



Programs of Study 2025-2026

ARCHITECTURE AND ENGINEERING DESIGN

The Architectural & Engineering Design program of study prepares students for a variety of engineering and design professions including architectural, civil, or mechanical design. Students will develop problem-solving and critical-thinking skills by identifying the relationship between available resources and requirements of a project/problem to accomplish realistic planning. As they progress through the program of study, students create design solutions for increasingly sophisticated problem sets, presenting information through various modes of visual communication such as drawing, rendering, and modeling in combination with verbal and written communication.

Year 1: Architectural & Engineering Design I – Recommended for 9th & 10th grade

Year 2: Architectural & Engineering Design II – Recommended for 10th & 11th grade

Year 3: Architectural & Engineering Design III¹ – Recommended for 11th & 12th grade

Year 4: Architectural & Engineering Design III¹ – Recommended for 11th & 12th grade

1) Architectural & Engineering Design III is offered for two credits over two years. One credit Architecture concentration and one credit Engineering concentration.

For more information contact instructor Shane McNeill at shane.mcneill@wcs.edu

AUTOMOTIVE COLLISION REPAIR

The Automotive Collision Repair program of study prepares students for entry into careers as professional service technicians. Content emphasizes customer service skills, proper use of tools and equipment, safety, shop operations, engine fundamentals, damage analysis, cost estimation, painting and refinishing, and structural and non-structural repair in a hands-on environment.

Year 1: Intro to Collision Repair – Recommended for recommended for 9th & 10th grade

Year 2: Collision Repair: Non-Structural¹ – Recommended for 10th & 11th grade

Year 3: Collision Repair: Painting & Refinishing¹ – Recommended for 11th & 12th grade

Year 4: Collision Repair: Damage Analysis, Estimating, & Customer Service – Recommended for 12th grade

Classes are limited to 12 - 15 students

1) Student certification in I-CAR Non-Structural Technician ProLevel 1.

2) Student certification in I-CAR Refinish Technician ProLevel 1.

For more information contact instructor Stanley Russell at stanley.russell@wcs.edu

BIOSTEM

BioSTEM explores biotechnology and innovations in the field of medicine. Students will explore several occupations within BioSTEM fields such as medical laboratory science, research science, genetics, medicine, and engineering. Students will research and discuss the ethical requirements for conducting DNA or biomedical research that will involve the public. Students will then apply their knowledge and steps of the scientific inquiry process throughout the course to ask questions, test hypotheses, model solutions, and communicate results.

Year 1: BioSTEM I Honors – Recommended for 10th grade

Year 2: BioSTEM II Honors – Recommended for 11th grade

Year 3: BioSTEM III Honors – Recommended for 12th grade

All BioSTEM courses may substitute for the third lab science credit required for graduation

For more information contact Emily Orbison at emily.orbison@wcs.edu

CULINARY ARTS

Culinary Arts equips students with the skills to pursue careers in the culinary field as a personal chef, caterer, executive chef, and food and beverage manager. Courses cover topics that range from kitchen safety and sanitation, history of the food services industry, careers, nutrition, recipe basics, proper kitchen tools and equipment, and kitchen staples to food presentation, advanced cooking principles, bakeshop preparation skills, professionalism, and business opportunities. Students may gain job experience while still in high school through local and Career and Technical Student Organizations (CTSO) competitions and work-based learning.

Year 1: Culinary Arts I – Recommended for 9th & 10th grade

Year 2: Culinary Arts II¹ – Recommended for 10th & 11th grade

Year 3: Culinary Arts III – Recommended for 11th & 12th grade

1) Culinary Arts II is two credits / two class periods.

For more information contact instructor Charles Gillespie at charlesg@wcs.edu

DIGITAL ARTS & DESIGN

DIGITAL ARTS AND DESIGN PROGRAM OF STUDY

Students in the Digital Arts & Design program of study will develop skills and knowledge in graphic design, computer art and illustration, photography, digital imaging, interactive design, animation and motion graphics. Using a state of the art iMac lab with Adobe Creative Cloud software students will create real world projects and develop their professional portfolio based on each students particular interests.

After the first year course where students are introduced to many fields of Digital Arts & Design, students will begin to concentrate/focus in one area they are most interested in. These include design, illustration/digital art, photography, animation or they may choose a more broad combination of these areas of study. For example a student may produce a photography portfolio in the Digital Arts & Design III Portfolio DC or they may choose to take DAD III Animation/Motion graphics where they create characters, animation, and motion graphics.

Year 1: Digital Arts & Design I (**May Count as Fine Arts Credit**) – Recommended for 9th & 10th grade

Year 2: Digital Arts & Design II – Recommended for 10th & 11th grade

Year 3: DAD III Portfolio DC or DAD III Animation & Motion – 11th & 12th grade or Applied Arts Practicum – 12th

Year 4: DAD III Portfolio DC or DAD III Animation & Motion or Applied Arts Practicum – 12th

CREATIVE AGENCY PROGRAM OF STUDY

This program of study will function as a creative agency for Franklin High School. Students will choose a primary program of study from Digital Arts & Design, Marketing, or TV & Film. It is recommended that students also include Digital Arts & Design I—where they can earn their Fine Arts Credit—and the required capstone course Applied Arts Practicum. Students will use the skills and knowledge they learn within their focus areas to plan and create promotional material such as posters, brochures, social media graphics, weekly podcasts, and a magazine to promote Athletics, CCTE programs, Fine Arts, IB and other programs in the school.

Students may take Applied Arts Practicum in their senior year and not take Digital Arts & Design I, but it is highly recommended that students also take DAD I to acquire the skills in the Adobe Creative Cloud software and learn elements and principles of design, color, and typography. They can use these skills both in their focus areas and when taking the Applied Arts Practicum. These additional skills may prove beneficial in post-secondary and in their careers.

BOTH PROGRAMS OF STUDY

- 1) DAD I may substitute as a Fine Arts Credit.
- 2) Digital Arts & Design III is offered for two credits over two years. Students may choose DAD III DC Portfolio or Animation.
- 3) DAD III Portfolio has an AP component. Students may choose to submit their portfolio to AP for college credit.
- 4) All of the Digital Arts & Design courses are eligible for dual enrollment hours from TCAT in their Digital Graphic Design program at Columbia State Community College (Williamson County site.) Students participating in the TCAT dual enrollment will receive (5) additional percentage points for each grading period and each semester exam.
- 5) Dual credit. Students will receive four (4) additional percentage points for each grading period and each semester exam. To earn four (4) points for the second semester, students must submit a portfolio to Columbia State Community College. 1.0 points will be added to the GPA as it falls under the last GPA column (5.0).
- 6) DAD III/Animation & Motion Graphics may be taken with no prerequisites by upperclassmen – 11th & 12th grades.

For more information contact instructor Melissa Estes at melissae@wcs.edu.

DIGITAL TECHNOLOGY (IT)

CYBERSECURITY PROGRAM OF STUDY

Students in Cybersecurity solve problems that allow people to share computing resources while protecting privacy. The courses place emphasis on security integration, application of cybersecurity practices and devices, ethics, and best practices management while exploring malware threats, network vulnerabilities, infrastructure, and cryptology. Once complete, students will have several options to continue their career development: go directly into the workforce, continue progress toward industry certifications, or attend 2-year or 4-year institutions.

Year 1: Cybersecurity I Honors¹ – Recommended for 9th & 10th grade

Year 2: Cybersecurity II Honors¹ – Recommended for 10th & 11th grade

Year 3: Practicum or AP Computer Science A³ or AP Computer Science Principles³ or IB Computer Science³ – 11 & 12

Year 4: Practicum 2 or AP Computer Science A³ or AP Computer Science Principles³ – 11th & 12th grade

CODING/GAMING PROGRAM OF STUDY

The Coding/Gaming program of study challenges students in problem analysis, algorithm construction, and computer implementation of algorithms as they create and develop programs and games using C++ and Unreal Engine. At the completion of the program, students will have created their own video game with design and animation..

Year 1: Coding I Dual Credit² – Recommended for 9th & 10th grade

Year 2: Coding II Honors¹ – Recommended for 10th & 11th grade

Year 3: Practicum or AP Computer Science A³ or AP Computer Science Principles³ or IB Computer Science³ – 11 & 12

Year 4: Practicum 2 or AP Computer Science A³ or AP Computer Science Principles³ – 11th & 12th grade

BOTH PROGRAMS OF STUDY

AP Computer Science A and IB Computer Science will familiarize students with the concepts and tools of computer science as they learn a subset of the Java programming language.

Both programs of study have a Practicum course for 3rd and 4th level students. The capstone course provides students with the opportunity to apply their skills and knowledge toward the completion of an in-depth project with fellow team members. Students take on more responsibilities for producing independent work and managing processes involved in the planning, designing, refinement, and production of original products.

All courses in Information Technology satisfies the new state high school computer science course requirement as well as substituting for 4th credit of math and 3rd lab science.

- 1) Students earning honors will receive 3 extra points for each of the grading periods and exams.
- 2) Dual credit may be earned through Columbia State Community College. Students earning dual credit will receive 4 extra points on each grading period and each semester exam.
- 3) Students earning AP or IB will receive 5 extra points on each grading period and each semester exam.

To receive 2nd semester points for DC, AP, or IB, the student must sit for the appropriate exam.

For more information contact instructor Beth Foreman at saraf@wcs.edu

EARLY CHILDHOOD EDUCATION & TRAINING CAREERS

Early Childhood Education and Training is designed to prepare students for the field of teacher education. Students will gain knowledge about basic child development from infancy through the teen years. Student will learn to apply this knowledge to all areas of education from elementary through secondary. Course content covers the components of curriculum planning, student learning, screening, and assessing, and many other skills related to teaching. Upon completion of this program of study, students will have had the opportunity to work alongside educators in an internship experience, compile artifacts for a professional portfolio, and graduate prepared for further training at the postsecondary level. Students may gain job experience while still in high school through local and Career and Technical Student Organizations (CTSO) competitions and work-based learning.

Year 1: Early Childhood Education Careers I – Recommended for 9th & 10th grade

Year 2: Early Childhood Education Careers II¹ – Recommended for 10th & 11th grade

Year 3: Early Childhood Education Careers III – Recommended for 11th

Year 4: State Dual Credit: Introduction To Education² or Work Based Learning – 11th & 12th grade

- 1) Early Childhood Education Careers II is two credits / two class periods.
- 2) State Dual Credit: Introduction To Education can be taken without prerequisites as an elective.
- 2) Local and statewide dual credit courses – students will receive four (4) additional percentage points for each grading period and each semester exam. To earn four (4) points for the second semester, students must sit for the exam.
1.0 points will be added to the GPA as it falls under the last GPA column (5.0).

For more information contact instructor Angie Cathey at angelac1@wcs.edu

PRE-LAW

The Pre-Law program of study prepares students for a range of careers in law enforcement, crime scene analysis, forensic science, public safety, criminal justice, and is designed for students interested in legal services careers. In this program of study, course content covers a wide range of knowledge and skills related to the American legal system, including basic principles common to business, personal, criminal and civil law. Other topics include legal careers, the justice system, juvenile justice, immigration law, ethics, and professionalism.

Year 1: Pre-Law I Honors – Recommended for 9th grade

Year 2: Pre-Law II Honors– Recommended for 10th grade

Year 3: Pre–Law III Honors– Recommended 11th grade

Year 4: Pre–Law Practicum – Recommended for 12th grade

For more information contact instructor Shauna Dixon at shaunad@wcs.edu

MARKETING AND MANAGEMENT

The Marketing program of study is designed to prepare students for employment in a career where learned techniques and strategies are used to convey ideas and information through marketing communications. This program of study will also prepare students who want to start, own, and operate their own business. Subject matter is arranged around sequenced, progressive courses that provide students with the opportunity to develop an understanding of marketing systems and how they are utilized in sales, advertising, public relations, and other marketing services. Course content centers on concepts in business, finance, and marketing; social responsibility and ethics; the marketing mix; economics; market research; product development; and the role of marketing in business.

Year 1: Marketing & Management I: Principles ¹ – Recommended for 10th grade

Year 2: Marketing & Management II: Advanced Strategies – Recommended for 11th grade

Year 3: Social Media & Analytics – Recommended for 12th grade

- 1) Dual credit may be earned through Columbia State Community College. Students earning dual credit will receive 4 extra points to the first semester and 4 points to the second semester if they sit for the challenge exam. Students earning dual credit through CSCC will also have .75 points added to their GPA.

For more information contact instructors Justin Anderson at justin.anderson@wcs.edu.

TV & FILM PRODUCTION

The TV & Film Production program of study is designed for students interested in a range of entertainment and news media fields. Course content centers on production of various television, cinema, radio, and other audio and video products, including commercials, music, news, interactive programming, and film. Students complete all phases of the production process including planning, coordinating, capturing, editing, and distributing productions. Topics include but are not limited to concept creation, scripting, interviewing, budgeting, scheduling, set design, engineering, field and studio production, and editing, and, as well operating production equipment such as cameras, lights, and audio equipment. Upon completion of this program of study, students will be prepared to seek employment or advanced training as an audio and video equipment technician, camera operator, film and video editor, multimedia artist and animator, broadcast technician, and many other careers in entertainment and media.

Year 1: TV and Film Production I – Recommended for 9th & 10th grade

Year 2: TV and Film Production II – Recommended for 10th & 11th grade

Year 3: TV and Film Production III ¹ – Recommended for 11th & 12th grade

Year 4: TV and Film Production III ¹ – Recommended for 12th grade

- 1) TV and Film Production III is offered for two credits over two years.

- 1) Dual credit from Columbia State Community College is offered for post-secondary credit for TV/Film III. Students earning dual credit will receive 4 extra points to the first semester and 4 points to the second semester if they sit for exam/ portfolio review. Students earning dual credit through CSCC will also have .75 points added to their GPA.

For more information contact instructor Keri Thompson at keri.thompson@wcs.edu