

Pathways to Global Citizenship

Degree Type

Specialty Programs

Pathways to Global Citizenship Program

The Pathways to Global Citizenship Program includes 5 academic pathways and 11 thematically grouped sequences. Academic pathways are intended to ensure that all students have a rigorous academic experience commensurate with their interests and academic goals. Each pathway encourages students to identify and engage with topics of global significance while developing and refining skills in performance, research, critical thinking, evaluation, and synthesis of ideas.

The goals of Pathways To Global Citizenship are to support students in:

- Identifying and engaging with topics of global significance;
- Developing skills in research, critical thinking, evaluation, or synthesis of ideas;
- Exploring academic interests; and
- Encouraging leadership and community involvement

The pathways/sequences below are open to all Gainesville High School students. Those denoted as transfer are the only ones available to students not zoned for Gainesville High school. Students interested in participating in a transfer program must follow the Specialty Program application process.

1. Language & Culture Pathway

- Writing and Communication
- Fine and Performing Arts
- World Language and Culture

2. Engineering, Math, & Automation Pathway

- *Engineering, Design, and Construction (Transfer Program)*
- Coding, Gaming, and Robotics
- *Mathematics (Transfer Program)*

3. Science, Health, & Medicine Pathway

- *Biomedical Sciences (Transfer Program)*
- Global Ecology
- Science

4. Social Science & Criminology Pathway

- History and Political Science
- Criminal Justice

5. Independent Studies & Scholarship Pathway

- Business and Marketing
- Health and Wellness
- Interdisciplinary (student proposed)

Program Type

Transfer

Schools

Gainesville High School

Gainesville High School Pathways To Global Citizenship Program Sequencing

Sample course selections are listed below. Each student will draft a plan with their counselor.

1. Language & Culture Pathway

Writing and Communication Sequence

Students studying in the Writing and Communication pathway will earn **four** credits within their concentration.

AP Seminar	Global Connections in Multicultural Literature
AP Research	An Introduction to Speech Communication
Creative Writing 1	Enrichment in Speech Communication
Creative Writing 2	Journalism 1
GEMS 11	Journalism 2
GEMS 12	Photo Journalism - Yearbook

Fine and Performing Arts Sequence

Students studying in the Fine and Performing Arts pathway will earn **four** credits within their concentration.

AP Studio Art 2D	Choir
AP Studio Art 3D Design	Theatre 1: Introduction to Theatre
Art 1 - Basic Foundations	Musical Theatre
Art 2	Orchestra
Art 3	Technical Theatre - Production
Art Portfolio Preparation	Theatre 3
Band	Theatre 4: Advanced Theatre

World Language and Culture Sequence

Students studying in the World Languages and Culture pathway will earn **six** credits within their concentration, including at least two at the Advanced Placement level.

AP European History	AP Seminar
AP Human Geography	AP World History
AP Research	Global Connections in Multicultural Literature

2. Engineering, Math & Automation Pathway

Engineering, Design, and Construction Transfer Program

Students studying in the Engineering, Design, and Construction pathway will earn **four** credits within their concentration. Students who apply to the Engineering, Design, and Construction Pathway will be required to take PLTW Engineering coursework in grades 9 and 10 prior to studying Building Trades in grades 11 and 12.

Civil Engineering and Architecture (PLTW)	Introduction to Engineering Design (PLTW)
Computer Integrated Manufacturing (PLTW)	PLTW Elective (11 th grade)
Construction (12 th grade)	Principles of Engineering (PLTW)
Engineering Drawing and Design	

Coding, Gaming, and Robotics Sequence

Students studying in the Coding, Gaming, and Robotics pathway will earn **four** credits within their concentration.

AP Computer Science A	Introduction to Engineering Design (PLTW)
AP Computer Science Principles	Principles of Engineering (PLTW)
Computer Information Systems	Programming
Advanced Computer Information Systems	Engineering Explorations
Game Design and Development	Robotics 2
Advanced Game Design and Development	

Mathematics Sequence

Students studying in the Mathematics pathway will earn **six** credits within their concentration, including at least two at the Advanced Placement level. Students who apply to the Mathematics Pathway should have completed Geometry in middle school.

AP Calculus AB	Multivariable Calculus (DE)
AP Calculus BC	GS Linear Algebra
AP Computer Science A	Pre-Calculus with Trigonometry for AB
AP Computer Science Principles	Pre-Calculus with Trigonometry for BC
AP Statistics	

3. Science, Health, & Medicine Pathway

Biomedical Sciences Sequence

Students studying in the Biomedical Sciences pathway will earn **four** credits within their concentration. Students will be required to study PLTW Biomedical Science coursework in grades 9 and 10.

AP Biology	Biomedical Innovation (PLTW)
AP Chemistry	Human Body Systems (PLTW)
AP Research	Medical Interventions (PLTW)
AP Seminar	Principles of Biomedical Science (PLTW)
Biology 2: Introduction to DNA Science and Biotechnology	

Global Ecology Sequence

Students studying in the Global Ecology pathway will earn **four** credits within their concentration.

AP Biology	AP Physics C: Mechanics
AP Chemistry	AP Research
AP Environmental Science	AP Seminar
AP Human Geography	Biology 2: Ecology
AP Physics 1	Earth Science 2: Oceanography
AP Physics 2	

Science Sequence

Students studying in the Science pathway will earn **six** credits within their concentration, including at least two at the Advanced Placement level.

AP Biology	AP Physics C: Mechanics
AP Chemistry	AP Research
AP Environmental Science	AP Seminar
AP Physics 1	Biology 2: Genetics

4. Social Science & Criminology Pathway

Criminal Justice Sequence

Students studying in the Criminal Justice pathway will earn **four** credits within their concentration.

Criminal Justice 1	Human Body Systems (PLTW)
Criminal Justice 2	Leadership Development 1, 2, & 3
AP Psychology	Principles of Biomedical Science (PLTW)
AP Research	Psychology 1
AP Seminar	Sociology
Biology 2: Survey of Microbiology and Forensics	

History and Political Science Sequence

Students studying in the History and Political Science pathway will earn **six** credits within their concentration, including at least two at the Advanced Placement level.

AP Economics	AP Seminar
AP European History	AP Government and Politics: U.S.
AP Human Geography	U.S. and Virginia History
AP Psychology	Psychology 1
AP Research	

5. Independent Studies & Scholarship Pathway

Business and Marketing Sequence

Students studying in the Business and Marketing pathway will earn **four** credits within their concentration.

Accounting	AP Seminar
Advanced Accounting	Business Management
AP Economics	Marketing
AP Research	Sports and Entertainment Management

Health and Wellness Sequence

Students studying in the Health and Wellness pathway will earn **four** credits within their concentration.

Personal Fitness	Nutrition and Wellness
Principles of Weight Training and Conditioning	Sports Medicine 1
AP Research	Sports Medicine 2
AP Seminar	

Pathways To Global Citizenship Transfer Program

Biomedical Sciences Transfer Program

Candidates will complete **four** courses within their concentration, allowing for the exploration of connections among science, wellness, and biomedical classes.

Grade	Course(s)
9	Principles of Biomedical Science (PLTW)
10	Biology 2: Introduction to DNA Science and Biotechnology
	Chemistry 2: Forensic Sciences and Chemical Analysis
	Human Body Systems (PLTW)
11	AP Biology
	AP Seminar
	Medical Interventions (PLTW)
12	AP Chemistry
	AP Research
	Biomedical Innovation (PLTW)

Engineering, Design, and Construction Transfer Program

Candidates will successfully complete **four** courses within a concentration allowing for the exploration of interrelated concepts required of engineers, mathematicians, or physicists.

Grade	Course(s)
9	Introduction to Engineering Design (PLTW)
10	Engineering Drawing and Design
	Principles of Engineering (PLTW)
11	Building Trades 1
	Civil Engineering and Architecture (PLTW)
	AP Seminar
12	Building Trades 2
	Engineering Design & Development (PLTW)
	AP Research

Mathematics Transfer Program

Candidates will successfully complete **six** courses within a concentration allowing for the exploration of interrelated concepts required of engineers, mathematicians, or physicists. At least two of the courses will be at the Advanced Placement level.

Grade	Course(s)
9	Pre-Calculus with Trigonometry for AB
	Pre-Calculus with Trigonometry for BC
	AP Computer Science Principles
10	AP Calculus AB
	AP Calculus BC
	AP Computer Science A
11	AP Statistics
	Multivariable Calculus (DE)
12	GS Linear Algebra
	AP Research