



Seckinger High School – Schools of Study – Pathways



The table below shows the Pathways offered in our three Schools of Study. In addition to the pathway information, the table demonstrates the post-graduation college and career opportunities for students upon completion of a pathway.

| SKG School of Study | Pathway | Student Interests | Course 1 (9 th Grade) | Course 2 (10 th Grade) | Course 3 (11 th Grade) | Course 4 (12 th Grade) | Post-Secondary Education Opportunities | Future Career Opportunities |
|---------------------------------|--|---|---|--|---|--|--|--|
| Advanced Science and Technology | Artificial Intelligence | Ideal for students that are creative thinkers, strong problem solvers, and have an interest in computers and solving global issues with innovative technology solutions. | Foundations of Artificial Intelligence | Concepts of Artificial Intelligence | Applications of Artificial Intelligence | Design Capstone OR 4 th YR Elective OR Internship | -Bachelor's degree in Intelligent Robotics Engineering -Bachelor's degree in Robotics and Intelligent Systems -Bachelor's degree in Computer Science (Artificial Intelligence) | -UX Designer -Software Engineer -AI Research Scientist -Computer Scientist -Machine Learning Developer -Computer Systems Engineer |
| | Mechanical Engineering | Ideal for students that have an interest in math, science, and technology subjects, enjoy working collaboratively on teams, and have strong leadership and communication skills. | Introduction to Mechatronics – DC Theory, Pneumatic Systems | AC Theory, Electric Motors, and Hydraulic Systems | Semiconductors, Mechanical Systems, Pump and Piping Systems | Design Capstone OR 4 th YR Elective OR Internship | -4 Year - Engineering (Civil, Mechanical, Electrical, & Industrial) -2 Year - Automated Manufacturing and Engineering Technology | -Mechatronics Engineer, Electrical Engineer, and Industrial Engineer |
| | Environmental Engineering and Sustainability | Ideal for students that are passionate about environmental and social sustainability, able to motivate and lead others, and would enjoy developing innovative solutions to global environmental issues. | Foundations of Engineering/Tech | Engineering Concepts | Engineering applications | Design Capstone OR 4 th YR Elective OR Internship | -Bachelor's degree in Environmental Engineering, or related science/engineering fields. | -Environmental Engineer -Water Project Manager -Green Building Engineer -Environmental Health Director -Environmental Engineering Consultant |
| | Computer Science | Ideal for students that are logical thinkers, strong in math and problem solving, and have an interest in computers. | Intro to Digital Technology | AP Computer Science Principles | AP Computer Science | AP Computer Science A | -Computer Science -Computational Media | -Software Developer, IT Analyst, System Engineer, Network Architect |
| Business and Leadership | International Business | Ideal for students that have an interest in business, entrepreneurship, and enjoy working collaboratively on teams, and have strong leadership and communication skills. | Intro to International Business | Global Awareness and Cultural Competency | International Business Concepts | Design Capstone OR 4 th YR Elective OR Internship | -Co-major in International Business -Bachelor of Business Administration | -International Marketing Specialist -Business Manager -Foreign Exchange Operations Analyst |
| | Civic Leadership and Diplomacy | Ideal for students that have a strong interest in global issues and government enjoy working collaboratively with a focus on problem solving, able to think critically, has strong communication skills and can effectively lead others. | Foundations of Leadership | AP Government US & AP Comparative Government AND/OR American Government & Comparative Politics | International Relations & Diplomacy | Design Capstone OR 4 th YR Elective OR Internship | -Bachelor's Degree in Political Science, Public Policy, or International Relations | -Community & Public Relations -Security & International Relations -Diplomatic & Public Policy -Human Rights & International Law -Conflict Resolution |
| | World Languages | Ideal for students that have an interest in the exploration and application of language and culture. Benefits of high proficiency in a language other than English include career advancement, broader global context and perspective, increased mental flexibility, and connection to other cultures and people. | DLI Spanish/ World Language I | DLI Spanish/ World Language II | DLI Spanish/ World Language III | Design Capstone OR 4 th YR Elective OR Internship | -Bachelor's Degree in Language Education, Dual Language Immersion Teaching, Translation/Interpretation, or International Studies. -Co-Major in Any Field | -World Languages Teacher -Dual Language Immersion Teacher -Interpreter/Translator -Diplomat/ Foreign Service -Language/Culture Expert in any Applicable Career |
| | Marketing & Management | Ideal for the student that has an entrepreneurial mindset and can effectively problem solve and communicate with others. | Marketing Principles | Marketing & Entrepreneurship | Marketing Management | Work Based Learning | -Marketing, Business, or Advertising | -Business Ownership, Marketing Specialist, Advertiser |
| Art and Design | Visual Arts | Ideal for the creative student who thrives when able to express themselves through the manipulation and study of visual media. | 2D/3D Art (Vis Art I/Vis Art II) | Printmaking I Drawing & Painting I | Printmaking II Drawing & Painting II AP Studio | Design Capstone OR 4 th YR Elective OR Internship | -Bachelor's Degree in: Education -Graphic Design | -Educator -Fashion Design -Graphic Design -Professional Artist -Media Design |

- All students at SKG should work to complete at least one pathway. As students complete their pathway of choice, students should also take Fine Arts Courses and World Language Courses. We offer 7 periods, so students have the opportunity to take Pathway coursework.
- Advanced courses and program of study (AP, dual enrollment, etc.) are offered as well for students interested in 4-year colleges and seeking advanced degrees.
- Any course offered is contingent upon a minimum enrollment number.



Seckinger High School - Academic Pathways



The table below displays example academic pathways for each content areas. A student can be on the standard pathway in one subject and on a more advanced pathway in another subject. While there is room for flexibility and deviation, the table serves as a guide for the most common sequences students complete during their time at Seckinger High School. Please contact your student's counselor if you have specific questions.

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|-------------------------------------|--|---|--|------------------|---|------------------|---|------------------|--|--|--|---|
| | Digital Arts | Ideal for the artistic student who wishes to explore the digital media and its relationships and support of the arts. | Intro to Graphics & Design 2D/3D Art (Vis Art I/Vis Art II) Music Technology | | Graphic Design & Production Photography I Music Technology II | | Advanced Graphic Design Photography II Music Technology III | | Design Capstone OR 4 th YR Elective OR Internship | -Bachelor's Degree in: Architecture & Design; Civil Engineering; Graphic Design & Marketing; Studio Production; Education | -Studio Engineer -Sound Design -Graphic Design -Marketing | -Photographer -Fashion Design -Educator |
| | Performing Arts | Ideal for the student who has a passion for performing and expressing themselves through various artistic mediums. | Band Orchestra Chorus | Dance Theater | Band Orchestra Chorus | Dance Theater | Band Orchestra Chorus | Dance Theater | Design Capstone OR 4 th YR Elective OR Internship | -Bachelor's Degree in: Studio Production; Education; Professional Musician, Actor, or Dancer | -Professional Musician, Actor, or Dancer -Educator | |
| | Audio-Video Technology and Film | Ideal for the creative student that has a desire to design, produce, or write multimedia content. | Audio/Video Tech and Film I | | Audio/Video Tech and Film II | | Applications of Film Production | | Design Capstone OR 4 th YR Elective OR Internship | - Associates Degree (GA Film Academy) - Bachelor/Masters in Film/Journalism/News Media | -Directors, Producers, Content Creators (Social Media), or Journalists | |
| Personalized Course of Study | | Determined by student and academic advisor | | | | | | | | | | |

| Subject/Content Area | Academic Pathway | 9 th Grade | 10 th Grade | 11 th Grade | 12 th Grade |
|--|---|--|---|--|--|
| Language Arts (4 years of courses required for graduation) | Standard | Literature & Comp I | Literature & Comp II | 11 th Grade American Literature | Advanced Composition <u>OR</u> Dual Enrollment |
| | Advanced/AP Pathway | Honors Literature & Comp I | Honors Literature & Comp II or AP Seminar | AP Language & Composition <i>Optional addition course (AP Research)</i> | AP Literature & Composition <u>OR</u> Dual Enrollment |
| Math (4 years of courses required for graduation) | Standard | Algebra I | Geometry | Algebra II | Advanced Math Decision Making <u>OR</u> Precalculus <u>OR</u> Dual Enrollment |
| | Advanced | Geometry | Algebra II | Precalculus or AP Precalculus | AP Calculus AB, <u>OR</u> AP Statistics <u>OR</u> Dual Enrollment |
| | Accelerated/AP Pathway | Accelerated Geometry (Can Take AP Statistics Concurrently) | Enhanced Advanced Algebra and AP Precalculus | AP Calculus BC | Georgia Tech Calculus <u>OR</u> Differential Equations <u>OR</u> AP Statistics <u>OR</u> Dual Enrollment |
| Science (4 years of courses required for graduation) | Standard | Biology | Chemistry | Physics | 4 th Year Science Elective <u>OR</u> AP Science <u>OR</u> Dual Enrollment |
| | Advanced/AP Pathway | AP Biology | AP Chemistry | AP Physics 1 | AP Physics C, AP Chemistry, AP Environmental Science, AP Computer Science Principles <u>OR</u> Dual Enrollment |
| Social Studies (3 years of courses required for graduation) | Standard | Civic Engagement | World History | US History | Economics/American Government & Civics <u>OR</u> Dual Enrollment |
| | AP Pathway | AP Human Geography | AP World History | AP US History | AP Macroeconomics/AP American Government <u>OR</u> Dual Enrollment |
| World Language | Spanish, French | -Seckinger HS offers 4 years of Spanish and French on-campus. Students are recommended to take 3-4 years between middle and high school if applying to 4-year university. -It is highly recommended that students complete their World Language experience in consecutive years, including the transition from Middle School into High School. -Graduating seniors can achieve the Seal of Biliteracy, which recognizes a high level of proficiency in speaking, reading, and writing in one or more languages in addition to English. | | | |
| Physical Education | 1 year of Health and Physical Education is Required | Health and Personal Fitness | Optional Electives including Weight Training, Body Sculpting, Team Sports, and Recreational Games | | |



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|-----------------------------------|--|--|--------------------------------------|--------------------------------------|--|
| Fine Arts | See Art and Design School of Study | Fine Arts elective choices include courses in Band, Orchestra, Music Technology, Dance, Theater, and Visual Arts. Students are recommended to take 3-4 years if applying to 4-year university. In Georgia, high school students can achieve a Fine Arts Diploma Seal while completing a pathway in dance, music, theater/film, and/or visual art. The diploma seal is a signal that a student is prepared to participate in the creative economy. | | | |
| Career Technical Education | See Descriptions Listed in School of Study | Marketing Principles | Marketing & Entrepreneurship | Marketing Management | Work Based Learning |
| | | Audio/Video Tech and Film I | Audio/Video Tech and Film II | Applications of Film Production | Design Capstone OR 4 th YR Elective OR Internship |
| | | Intro to Software Technology and AP Computer Science Principles | AP Computer Science A or Game Design | Game Design or AP Computer Science A | Design Capstone OR 4 th YR Elective OR Internship |

- Graduation Requirements: Students must earn 23 credits in order to graduate. The breakdown for credits that must be earned is as follows:
4 Math credits, - 4 Science credits, 4 Language Arts credits, 3 Social Studies credits, Health + Personal Fitness, 3 electives within CTE/World Language/or Fine Arts, and 4 additional general electives
- The table above does not include course level designations such as College Prep, Honors, or Gifted. Those designations will be present on all course requests and schedules.
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