construction are also included. Tests will be given regularly and students will be expected to participate in projects and other assignments. Aesthetic judgment will be a part of the course. Credits may be used toward the Visual and Performing Arts graduation requirement.  <b>Adopted curricular materials:</b> No textbook assigned.

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**Sustainable Agriculture Green Education Academy (SAGE) (continued)**

Course	Class Restrictions	Credits	Description
<b>SAGE Floral Design II</b>  <b>Course #12219</b>	Sophomore	10	In this course students will explore the floriculture industry on a more technical and advanced level. Students will expand upon their creative expression, aesthetic valuing, perceptions and historical and cultural context. The art elements and principles of floral design will serve as a foundation for each unit. Students will be exposed to wedding and event planning, including floral consultation, construction and set up. <i>Prerequisite(s): Elements and Principles of Floral Design</i>  <b>Adopted curricular materials:</b> No textbook assigned.
<b>SAGE Fabrication with Wood and Metal</b>  <b>Course #12213</b>	Sophomore	10	This course offers practical experiences in arc and oxyacetylene welding, identification and use of tools and equipment as well as building projects with wood and metals. Students will be expected to complete two to three projects of their own choosing. These are graded. Tests will be given regularly and students will be expected to participate in projects and other assignments. <b>Adopted curricular materials:</b> No textbook assigned.
<b>SAGE Ranch Animal Science</b>  <b>Course #16202</b>	Senior	10	This course provides students 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.  <b>Adopted curricular materials:</b> No textbook assigned.
<b>SAGE Agriculture Sales and Service</b>  <b>Course #16200</b>	Senior	10	In this course students gain a working knowledge of any of the wide variety of Ag-businesses in the area; develop skills in the Agri-business field of your choice, as well as many skills that are common to all age-businesses.; become prepared for the most important industry in California. Sites may include: veterinary practices, horse training facilities and feed stores.  <b>Adopted curricular materials:</b> No textbook assigned.
<b>SAGE Manufacturing Technology – Metals</b>  <b>Course #16213</b>	Junior	10	The course emphasizes welding safety, weld designs, basic framing, oxygen/acetylene welding and brazing, oxygen gas cutting, arc welding, arc air cutting, pipe welding, hard surfacing, weld testing, metal identification, blueprint reading, measurement and layout skills, and use of fabrication equipment.  <b>Adopted curricular materials:</b> No textbook assigned.

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

- Agriculture Leadership
- Anatomy and Physiology of Animals and Plants
- Advanced Animal Science

For a description of academy core academic courses and the electives identified above, see the course descriptions at the front of this catalog. Please contact the academy coordinator should you need further information.

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

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**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
<b>Automotive Technology I</b>  <b>Course #12306</b>	10	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.  <b><u>Adopted curricular materials:</u></b> No textbook assigned.
<b>Automotive Technology II</b>  <b>Course #12307</b>	10	Extended 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.  <b><u>Adopted curricular materials:</u></b> No textbook assigned.
<b>Automotive Technology III</b>  <b>Course #12308</b>	10	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).  <b><u>Adopted curricular materials:</u></b> No textbook assigned.

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**Culinary Arts Career Pathway**

The Culinary Arts Career Pathway (CACP) at Elk Grove High School consists of a series of four, semester-long courses taught at EGHS and an optional 5<sup>th</sup> year-long Catering course taught at Florin High School. The CACP is designed to develop career-based culinary knowledge and skills starting at the beginning level and progressing towards increasingly advanced expertise and training. If a student chooses to complete the CACP, courses should be completed in the following order:

- A. Foods & Nutrition I (Fall Semester only)
- B. World Cuisines (Spring Semester only)
- C. Culinary Arts I, Advanced (Fall Semester only)
- D. Culinary Arts II, Advanced (Spring Semester only)

In the CACP, students receive instruction in a wide variety of culinary topics and practice techniques that help prepare them either for a career or further education in a culinary field. Students will have access to industry professionals as well as opportunities to examine culinary educational programs after graduation. Many students have completed the program and then enrolled in Culinary College programs or gained employment in a culinary-related career.

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**Culinary Arts Career Pathway (continued)**

Course	Class Restrictions	Credits	Description
<b>Culinary Arts I, Advanced</b>  <b>Course #12420</b>	Junior Senior	5	<p>This course is designed for the student who is interested in gaining new and challenging knowledge and skills in the culinary field for personal use or with a goal to pursue a career in the culinary field. Students will learn advanced techniques in the areas of baking yeast and quick breads along with sweet and savory pastries, plated desserts, food presentation, working with chocolate, and cake fabrication and decorating. Students will explore a wide variety of specialty foods and the latest food trends. Students will also gain experience in recipe development, planning special events and entertaining with food. Careers relating to the culinary arts will be examined with guest speakers and/or field trips.</p> <p><i>Prerequisite(s): Foods and Nutrition <u>or</u> World Cuisines.</i></p> <p><b>Adopted curricular materials:</b> <i>Culinary Essentials, Glencoe/McGraw-Hill</i></p>
<b>Culinary Arts II, Advanced</b>  <b>Course #12421</b>	Sophomore Junior Senior	5	<p>This course is designed for the student who is interested in gaining new and challenging knowledge and skills for personal use or with a goal to pursue a career in the culinary field. Students will learn advanced techniques in the areas of use of herbs and spices, sauce-making, cooking methods (grilling, sautéing, braising, etc.), working with a variety of culinary equipment, and food/plate presentation. Students will explore a wide variety of specialty foods and the latest food trends. Students will also gain experience in planning special events and entertaining with food. Careers relating to the culinary arts will be examined with guest speakers and/or field trips.</p> <p><i>Prerequisite(s): Foods and Nutrition <u>or</u> World Cuisines.</i></p> <p><b>Adopted curricular materials:</b> <i>Culinary Essentials, Glencoe/McGraw-Hill</i></p>
<b>Foods and Nutrition</b>  <b>Course #12423</b>	Freshman Sophomore	5	<p>This course introduces students to basic food knowledge and preparation skills. Students will gain hands-on experience creating menu items in areas such as: breads, fruits, vegetables, desserts, soups, salads, etc. Assignments will include topics relating to: nutrition, healthy eating, food knowledge, and time management. Students will gain experience using a wide variety of food preparation equipment, and develop skills such as knife techniques, measuring, menu creation, and food presentation. This course can serve as the introductory class for students seeking a culinary career path.</p> <p><b>Adopted curricular materials:</b> <i>Guide to Good Food, Goodhart/Wilcox</i></p>
<b>World Cuisines</b>  <b>Course #12422</b>	Freshman Sophomore	5	<p>This course explores the food and customs of various world cultures. Emphasis will be on the planning, buying, and preparation of foreign and native foods. Food preparation will include the study of herbs, spices, ingredients, cooking techniques and equipment of a variety of world cuisine. Special units include the world food crisis and awareness of cultural traditions. This course can serve as the intermediate class towards a food and nutrition career path.</p> <p><i>Prerequisite(s): Foods and Nutrition 4 is recommended.</i></p> <p><b>Adopted curricular materials:</b> <i>Guide to Good Food, Goodhart/Wilcox</i></p>

## Technology and Digital Arts Academy (TDA)

The Technology and Digital Arts Academy (TDA) provides students with two distinct career-technical education paths: Computer Graphics and Digital Photography. These pathways prepare students for careers in the media industry, freelance photography industry, or graphic arts industry.

Computer Graphics is an exciting option within the Elk Grove High School Technology and Digital Arts Academy (TDA). This area of study will provide an in-depth view into the multi-media design field. Students receive a broad overview of computer software programs through an exciting range of courses starting in their freshman year. Students start with basic principles of design and learn how to carry them through to final production. Students gain knowledge of how to apply their problem-solving skills to the world of multi-media.

The Digital Photography program prepares students for a variety of opportunities in the ever-changing digital world. Students receive a broad overview of computer software programs through an exciting range of courses starting in their freshman year. In their junior year, students expand their knowledge by taking two college credit courses offered at Elk Grove High School (Photo 40 and Digital Photo II). These six (6) CSU, Sacramento units are transferable to almost any college in the country.

*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.*

### ELK GROVE HIGH SCHOOL Technology and Digital Arts Academy Programs of Study

**Industry Sector:** Arts, Media and Entertainment  
**Pathway:** Design, Visual, and Media Arts

Grade	Academic 1	Academic 2	Academic 3	CTE
9	N/A	N/A	N/A	Computer Graphic Design I
10	Geometry	Biology	English 10	Digital Art and Graphic Design 10
11	Algebra II	Chemistry	English 11	Computer Graphics
12	Pre-Calculus	AP Biology	English 12	Computer and Graphic Design II

**Industry Sector:** Arts, Media and Entertainment  
**Pathway:** Design, Visual, and Media Arts

Grade	Academic 1	Academic 2	Academic 3	CTE
9	N/A	N/A	N/A	Computer Graphic Design I
10	Geometry	Biology	English 10	Photography I
11	Algebra II	Chemistry	English 11	Digital Art and Graphic Design 11
12	Pre-Calculus	AP Biology	English 12	Digital Art and Graphic Design 12

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**Technology and Digital Arts Academy (TDA) (continued)**

The CTE courses required for this academy are described below.

Course	Class Restrictions	Credits	Description
<b>TDA Photography I</b>  “a-g”/“f” approved   Course #6210	Sophomore	10	This course provides an outline of the history of photography, the basic design elements, cameras; pinhole, simple, and single lens reflex, film types, processing of black and white film, composition, projection and contact printing types of photography; portrait, action, close-up and still life, use of lithographic films for graphic arts, finishing prints for exhibition, and subject treatment. It will cover a variety of lab techniques and safe chemical handling practices. This course meets the graduation requirement and the UC and CSU Visual and Performing Arts requirements.  <u><b>Adopted curricular materials:</b></u> <i>Photographic Eye</i> , Davis
<b>TDA Digital Art and Graphic Design</b>  “a-g”/ “f” approved   Course #12142	TDA students only Sophomore (Computer Graphics Pathway)	10	This course allows students to study and practice several areas of contemporary graphic production and illustration with a strong emphasis on computer-generated art and graphics. This course is intended for art students who can work at an independent and mature level. Students will be working with current software, hardware and graphic technologies and will learn about career opportunities in the graphic arts. Basic computer use and operation as well as the basic elements of art and the principles of design will be studied. In addition, art history, art appreciation, art criticism and judgment will be included in the course of study. This course meets the graduation requirement, technology requirement, and the UC and CSU Visual and Performing Arts requirements. This course is eligible to receive College credit (ACE Accelerated College Entrance, CSUS 3 units).  <u><b>Adopted curricular materials:</b></u> <i>Art Talk</i> , Glencoe
<b>TDA Computers and Graphic Design II</b>  “a-g”/ “f” or “g” approved   Course #12144	TDA students only Senior	10	This course is designed to build upon the skills and techniques learned in Computers and Graphic Design and in the Digital Art course. Students will learn advanced tool skills in Adobe’s Creative Suite (Photoshop, Illustrator, and InDesign). These skills will be applied to advanced personal and community projects. Students will have opportunities to work with real clients and explore careers in the field. Emphasis will be on expanding creative thinking as a valuable tool for visual problem solving and applying those skills in the marketplace. A professional attitude is required. Design process, terminology, history, and aesthetics will continue to be a focus. This course fulfills the district technology proficiency requirement and meets the UC and CSU Visual and Performing Arts requirement and the UC elective requirement. (This course is currently pending approval to receive college credit at CRC)  <u><b>Adopted curricular materials:</b></u> No textbook assigned.

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**Technology and Digital Arts Academy (TDA) (continued)**

Course	Class Restrictions	Credits	Description
<b>TDA Digital Art and Graphic Design</b> "a-g"/"f" approved  Course #12142	Junior Senior	10	This course allows students to study and practice several areas of contemporary graphic production and illustration with a strong emphasis on computer-generated art and graphics. This course is intended for art students who can work at an independent and mature level. Students will be working with current software, hardware and graphic technologies and will learn about career opportunities in the graphic arts. Basic computer use and operation as well as the basic elements of art and the principles of design will be studied. In addition, art history, art appreciation, art criticism and judgment will be included in the course of study. Students are strongly recommended to complete Art I and Computer Technology prior to the class. This course meets the graduation requirement, technology requirement, and the UC and CSU Visual and Performing Arts requirements. May be repeated for credit. <i>Prerequisite(s): "B" or better in Photography I and Instructor recommendation.</i>  <b>Adopted curricular materials:</b> <i>Art Talk</i> , Glencoe
<b>TDA Computers and Graphic Design</b>  Course #12143	Freshman	10	This course allows students to learn a fundamental understanding of computerized graphic art design, illustration, and production techniques and become knowledgeable in the use of software for publication design and production, illustration, and digital imaging. Major projects may be retained for inclusion in a student portfolio.  <b>Adopted curricular materials:</b> No textbook assigned.

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

- Computers and Graphic Design II
- Digital Cinema
- Photography II
- TDA Council

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