THE ACADEMIES AT
GREEN MOUNTAIN HIGH SCHOOL

www.gmhsrams.org

Family Guide 2022-2023

GREEN MOUNTAIN
HIGH SCHOOL

Dear students and families of Green Mountain HS,

Welcicome to Green Mountain High School!

Green Mountain High School is an award-winning, college and career-preparatory school with a distinguished track record for helping students realize their full potential. Since opening our doors in 1973, our leadership, staff and teachers have tirelessly worked together to cultivate a school environment anchored in academic and athletic excellence, social responsibility and student unity through community.

I encourage you to read on to learn more about one of our greatest distinctions and strengths, our **Academy Program**. Every student has the option to open-enroll into this program and take a series of interest-based and college-level curricula for advanced endorsements and a more ambitious high school education experience.

Students are able to opt in at any time, change pathways if they decide it isn't for them and complete multiple pathways in multiple academies throughout their high school career. We encourage students to look at the pathways in this document to see where their interests are, and then use it as a planning guide for choosing their classes each year during registration. Students will declare what pathways they have completed during the spring semester of their senior year and will be verified by a team of staff members. When a student has successfully completed a pathway, they will recieve a cord for that academy to wear at graduation.

If you have any questions, you can reach out to one of our Academy Coordinators at any time. Students will learn more about the program and do different activities throughout the school year during their RamTimes.

Jo Tiwari - Academy Coordinator - jtiwari@jeffcoschools.us
Becky Ketchum - Academy Coordinator - rketchum@jeffcoschools.us

Best regards,

Principal, Green Mountain HS

Pathways to your Future | Making a Difference

Green Mountain High School offers four Academies, each with 3-4 Pathways that guide a student's learning and define exactly what course requirements a student must fulfill in order to earn an Academy endorsement at graduation. **To be considered as Valedictorian or Salutatorian, you must complete at least one pathway and a Capstone project.**

Academy Programs were developed to purposely restructure large high schools into smaller learning communities and create viable pathways from high school to college to professional careers.

Interdisciplinary Studies Pathway

The Interdisiplinary Pathway is for any student who wants to try classes in all of the different Acadmies and Pathways, but doesn't have a specific one they want to complete. Students must complete 1.0 credits (1 full year or 2 semester classes) in each of the four Academies to complete this pathway.

Students who complete one or more pathways in any other academy are NOT eligible for this pathway.

Arts, Humanities, & Performing Arts Academy

The Arts, Humanities & Performing Arts Academy helps students learn about the various disciplines of languages, literature, visual and performing arts.

Pathways
- Film & Video Production
- Humanities
- Performing Arts
- Studio Art & Design

Business & Global Studies Academy

The Business & Global Studies Academy gives students a rigorous global perspective and understanding of international environments and markets.

Pathways

- Business, Marketing & Leadership
- Communications & Interactive Media
- Global Studies & International Relations

Health & Human Services Academy

The Health & Human Services Academy attracts students who are interested in health, wellness and serving humanity.

Pathways

- Biomedical & Health Science
- Human Services
- Sport & Exercise Science

STEM (Science, Technology, Engineering, & Math) Academy

The Science, Technology, Engineering & Math Academy helps students apply math and science concepts to solve problems and be future innovators.
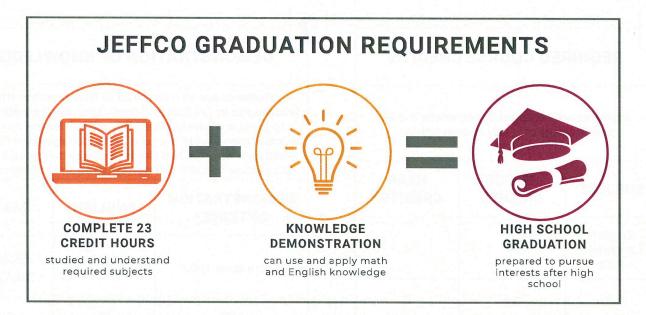
Pathways

- Computer Technology
- Engineering & Technology
- Energy, Earth & The Environment

YOUR ROAD MAP
to GRADUATION
and CAREER & COLLEGE READINESS

JEFFCO PUBLIC SCHOOLS

JEFFCO GRADUATION REQUIREMENTS

COMPLETE 23 CREDIT HOURS
studied and understand required subjects

+

KNOWLEDGE DEMONSTRATION
can use and apply math and English knowledge

=

HIGH SCHOOL GRADUATION
prepared to pursue interests after high school

Middle School	Grade 9	Grade 10	Grade 11	Grade 12

Explore options for after high school. Students talk with their families, teachers, and counselors about career and college interests, checking-in often as interests emerge and develop.

Select courses that reflect interests. Use the ICAP (Individual Career and Academic Plan) to connect academic achievement to career planning.

Begin demonstration options. Teachers and counselors support students in exploring paths that offer a good fit.

Demonstrations begin. Take SAT; can also take additional options.

Demonstrations completed.

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3 out of 4

JOBS REQUIRE EDUCATION OR TRAINING BEYOND HIGH SCHOOL.

Jeffco students graduating in and after 2021 must complete a minimum of 23 credit hours in required courses and demonstrate they know how to apply and use what they have learned in English and math to show college and career readiness.

With students, families, and schools working together, we can prepare students to succeed after high school no matter the career path they choose.

GRADUATION REQUIREMENTS

JEFFCO PUBLIC SCHOOLS

Students graduating in or after 2021 **must meet or exceed** the following graduation requirements to receive a high school diploma from Jefferson County Public Schools.

1 REQUIRED COURSE CREDITS

Students are required to complete the 23 credit hours of study shown below.

SUBJECT	JEFFCO CREDITS	HEAR CREDITS [a]
English Language Arts	4	4
Math	3 [b]	4
Science	3 [c]	3
Social Studies	3.5 [d]	3
Physical Education	0.5	None
Fine/Practical Arts	0.5	None
Additional Coursework	8.5	2
TOTAL	**23**	**N/A**

[a] Higher Education Admission Recommendations for Colorado public four-year colleges/universities; private colleges/universities set their own admission standards

[b] A minimum of algebra 1, geometry and one additional course at or above geometry

[c] Three credits must be lab-based and meet both process and content standards are required

[d] Geography, U.S. history, world history, U.S. government, economics

2 DEMONSTRATION OF KNOWLEDGE

Students are also required to demonstrate their knowledge in English and math to show they are ready to pursue a career after high school. Students may choose from a wide menu of tests, college-level courses, and new approaches like industry certifications and Capstone to fulfill the demonstration requirement.

DEMONSTRATION OPTIONS [a]	ENGLISH	MATH
Accuplacer Next	241/Reading, or 236 Writing	255/AR, or 230/QAS [b]
ACT	18	19
ACT Work Keys	Bronze	Bronze
Advanced Placement [c]	2	2
ASVAB	31	31
Concurrent Enrollment	Passing Grade	Passing Grade
International Baccalaureate [c]	4	4
SAT [d]	470	500
District Capstone	Individualized	Individualized
Industry Certificate	Individualized	Individualized
Performance Based Assessment (in development)	State Rubric	State Rubric

[a] Check with your school to learn which of the above options are offered

[b] Arithmetic (AR); Quantitative Reasoning, Algebra, and Statistics (QAS)

[c] Other demonstrations may be required if test scores come after deadline

[d] All students are required to take the SAT in their Junior year

Learn more at www.jeffcopublicschools.org

5

Graduation Requirements & Recognition

The Academy and Pathways to your Future program is a series of courses students must complete in addition to graduation requirements. While students are encouraged to enroll in the program, it is not a requirement for graduation from Green Mountain HS.

Requirements

All Jeffco students must complete 23 credits in order to receive a high school diploma. Students who participate in the Academy and Pathways to your Future program can receive additional endorsements and honors with their diploma at graduation.

Students can earn one of the following three Academy endorsements at graduation:

1. **Pathway Endorsement** (Colored cord according to pathway(s) completed)
   - Completion of course requirements for one Pathway
   - Students will recieve one cord per academy that they have completed a pathway in. Arts, Humanities and Performing Arts (AHP - Blue Cord), Business and Global Studies (BGS - Green), Health and Human Services (HHS - Red) and Science, Technology, Engineering and Math (STEM - Silver)

2. **Pathway Endorsement with Honors** (Honors Pin)
   - Completion of course requirements for one Pathway
   - Earn a 3.5 cumulative GPA or 2.0 additional coursework credits
   - Completion of a Capstone project (Capstone earns an Honors Pin)

3. **Renaissance Scholar Endorsement** (Black and Gold Braided Cord)
   - Completion of course requirements for at least three Pathways in three different Academies
   - Completion of a Capstone project (Capstone earns an Achievement Pin)

4. **STEM Endorsed Diploma** (Orange and Gold Braided Cord)

5. **Seal of Biliteracy** (Multicolored Cord)

*** To be considered as Valedictorian or Salutatorian, you must complete at least one pathway and an Academy or STEM Capstone project.***

Recognition

Students who complete one or more pathways will recieve the following distinctions at graduation in recognition for their achievements. Students will only get one cord per Academy - ex: if a student completes all three pathways in the Health and Human Services Pathway, they will only recieve one red cord to represent the pathways in that academy. Students will have all of the pathways they have completed added to their transcript.

Students who complete a program at Warren Tech can receive a pathway endorsement in the Academy their Warren Tech Program aligns to.

THE ACADEMIES AT
GREEN MOUNTAIN HIGH SCHOOL

Capstone Comparison

	Academy Capstone	STEM Capstone & STEM Endorsed Diploma
Description	Year-long, independent project, in-depth learning and exploration of a topic of student's choosing.	Year-long, independent project, in-depth learning and exploration into Engineering, Mathematics, Science, and/or Computer Science.
Honors and Accolades Earned	Required for Pathway Endorsement with Honors and Renaissance Scholar. Must be completed to be a valedictorian or salutatorian.	Stamped diploma recognized by CDE Opportunity to pass out of Cornerstone Design 1 at Colorado School of Mines.
Required courses OR prerequisites	None	4.0 STEM related credits beyond graduation requirements\n\nSee page 12 for specifics
Industry Mentor and/ or Field Work Required	Yes, with documentation of fieldwork hours and communication/work with a mentor	Yes, industry mentor and 40 hour internship
Public Presentation Required	Yes, Senior Boards presentation to a mix of community professionals	Yes, to professional STEM audience.
Research Paper Required	No. Students will write a Capstone reflection paper.	Yes
Community or Global Engagement required	No	Yes, project must address a known problem.
Academically Aligned	No, student choice	Yes, must align to a STEM field.
Product or Service Required	Yes, product can include a physical item or service to the community	Yes, prototype or scientific article and presentation.
Portfolio Required	Yes, Google site.	Yes, Google site

COLORADO STEM ENDORSED DIPLOMA

1

STEM COURSEWORK

Complete 4.0 STEM credits *in addition to* (3) math and (3) science courses required for graduation.

Examples include:
- Computer Science
- Engineering
- Electronics
- Agriculture and Natural Resources
- Additional Math credits
- Additional Science credits

See course guide for more information

2

HIGH MATH PROFICIENCY

Demonstrated by meeting or exceeding ONE of the following scores
(set by HB17-1201)

- 600+ Math SAT
- 28+ Math ACT
- 4+ Math AP test
- 5+ Math IB test
- 85+ ASVAB
- 280+ Accupalcer Next Gen Advanced Algebra and Functions

3

STEM CAPSTONE

Student developed culminating project that demonstrates mastery of STEM skills:

- Asking Questions and Defining Problems
- Applying Scientific and Mathematical Models to Explain Complex Ideas
- Planning and Carrying out Investigations
- Analyzing and Interpreting Data and Communicating Conclusions
- Using Mathematics and Computational Thinking
- Constructing Explanations and Designing Solutions
- Engaging in Argument from Evidence

JEFFCO PUBLIC SCHOOLS | STEM

World Language Criteria

Students must meet the criteria for **one** of the following options listed below:

Option 1 - School course offerings and a demonstration of oral proficiency.

Option 2 - An approved Nationally Recognized Exam. Languages Available are:

Arabic, Chinese, English, French, German, Hebrew, Hindi, Italian, Japanese, Korean, Latin, Polish, Portuguese, Russian, Spanish, Thai

Option 3 - Portfolio Submission

English Criteria

Students must complete English Language Arts graduation requirements with an average of 3.0 or higher *for those classes* **and one** of the following exams with the minimum score shown:

AAPPL ≥I3

ACT (English Section) **≥18**

AP English Language/Literature and Composition ≥ 3

IB English A, English Literature A, or English A1 ≥ 4

SAT (English Section) **≥ 470**

NGWR (Accuplacer) **246-300**

Who can earn a Seal of Biliteracy?

All students in every Jeffco school are eligible to earn a Seal of Biliteracy.

What is a Seal of Biliteracy?

A Seal of Biliteracy is a state and local school district recognition for graduating high school students who can demonstrate a high level of proficiency in at least one world language and English by high school graduation. The State of Colorado adopted the Seal of Biliteracy for High School Diplomas on March 30, 2017, setting the minimum criteria for districts to develop their own process and criteria. Jeffco is one of 32 Colorado districts that offer the seal, and the class of 2019 were the first Jeffco students to earn both the Colorado Seal of Biliteracy for High School Diplomas and the Jeffco Seal of Biliteracy.

Why is the Seal of Biliteracy important?

The Seal of Biliteracy is important because it will

- honor both the achievement of language acquisition and the heritage language, culture and experience students may already possess,
- encourage students to pursue the acquisition of another language or languages, and
- give future employers and post-secondary institutions definitive evidence of their language skills.

What is the process for earning a Seal of Biliteracy?

Interested students should contact their school's Seal of Biliteracy team to start the process and develop an action plan for meeting the criteria by high school graduation.

Candidates may be recognized at graduation. Final recipients will receive a certificate by mail in the fall. Updated transcripts will need to be requested and will reflect the languages the student can speak, read, write, and understand.

KEEPING THE MAIN THING THE MAIN THING: LEARNING

Academy Coordinators

GMHS has two Academy Coordinators who are the experts on the program. Feel free to reach out to them for specific questions.

GMHS Academy Coordinators

Becky Ketchum | rebecca.ketchum@jeffcoschools.us

Jo Tiwari | johanna.tiwari@jeffcoschools.us

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THE ACADEMIES AT
GREEN MOUNTAIN HIGH SCHOOL

www.gmhsrams.org

ACADEMIES & PATHWAYS

ACADEMIES & PATHWAYS

Interdisiplinary Studies (IDS)

The Interdisiplinary Studies Pathway is for students who want to explore all of the Academies at GMHS while figuring out what they want to do beyond high school. Students will take classes in all four of the Academies, while learning all of the skills to make them a well rounded student.

Students will complete 1.0 credits from each of the four Academies. Classes range from 1 semester [0.5] to 1 year [1.0]. This allows for students to explore the different elective classes GMHS has to offer to help them decide what they want to do once they graduate from high school.

Total Credits: 4.0

Arts, Humanities & Performing Arts
1.0 Credits

**Students are required to have 0.5 credits in Fine Arts (Fine Arts is defined as either either Visual or Performing Arts class) or Practical Arts (also know as any CTE class from any career cluster).

• Any Art Class [0.5]**
• Any Film/Video Class [0.5]
• Any Instumental Music Class [1.0]
• Any Vocal Music Class [1.0]
• Any Theatre Class [0.5]
• Any Publication Class [0.5]

Health & Human Services
1.0 Credits

***Students are required to have 0.5 Health or Physical Education to graduate. Students must take a Health Science class beyond this requirement.

• Any Health Science Class [0.5]***
• Any Physical Education Class [0.5]
• Educational Leadership [0.5]
• Early Childhood Education [0.5]

Business & Global Studies
1.0 Credits

• AMPED with Algebra [1.0]
• Any Business Class[0.5]
• Any Spanish Class [1.0]
• Any German Class [1.0]
• Sociology [0.5]
• Psychology or AP Psychology [0.5-1.0]

Science, Technology, Engineering & Math
1.0 Credits

• Any Engineering Class [0.5]
• Any Computer Science Class [1.0]
• 4th year of Math [1.0]
• 4th year of Science [1.0]
• Construction in Geometry

Arts, Humanities & Performing Arts Academy

Overview

In our 21st century world, creating connections between aesthetics and communication is increasingly in demand. The **Arts, Humanities & Performing Arts Academy (AHP)** encourages students to express their creativity through a variety of different mediums while exploring career options. The Arts, Humanities & Performing Arts Academy emphasizes creative problem solving, public performance, cultural enrichment, art appreciation, communication, and critical analysis.

Pathways

In the **Film & Video Production Pathway (FVP)**, students use various production technologies to bring their own stories to life through the art of filmmaking.

The **Humanities Pathway (HUM)** combines study of languages, literature art, music and philosophy to help students learn how to examine the common issues, ideas and themes that run throughout different cultures and human history.

The **Performing Arts Pathway (PA)** prepares students for further study in vocal music, instrumental music, and theater.

The **Studio Art & Design Pathway (A&D)** encourages students to explore a range of media including drawing, graphic design, painting, photography and print-making.

AHP Student Clubs & Activities

- Academy Leadership Student Team (ALST)
- Color Guard
- Colorado Student Media Association
- Destination Imagination
- Event Planning Committee (EPC)
- Fall Play
- Green Mountain Thespian Troupe
- Gender Sexuality Alliance (GSA)
- IDEA Club
- Marching Band
- Mock Trial
- National Art Honor Society (NAHS)
- National Honor Society (NHS)
- Newspaper (The RamPage)
- Ram Council
- Spring Musical
- Technology Student Association (TSA)
- Winter Guard

A
H
P

Art, Humanities & Performing Arts
Student Pathway Worksheet

Course credits are accounted for once, regardless of when the course is taken, be it in Foundations or Supporting requirements.

4.0 Credits are required for this pathway. 1.0 credit = 1 year long class and 0.5 credit = 1 semester long class.

Foundations Requirements | 1.5 Credits
Courses can only be used once in either Foundation or Supporting.

Example For Film & Video Production Pathway:

Broadcasting 1st Semester (0.5) _____

Broadcasting 2nd Semester (0.5) _____

Audio/Video Production 1 (0.5) _____

Total Foundations: 1.5

Supporting Requirements | 2.5 Credits

Television Production 1st Semester (0.5) _____

Television Production 2nd Semester (0.5) _____

Intro to Business 1st Semester (0.5) _____

Drama Performance A 2nd Semester (0.5) _____

_____

Total Supporting: 2.5

FVP Pathway Total: 4.0 credits

Foundations Requirements | 1.5 Credits
Fill in your courses below like the example to the left.
Courses can only be used once in either Foundation or Supporting.

_____

_____

_____

Total Foundations: _____

Supporting Requirements | 2.5 Credits

_____

_____

_____

_____

_____

_____

Total Supporting: _____

Pathway Total: _____

Film & Video Production (FVP)

The Film & Video Production Pathway is a comprehensive look at film and video production. Students learn about the various stages of film, including pre-production, production and post-production while learning the skills to create their own reel.

To be considered as Valedictorian or Salutatorian, you must complete at least one pathway and a Capstone project.

* Recommended for advanced or GT students | ‡ Dual credit option | Course credits are accounted for once, regardless of when the course is taken, be it in Foundations, Supporting or Related requirements.

4.0 Credits are required for this pathway. 1.0 credit = 1 year long class and 0.5 credit = 1 semester long class.

Potential Majors
- 3D Graphics & Animation
- Animation & Digital Arts
- Art Direction & Production Design
- Entertainment
- Film & Television Production (B.A. or B.F.A)
- Interactive Media
- Visual & Performing Arts

Related Careers
- Animaton
- Broadcast Journalist
- Cinematographer
- Director
- Editor
- Graphic Animator
- Graphic Designer
- Producer
- Professional Actor
- Screenwriter
- Special Effects Technician
- Stuntman
- Technical Production

Clubs and Activities
- Academy Leadership Student Team (ALST)
- Colorado Student Media Association
- National Honor Society
- Ram Council
- Event Planning Committee (EPC)
- Green Mountain Thespian Troupe
- National Art Honor Society (NAHS)
- Technology Student Association (TSA)
- SkillsUSA
- Jeffco Film Club

Foundations Requirements | 1.5 Credits
Courses can only be used once in either Foundation or Supporting

Classes may not be offered every semester or year

- Audio/Video Production I [0.5]
- Audio/Video Production II [0.5] ‡
- Broadcast Production (Broadcasting Technology) [1.0]
- Filmmaking (Audio/Video Production III) [0.5]
- Film Studies [0.5]
- Television Production [1.0]

Supporting Requirements | 2.5 Credits
Courses can only be used once in either Foundation or Supporting

Classes may not be offered every semester or year

- Academy Capstone
- Audio/Video Production I [0.5]
- Audio/Video Production II [0.5] ‡
- Broadcast Production (Broadcasting Technology) [1.0]
- Capstone: Digital Media & Communication [0.5]
- Commercial Photography I or II [0.5]
- Filmmaking (Audio/Video Production III) [0.5]
- Film Studies [0.5]
- Graphic Design & Illustration I (Intro to Graphic Design) [0.5] ‡
- Introduction to Business [0.5] • Marketing Principles [0.5]
- Performing & Communications A (Drama - Acting/ Performance) [0.5]
- Photography (Intro - Adv.) [0.5] ‡
- Public Speaking [0.5]
- Technical Theatre A (Stagecraft) [1.0]
- Television Production [1.0]

Humanities (HUM)

Students in the Humanities Pathway take a multidisciplinary approach to education. The Pathway combines study of languages, literature, art, music, and philosophy to teach students how to examine the common issues, ideas, and themes that run throughout different cultures and human history. Students gain the ability to reason critically, communicate effectively, and make connections across broad fields of knowledge.

To be considered as Valedictorian or Salutatorian, you must complete at least one pathway and a Capstone project.

* Recommended for advanced or GT students | ‡ Dual credit option | Course credits are accounted for once, regardless of when the course is taken, be it in Foundations, Supporting or Related requirements.

4.0 Credits are required for this pathway. 1.0 credit = 1 year long class and 0.5 credit = 1 semester long class.

Potential Majors

- Art History
- Creative Writing
- Film
- History
- Humanistic Studies
- Journalism
- Languages
- Liberal Arts
- Media
- Music
- Public Relations
- Psychology
- Religion
- Social Science

Related Careers

- Artist
- Curator
- Editor
- Historian
- Journalist
- Judge
- Lawyer
- Librarian
- Researcher
- Speech Writer
- Teacher
- Technical Writer
- Writer/Author

Clubs and Activities

- Academy Leadership Student Team (ALST)
- National Honor Society
- Ram Council
- Event Planning Committee (EPC)
- Green Mountain Thespian Troupe
- National Art Honor Society (NAHS)
- Technology Student Association (TSA)

Foundations Requirements | 1.5 Credit
Courses can only be used once in either Foundation or Supporting.

Classes may not be offered every semester or year

- AP European History [1.0] *‡
- AP Human Geography [1.0]
- AP Language & Composition [1.0] *‡
- AP US History [1.0] *‡
- Film Studies [0.5]
- History of Rock & Roll [0.5]
- Intermediate English 1 or 2 [1.0]
- Newcomer Academy [max 2.0]
- Philosophy [0.5]*
- Psychology [0.5]
- Public Speaking [0.5]
- Sociology [0.5]
- World Language Level III [1.0]

Supporting Requirements | 2.5 Credits
Classes may not be offered every semester or year

- AP European History [1.0] *‡
- AP Language & Composition [1.0] *‡
- AP Literature & Composition [1.0] *
- AP Macroeconomics [0.5] *‡
- AP Psychology [1.0] *‡
- AP US History [1.0] *‡
- Academy Capstone [0.5]
- Any Art class [0.5]
- Any Music class [0.5]
- Any Theatre Class [0.5]
- Educational Leadership [0.5]
- Early Childhood Education [0.5]
- Internship [0.5]**
- Intro to Ethical Reasoning [1.0]*‡
- Leadership [0.5]
- Legal Environment of Business (Business Law) [0.5]
- Newcomer Academy [max 2.0]
- Psychology [0.5]
- Philosophy [0.5]*
- Print Media I (Yearbook) [1.0]
- Public Speaking [0.5] ✠
- Reporting (Journalism) [0.5]
- Sociology [0.5]
- Statistics (AP or CU Succeeds) [1.0]

Performing Arts (PA)

The Performing Arts Pathway is for students who are interested in performance such as singing, playing an instrument or acting. The Pathway allows students to specialize in either vocal music or instrumental music, theater or a combination of disciplines.

To be considered as Valedictorian or Salutatorian, you must complete at least one pathway and a Capstone project.
* Recommended for advanced or GT students | ‡ Dual credit option | Course credits are accounted for once, regardless of when the course is taken, be it in Foundations, Supporting or Related requirements.

4.0 Credits are required for this pathway. 1.0 credit = 1 year long class and 0.5 credit = 1 semester long class.

Potential Majors

- Dance/Movement Therapy [Theater]
- Music Composition [Music]
- Music Performance [Music]
- Music Recording [Music]
- Technical Theater [Theater]
- Visual & Performing Arts [Theater]

Related Careers

- Choral Director [Music]
- Composer [Music]
- Director [Theater]
- Producer [Theater]
- Professional Actor [Theater]
- Professional Performer [Music]

Clubs and Activities

- Academy Leadership Student Team (ALST)
- National Honor Society
- Ram Council
- Event Planning Committee (EPC)
- National Art Honor Society (NAHS)
- Technology Student Association (TSA)

Foundations Requirements | 1.5 Credits
Courses can only be used once in either Foundation, Supporting or Related

Classes may not be offered every semester or year

- Chamber Orchestra [1.0] *
- Concert Band [1.0]
- Guitar [0.5]
- Images - Advanced Women's Choir [1.0] *
- Instrumental Ensemble [1.0]
- Jazz Band [1.0] *
- Performing & Communications A (Drama - Acting/Performance) [0.5]
- Performing & Communications B (Drama - Acting/Performance Int.) [0.5]
- Percussion [1.0]
- Shadows - Advanced Mixed Choir [1.0] *
- String Orchestra [1.0]
- Symphonic Band [1.0]
- Technical Theatre A (Drama - Stagecraft) [1.0]
- Technical Theatre B (Drama - Stagecraft Adv) [1.0]
- Wind Ensemble [1.0]
- Women's Choir/Men's Choir [1.0]

Supporting Requirements | 2.5 Credits
Courses can only be used once in either Foundation, Supporting or Related

Classes may not be offered every semester or year

- Academy Capstone [0.5]
- Any choir course (for instrumental-focused students) [1.0 max]
- Any instrumental music course (for vocal-focused students)[1.0 max]
- Any theater course
- AP Music Theory [1.0]*‡
- Audio/Video Production I [0.5]
- Broadcast Production (Broadcasting Technology) [1.0]
- Capstone: Directing, Acting/Performance, or Theatre [0.5]
- Dance Technique [0.5]
- Directing [0.5]
- Guitar [0.5]
- History of Rock & Roll [0.5]
- Internship [0.5]
- Jazz Band [1.0] *
- Marching Band [1.0]
- Psychology [0.5]
- Public Speaking [0.5]

Studio Art & Design (A&D)

The Studio Art & Design Pathway encourages students to explore a range of media including drawing, graphic design, painting, photography and printmaking within a wide variety of Art classes. Students will also have the opportunity to engage more deeply in at least one or more of these media areas.

To be considered as Valedictorian or Salutatorian, you must complete at least one pathway and a Capstone project.

* Recommended for advanced or GT students | ‡ Dual credit option | Course credits are accounted for once, regardless of when the course is taken, be it in Foundations, Supporting or Related requirements.

4.0 Credits are required for this pathway. 1.0 credit = 1 year long class and 0.5 credit = 1 semester long class.

Potential Majors

- Animation
- Architecture
- Art Education
- Art Therapy
- Arts Management
- Fine Arts
- Game Design
- Illustration
- Multimedia & Graphic Design
- Photography
- Printmaking
- Visual Communications

Related Careers

- Animator
- Ceramicist
- Curator
- Fashion Designer
- Fine Artist
- Graphic Artist
- Illustrator
- Interior Designer
- Jeweler
- Multimedia Artist
- Muralist
- Painter
- Photographer
- Sculptor

Clubs and Activities

- Academy Leadership Student Team (ALST)
- National Honor Society
- Ram Council
- Event Planning Committee (EPC)
- National Art Honor Society (NAHS)
- Technology Student Association (TSA)

Foundations Requirements | 1.5 Credits
Courses can only be used once in either Foundation or Supporting

Classes may not be offered every semester or year

- Commercial Photography I (Digital Photography/Photography) [0.5]
- Commercial Photography II (Digital Photography/Photography Int) [0.5]
- Practicum in Commercial Photography (Digital Photography/Photography Adv)
- Drawing (Intro-Studio) [0.5-2.0]
Graphic Design & Illustration I (Graphic Design) [0.5] ‡
- Graphic Design & Illustration II (Graphic Design Int.) [0.5] ‡
- Practicum: Graphic Design & Illustration (Graphic Design Adv) [0.5]‡
- Painting (Intro-Studio) [0.5-2.0]
- Photography [0.5]
- Photography Int. [0.5]
- Printmaking [0.5]

Supporting Requirements | 2.5 Credits
Classes may not be offered every semester or year

- Academy Capstone [0.5]
- AMPED [1.0]
- AP 2D Art [1.0] *‡
- Audio/Video Production I [0.5]
- Capstone: Design/Multimedia Art [0.5]
- Coding I (Intro to Computer Science) [0.5]
- Engineering 1 [0.5]
- Geometry in Construction [1.0]
- Internship [0.5]**
- Intro to Business [0.5] ‡
- Intro-Studio in a different medium from above [0.5-2.0]
- Performing & Communications A (Drama - Acting/Performance) [0.5]
- Principles of Marketing [0.5]
- Print Media I (Yearbook) [1.0]

Business & Global Studies Academy

In a world where global commerce and politics have emerged as driving forces, the **Business & Global Studies Academy (BGS)** offers students a thorough education in international issues while preparing them for global careers. The Business & Global Studies Academy includes coursework in world languages, history, geography, business, economics and sociology. This Academy emphasizes cultural literacy, economic understanding, business fundamentals, interpersonal skills, employability, ethics, and leadership.

Pathways

- **The Business, Marketing & Leadership Pathway (BML)** provides students with practical experience and opportunities in leadership in the business, government, and nonprofit worlds.

- **The Communications & Interactive Media Pathway (CIM)** explores the impact of various forms of communication and the world through e-Media.

- **The Global Studies & International Relations Pathway (GSI)** investigates and explores the processes and impact of globalization, governance, and local concerns versus international influence.

BGS Student Clubs & Activities

- Academy Leadership Student Team (ALST)
- DECA
- Event Planning Committee (EPC)
- IDEA Club
- Mock Trial
- National Honor Society (NHS)
- Skills USA
- Ram Council

Course credits are accounted for once, regardless of when the course is taken, be it in Foundations or Supporting requirements.

4.0 Credits are required for this pathway. 1.0 credit = 1 year long class and 0.5 credit = 1 semester long class.

Foundations Requirements | 1.5 Credits

Courses can only be used once in either Foundation or Supporting.

Example For Business, Marketing & Leadership Pathway:

Intro to Business (0.5)

Event Marketing/Communication (0.5)

Principles of Marketing (0.5)

Supporting Requirements | 2.5 Credits

Spanish III 1st Semester (0.5)

Spanish III 2nd Semester (0.5)

Intro to Business 1st Semester (0.5)

Legal Environment of Business 2nd Semester (0.5)

Total Supporting: 2.5

BML Pathway Total: 4.0 credits

Foundations Requirements | 1.5 Credits

Fill in your courses below like the example to the left.

Courses can only be used once in either Foundation or Supporting.

_____

_____

_____

Total Foundations:_____

Supporting Requirements | 2.5 Credits

_____

_____

_____

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Total Supporting:

Pathway Total:

Business Marketing & Leadership (BML)

The Business Marketing & Leadership Pathway provides students with practical experience and leadership opportunities in business, government and nonprofit. Business Marketing & Leadership students build resumes, learn through project-based activities, participate in related capstone experiences, explore business, marketing and leadership fields through career shadows and develop business relationships with the potential of finding internships.

To be considered as Valedictorian or Salutatorian, you must complete at least one pathway and a Capstone project.

* Recommended for advanced or GT students | ‡ Dual credit option | Course credits are accounted for once, regardless of when the course is taken, be it in Foundations, Supporting or Related requirements.

4.0 Credits are required for this pathway. 1.0 credit = 1 year long class and 0.5 credit = 1 semester long class.

Potential Majors

- Accounting
- Business
- Business Law
- Communications
- Criminal Justice
- E-Commerce & Marketing
- Economics
- Finance
- Foreign Service
- Human Resources
- Journalism, E-Media & Multimedia
- Marketing & Advertising
- Public & Non-profit Administration
- Public Relations

Related Careers

- Advertising
- Game Designer
- Graphic Designer
- Marketing
- Public Relations
- Radio Operator
- Real Estate
- Reporter
- Sales
- Travel/Tourism
- Web Designer

Clubs and Activities

- Academy Leadership Student Team (ALST)
- National Honor Society
- DECA
- Ram Athletic Leadership Team (RALT)
- Event Planning Committee (EPC)
- Ram Council

Foundations Requirements | 1.5 Credits
Courses can only be used once in either Foundation or Supporting

Classes may not be offered every semester or year

- AMPED [1.0]
- Construction Management [1.0]
- Event Marketing/Communication (Sports & Entertainment Marketing) [0.5]
- Intro to Business [0.5] ‡
- International Business [0.5]
- Legal Environment of Business (Business Law) [0.5]
- Marketing-Advanced [0.5]
- Marketing-Workplace Experience [0.5]
- Principles of Marketing (Marketing Principles) [0.5]
- Project Management in Organizations (Business Leadership) [1.0]
- Public Speaking [0.5]
- Strategic Marketing (Marketing-Strategies) [0.5]

Supporting Requirements | 2.5 Credits
Classes may not be offered every semester or year

- Academy Capstone [0.5]
- AMPED [1.0]
- AP Macroeconomics [0.5] *‡
- AP Psychology [1.0] *‡ or Psychology [0.5]
- Capstone: Business/Marketing [0.5]
- Construction Management [1.0]
- International Business [0.5]
- Internship [0.5]
- Leadership [0.5]
- Newspaper [0.5]
- Project Management in Action [0.5]
- Project Management in Organizations (Business Leadership) [1.0]
- Public Speaking [0.5]
- Reporting (Journalism) [0.5]
- Sociology [0.5]
- Statistics (AP or CU Succeeds) [1.0]
- World Language 3rd year (or Honors) [1.0] *

Business & Global Studies Academy

Communications & Interactive Media (CIM)

The Communications & Global e-Media Pathway explores the impact of various forms of communication and the world through e-Media, with a strong foundation in mass media, production techniques and experiences and real-time communication tools. Specific projects and internships provide students with valuable experiences and empower them to enter the workforce with 21st century communications skills and pursue further areas in the communications industry.

To be considered as Valedictorian or Salutatorian, you must complete at least one pathway and a Capstone project.

* Recommended for advanced or GT students | ‡ Dual credit option | Course credits are accounted for once, regardless of when the course is taken, be it in Foundations, Supporting or Related requirements.

4.0 Credits are required for this pathway. 1.0 credit = 1 year long class and 0.5 credit = 1 semester long class.

Potential Majors

- Business & Finance
- Communications
- E-Commerce
- Journalism
- Marketing & Research
- Multimedia
- Public Relations
- Social Networking
- Web Design

Related Careers

- Advertising
- Game Designer
- Graphic Designer
- Marketing
- Public Relations
- Radio Operator
- Real Estate
- Reporter
- Sales
- Travel/Tourism
- Web Designer

Clubs and Activities

- Academy Leadership Student Team
- National Honor Society
- DECA
- Ram Athletic Leadership Team
- Event Planning Committee
- Ram Council

Foundations Requirements | 1.5 credit
Courses can only be used once in either Foundation or Supporting

Classes may not be offered every semester or year
• Audio/Video Production I [0.5]
• Broadcast Production (Broadcasting Technology) [1.0]
• Coding I (Intro to Computer Science) [0.5]
• Graphic Design & Illustration I (Graphic Design) [0.5] ‡
• International Business [0.5]
• Intro to Business [0.5] ‡
• Public Speaking [0.5]

Supporting Requirements | 2.5 Credits
Courses can only be used once in either Foundation or Supporting

Classes may not be offered every semester or year

• Academy Capstone [0.5]
• AMPED [1.0]
• AP Computer Science Principles [1.0] ‡ OR AP Computer Science A [1.0] *‡
• AP Psychology [1.0] *‡ OR Psychology [0.5]
• Broadcast Production (Broadcasting Technology) [1.0]
• Coding I (Intro to Computer Science) [0.5]
• Graphic Design & Illustration I (Graphic Design) [0.5] ‡
• International Business/Marketing [0.5]
• Internship [0.5]
• Intro to Business [0.5] ‡
• Legal Environment of Business (Business Law) [0.5]
• Newspaper [0.5]
• Principles of Marketing (Marketing Principles) [0.5]
• Print Media I (Yearbook) [1.0]
• Project Management in Organizations (Business Leadership) [1.0]
• Public Speaking [0.5]
• Reporting (Journalism) [0.5]
• Statistics (AP or CU Succeeds) [1.0]
• World Language II or III Honors [1.0] *

22

Global Studies & International Relations (GSI)

The Global Studies & International Relations Pathway investigates and explores the processes and impact of globalization, governance, local concerns versus international influence, cultural issues, societal topics, conflict negotiations, global perspectives, nonprofit organizations, and international markets.

To be considered as Valedictorian or Salutatorian, you must complete at least one pathway and a Capstone project.

* Recommended for advanced or GT students | ‡ Dual credit option | Course credits are accounted for once, regardless of when the course is taken, be it in Foundations, Supporting or Related requirements.

4.0 Credits are required for this pathway. 1.0 credit = 1 year long class and 0.5 credit = 1 semester long class.

Potential Majors

- Multimedia
- Marketing & Research
- Public Relations
- Web Design
- E-Commerce
- Business & Finance
- Communications
- Social Networking
- Journalism

Related Careers

- Marketing
- Web Designer
- Advertising
- Graphic Designer
- Public Relations
- Reporter
- Real Estate
- Sales
- Travel/Tourism
- Game Designer
- Radio Operator

Clubs and Activities

- Academy Leadership Student Team
- National Honor Society
- DECA
- Ram Athletic Leadership Team
- Event Planning Committee
- Ram Council

Foundations Requirements | 1.5 Credits
Courses can only be used once in either Foundation or Supporting

Classes may not be offered every semester or year

- Intro to Business [0.5]
- International Business/Marketing [0.5]
- World Language Level III or IV (or Honors) [1.0]*
- AP European History [1.0] *‡
- AP Government [0.5] *‡
- AP Human Geography [1.0]
- AP Macroeconomics [0.5] *‡

Supporting Requirements | 2.5 Credits

- Academy Capstone [0.5]
- AP Language & Composition [1.0] *‡
- AP Literature & Composition [1.0] *‡
- Coding I (Intro to Computer Science) [0.5]
- Early Childhood Education [0.5]
- Educational Leadership [0.5]
- International Business/Marketing [0.5]
- Internship [0.5]
- Intro to Business [0.5] ‡
- Legal Environment of Business (Business Law) [0.5]
- Reporting (Journalism) [0.5]
- Project Management in Organizations (Business Leadership) [1.0]
- Psychology [0.5] or AP Psychology [1.0] *‡
- Public Speaking [0.5]
- Sociology [0.5]
- World Language Level IV or AP [1.0]*

Completing the Seal of Biliteracy automatically grants a student this pathway.

Health & Human Services Academy

The world's ever-changing population is experiencing an increase in life expectancy. These concerns are shaping practices in the medical field, in the environment, and the care of our growing population of elderly and youth. The **Health & Human Services Academy (HHS)** attracts students who are interested in health, wellness, and serving the human population for a better tomorrow. This Academy emphasizes skills in problem solving, critical thinking, communications, team work, service learning and leadership.

Pathways

- In the **Biomedical & Health Science Pathway (MED)** students gain knowledge and experience in various medical and health careers.

- The **Sports & Exercise Science Pathway (SES)** is for students interested in health-related careers that require a good understanding of the human body, nutrition, wellness and medicine.

- The **Human Services Pathway (HUS)** covers a wide variety of careers that require specific certification, licensure and/or apprenticeship within the industry.

HHS Student Clubs & Activities

- Academy Leadership Student Team (ALST)
- Event Planning Committee (EPC)
- Gender Sexuality Alliance (GSA)
- Health Occupation Student Organization (HOSA)
- Mountain Bike Team
- National Honor Society (NHS)

- Ram Athletic Leadership Team (RALT)
- Ram Council
- Sources of Strength
- Special Olympics/ Unified Basketball

Course credits are accounted for once, regardless of when the course is taken, be it in Foundations or Supporting requirements.

4.0 Credits are required for this pathway. 1.0 credit = 1 year long class and 0.5 credit = 1 semester long class.

Foundations Requirements | 1.5 Credits
Courses can only be used once in either Foundation or Supporting.

Example For Biomedical & Health Science Pathway:

Honors Anatomy 1st Semester (0.5)
Honors Anatomy 2nd Semester (0.5)
Health Science 1st Semester (0.5)

Supporting Requirements | 2.5 Credits

Sports & Exercise Science 2nd Semester (0.5)
Biotech 1st Semester (0.5)
Medical Forensic Science 1st Semester (0.5)
AP Chemistry 1st Semester (0.5)

Total Supporting: 2.0

BML Pathway Total: 4.0 credits

Foundations Requirements | 1.5 Credits
Fill in your courses below like the example to the left.
Courses can only be used once in either Foundation or Supporting.

_____

_____

_____

Total Foundations:_____

Supporting Requirements | 2.5 Credits

_____

_____

_____

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_____

_____

Total Supporting:

Pathway Total:

Biomedical & Health Science (MED)

The Biomedical & Health Science Pathway offers its students' knowledge and experience in various medical and health careers. The MED Pathway is geared towards careers in both the biomedical engineering and the medical/health field. Students are given the opportunity to participate in organ dissection, DNA testing, Basic Life Support for Health Professionals, clinical testing, engineering and investigative forensic sciences.

To be considered as Valedictorian or Salutatorian, you must complete at least one pathway and a Capstone project.

* Recommended for advanced or GT students | ‡ Dual credit option | Course credits are accounted for once, regardless of when the course is taken, be it in Foundations, Supporting or Related requirements.

4.0 Credits are required for this pathway. 1.0 credit = 1 year long class and 0.5 credit = 1 semester long class.

Potential Majors

- Chiropractic Medicine
- Dentistry
- Health Care Studies
- Medicine
- Nursing
- Optometry
- Pharmacy
- Physical Therapy
- Podiatry
- Radiology
- Veterinary Medicine

Related Careers

- Allopathic Medical Support
- Alternative Medicine Services
- Biotechnology Research & Development
- Counselor
- Dental Assistant
- Diagnostic Services
- Health Occupations & Therapeutic Services
- Medical Support Services
- Physical Therapist

Clubs and Activities

- Academy Leadership Student Team
- Event Planning Committee (EPC)
- Ram Council
- Health Occupation Student Organization (HOSA)
- Ram Athletic Leadership Team (RALT)
- Technology Student Association (TSA)

Foundations Requirements | 1.5 Credits
Courses can only be used once in either Foundation or Supporting

Classes may not be offered every semester or year

- Anatomy and Physiology [1.0]
- Anatomy Honors (Formerly Med Prep) [1.0]
- Biotech [1.0]
- Medical Forensic Science [0.5]
- Pharmacy Technician [0.5]
- Sports & Exercise Science [0.5]

Supporting Requirements | 2.5 Credits
Classes may not be offered every semester or year

- Academy Capstone [0.5]
- Anatomy & Physiology [1.0]
- Any STEM Elective [0.5]
- AP Chemistry, Honors Chemistry or Chemistry [1.0] *‡
- AP Physics or Physics [1.0]
- AP Psychology [1.0] *‡
- Biotech [0.5]
- Capstone: Health [0.5]
- Health Education [0.5]
- Honor's Anatomy (Formerly Med Prep) [1.0]
- Internship [0.5]
- Medical Forensic Science [0.5]
- Pharmacy Technician [0.5]
- Safety & First Aid [0.5]
- Statistics (AP or CU Succeeds) [1.0]

Health & Human Services Academy

Human Services (HUS)

The Human Services Pathway focuses on meeting human needs through prevention, remediation of current issues in the community, and maintaining a commitment to improving the overall quality of life. The Pathway covers a wide variety of careers that require specific certifications, licensures, and/or apprenticeships within the human services industry.

To be considered as Valedictorian or Salutatorian, you must complete at least one pathway and a Capstone project.

* Recommended for advanced or GT students | ‡ Dual credit option | Course credits are accounted for once, regardless of when the course is taken, be it in Foundations, Supporting or Related requirements.

4.0 Credits are required for this pathway. 1.0 credit = 1 year long class and 0.5 credit = 1 semester long class.

Potential Majors
- Criminology
- Culinary Arts
- Education
- Fire Science
- Public Relations
- Public Safety
- Social Science

Related Careers
- Administrator
- Child Welfare
- Cook/Chef
- Corrections Services
- Counseling
- Education & Educational Administration
- Elderly Services
- Emergency & Fire Management Services
- Health, Safety & Environmental
- Law Enforcement Services
- Personal Home Healthcare

Clubs and Activities
- Academy Leadership Student Team
- Event Planning Committee (EPC)
- Ram Council
- Gender Sexuality Alliance (GSA)
- Health Occupation Student Organization (HOSA)
- Ram Athletic Leadership Team (RALT)
- Technology Student Association (TSA)

Foundations Requirements | 1.5 Credits
Courses can only be used once in either Foundation or Supporting

Classes may not be offered every semester or year

- Anatomy & Physiology [1.0]
- AP Psychology [1.0]
- Biotech [0.5]
- Early Childhood Education {0.5}
- Educational Leadership [0.5]
- Health Education [0.5]
- Honor's Anatomy (Formerly Med Prep) [1.0]
- Medical Forensic Science [0.5]
- Pharmacy Technician [0.5]
- Psychology [0.5]
- Safety & First Aid [0.5]
- Sociology [0.5]

Supporting Requirements | 2.5 Credits
Courses can only be used once in either Foundation or Supporting

Classes may not be offered every semester or year

- Academy Capstone [0.5]
- AP Psychology [1.0]
- Anatomy & Physiology [1.0]
- Biotech [0.5]
- Capstone: Health [0.5]
- **Completion of a Warren Tech Program to complete all credits for this Pathway**
- Early Childhood Education [0.5]
- Educational Leadership [0.5]
- Elementary Tutor [0.5]
- Health Education [0.5]
- Honor's Anatomy (Formerly Med Prep) [1.0]
- Internship [0.5]
- Medical Forensic Science [0.5]
- Outdoor Ed Lab Leader (On Transcript) [0.5]
- Project Management in Organizations (Business Leadership) [1.0]
- Psychology [0.5]
- Safety & First Aid [0.5]
- Sociology [0.5]
- Statistics (CU Succeed) [0.5] *‡
- World Language (Level II-AP) [1.0]*(only 1 year can be used)

Sports & Exercise Science (SES)

The Sports & Exercise Science Pathway helps students develop a good understanding of the human body, nutrition, wellness and medicine. Students are given the opportunity to participate in sports specific classes, general fitness, CPR, First Aid, sports related psychology and general sports medicine.

To be considered as Valedictorian or Salutatorian, you must complete at least one pathway and a Capstone project.

* Recommended for advanced or GT students | ‡ Dual credit option | Course credits are accounted for once, regardless of when the course is taken, be it in Foundations, Supporting or Related requirements.

4.0 Credits are required for this pathway. 1.0 credit = 1 year long class and 0.5 credit = 1 semester long class.

Potential Majors
- Chiropractic Medicine
- Dentistry
- Health Care Studies
- Medicine
- Nursing
- Optometry
- Pharmacy
- Physical Therapy
- Podiatry
- Radiology
- Veterinary Medicine

Related Careers
- Alternative Medicine Services
- Athletic Trainer
- Biotechnology Research & Development
- Counselor
- Dental Assistant
- Diagnostic Services
- Health Occupations & Therapeutic Services
- Medical Support Services
- Nutritionist
- Personal Trainer
- Physical Therapist

Clubs and Activities
- Academy Leadership Student Team
- Event Planning Committee (EPC)
- Ram Council
- Health Occupation Student Organization (HOSA)
- Ram Athletic Leadership Team (RALT)
- Technology Student Association (TSA)

Foundation Requirements | 1.5 Credits
Courses can only be used once in either Foundation or Supporting

Classes may not be offered every semester or year

- Anatomy & Physiology [1.0]
- Health Education [0.5]
- Honor's Anatomy (Formerly Med Prep) [1.0]
- Safety & First Aid [0.5]
- Sports & Exercise Science [0.5]

Supporting Requirements | 2.5 Credits
Courses can only be used once in either Foundation or Supporting

Classes may not be offered every semester or year

- Academy Capstone [0.5]
- Anatomy & Physiology [1.0]
- Anatomy Honors (Formerly Med Prep) [1.0]
- AP Chemistry [1.0] *‡
- AP Psychology [1.0]
- Biotech [0.5]
- Capstone: Health [0.5]
- Chemistry - Regular or Honors [1.0] *
- Dance Technique [0.5]
- Health Education [0.5]
- Internship [0.5]
- Pharmacy Technician [0.5]
- Physics or AP Physics [1.0] *‡
- Project Management in Action (Sports & Entertainment Marketing) [0.5]
- Psychology [0.5]
- Safety & First Aid [0.5]
- Sociology [0.5]
- Sports & Exercise Science [1.0]
- Statistics (AP or CU Succeeds) [1.0]
- Team Sports [0.5]
- Weight Training [0.5]

The **Science, Technology, Engineering & Math Academy (STEM)** is designed for students with a passion for applying math and science concepts to solve problems, enhance understandings, and create innovative systems that explore and affect our ever-changing and demanding world. Class work emphasizes inquiry-based strategies to enhance problem solving, analytical thinking skills, and computer applications.

Pathways

In the **Engineering & Technology Pathway (ET)** students incorporate various hands-on technologies and tools to advance their understanding of these disciplines.
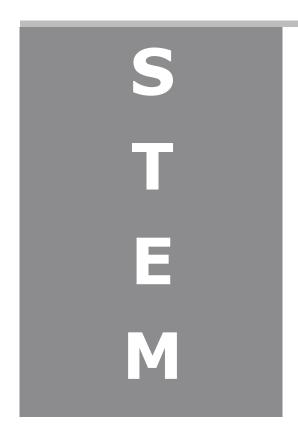
The **Computer Technology Pathway (CT)** prepares students for the ever-changing world of technology.
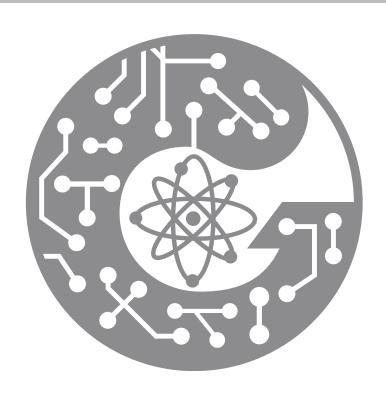
The **Energy, Earth & The Environment Pathway (EEE)** is designed for students who are interested in natural sciences, energy production and environmental studies.

STEM Student Clubs & Activities

- Academy Leadership Student Team (ALST)
- ACE Mentor Program
- Construction Days
- Destination Imagination
- Event Planning Committee (EPC)
- Family Code Night
- WICT – Tech It Out Conference
- GM Area Innovation Fair
- Health Occupation Student Organization (HOSA)

- National Honor Society (NHS)
- Ram Council
- Shell Eco Challenge
- Skills USA
- STEM Night
- Technology Student Association (TSA)

S T E M

Course credits are accounted for once, regardless of when the course is taken, be it in Foundations or Supporting requirements.

3.5 Credits are required for this pathway. 1.0 credit = 1 year long class and 0.5 credit = 1 semester long class.

Foundations Requirements | 1.5 Credits

Courses can only be used once in either Foundation or Supporting.

Example For Computer Technology Pathway:

Coding I 1st Semester (0.5)

AP Computer Science A 1st Semester (0.5)

AP Computer Science A 2nd Semester (0.5)

Total Foundations: 1.5

Supporting Requirements | 2.5 Credits

Spanish III 1st Semester (0.5)

Spanish III 2nd Semester (0.5)

Intro to Business 1st Semester (0.5)

Legal Environment of Business 2nd Semester (0.5)

Total Supporting: 2.5

BML Pathway Total: 4.0 credits

Foundations Requirements | 1.5 Credits

Fill in your courses below like the example to the left.

Courses can only be used once in either Foundation or Supporting.

Total Foundations: _____

Supporting Requirements | 2.5 Credits

Total Supporting:

Pathway Total:

Computer Technology (CT)

The Computer Technology Pathway prepares students for the ever-changing world of technology. We teach students to use Java, Python and other popular programming languages. Students learn how to develop programs, design websites, create video games and design applications that run on smartphones, tablets or a Raspberry Pi. Besides offering AP Computer Science, Green Mountain HS was one of the first 40 schools nationwide to pilot the new AP Computer Science Principles class.

To be considered as Valedictorian or Salutatorian, you must complete at least one pathway and a Capstone project.

* Recommended for advanced or GT students | ‡ Dual credit option | Course credits are accounted for once, regardless of when the course is taken, be it in Foundations, Supporting or Related requirements.

4.0 Credits are required for this pathway. 1.0 credit = 1 year long class and 0.5 credit = 1 semester long class.

Potential Majors

- Automotive Technology
- Computer Engineering
- Computer Programming
- Computer Science
- Computer/Information Technology
- Management Information Systems
- Power Equipment/ Motorcycle Technology
- Precision Machining Technology

Related Careers

- Auto Mechanic
- Computer & Information
- Computer System Analyst
- General Contractor
- Hardware Engineer
- Network Administration
- Programming
- Robotics
- Scientist/Research
- Software Engineer
- System Administration
- Video Game Design

Clubs and Activities

- Academy Leadership Student Team (ALST)
- Event Planning Committee (EPC)
- National Honor Society (NHS)
- Ram Council
- Skills USA
- Technology Student Association (TSA)

Foundations Requirements | 1.5 Credits
Courses can only be used once in either Foundation or Supporting

Classes may not be offered every semester or year

- AP Computer Science Principles [1.0] *‡
- AP Computer Science A [1.0]*‡
- Coding I [0.5]
- Coding II [0.5]
- Engineering I (Intro to Robotics) [0.5]
- Engineering II (Advanced Robotics) [0.5]

Supporting Requirements | 2.5 Credits
Courses can only be used once in either Foundation or Supporting

Classes may not be offered every semester or year

- Academy Capstone [0.5]
- AP Calculus AB or BC
- AP Computer Science A [1.0] *‡
- AP Computer Science Principles [1.0] *‡
- AP Statistics [1.0] *‡
- Capstone: STEM Endorsed Diploma [0.5]
- Coding I [0.5]
- Coding II [0.5]
- Engineering 1 [0.5]
- Engineering 2 (Engineering Design and Development) [0.5]
- Engineering 3 [0.5]
- Internship [0.5]
- Physics or AP Physics [1.0] *‡
- Public Speaking [0.5] *
- Statistics (AP or CU Succeeds) [1.0]

Energy, Earth & the Environment (EEE)

The Energy, Earth & the Environment Pathway is designed for students who are interested in natural sciences, energy production and environmental studies. Students in this Pathway take a wide variety of related science courses, such as sustainability, geology and environmental science. Students can apply what they learn in courses with a wide mix of clubs and groups.

To be considered as Valedictorian or Salutatorian, you must complete at least one pathway and a Capstone project.

* Recommended for advanced or GT students | ‡ Dual credit option | Course credits are accounted for once, regardless of when the course is taken, be it in Foundations, Supporting or Related requirements.

4.0 Credits are required for this pathway. 1.0 credit = 1 year long class and 0.5 credit = 1 semester long class.

Potential Majors

- Biology
- Chemistry
- Energy Management & Systems
- Engineering
- Environmental Science
- Forestry
- Geology/Earth Science
- Natural Resources Management
- Oceanography
- Technology

Related Careers

- Cartography
- Chemist/Biochemist
- Conservationist
- Energy Business Management
- Energy Entrepreneur
- Energy Researcher
- Environmental Science Engineer
- Forestry
- Geology
- Hydrology
- Oceanography
- Solar Energy

Clubs and Activities

- Academy Leadership Student Team (ALST)
- Event Planning Committee (EPC)
- FFA
- National Honor Society (NHS)
- Ram Council
- Science Olympiad
- Skills USA
- Technology Student Association (TSA)

Foundations Requirements | 1.5 Credits
Courses can only be used once in either Foundation or Supporting

Classes may not be offered every semester or year

- AP Computer Science Principles [1.0]
- AP Human Geography [1.0]
- Biotech [0.5]
- Chemistry (Regular or Honors) [1.0]*
- Integrated Science (regular or Honors) [1.0]
- Medical Forensic Science [0.5]
- Physics or AP Physics [1.0] *‡

Supporting Requirements | 2.5 Credits
Courses can only be used once in either Foundation or Supporting

Classes may not be offered every semester or year

- Academy Capstone [0.5]
- AP Chemistry [1.0] *‡
- AP Computer Science Principles [0.5] *‡
- Biotech [0.5]
- Coding I [0.5]
- Constuction in Geometry [1.0] (Max 1.0)
- Engineering Design 1 [0.5]
- Engineering 2 (Engineering Design and Development) [0.5]
- Engineering 3: Mechanical [0.5]
- Geology [0.5]
- Integrated Science (Regular or Honors) [1.0]
- Internship [0.5]
- Medical Forensic Science [0.5]
- Physics or AP Physics [1.0] *‡
- Public Speaking [0.5]
- Statistics (AP or CU Succeeds) [1.0]
- STEM Capstone [0.5]

Engineering and Technology (ET)

The Engineering and Technology Pathway prepares students for a future in the pervasive and profitable STEM discipline. Students interested in construction and engineering can choose courses in engineering, computer science, and robotics. Student-designed objects become real on our 3D printer or milling machine. Engineering students learn to use a variety of software through problem based learning projects. Robotics comes to life with Lego Mindstorms, Vex Robotics and Arduinos. Additionally, students can work with professional engineers and architects through the ACE Mentor Program, where they have a unique design challenge every year.

To be considered as Valedictorian or Salutatorian, you must complete at least one pathway and a Capstone project.

* Recommended for advanced or GT students | ‡ Dual credit option | Course credits are accounted for once, regardless of when the course is taken, be it in Foundations, Supporting or Related requirements.

4.0 Credits are required for this pathway. 1.0 credit = 1 year long class and 0.5 credit = 1 semester long class.

Potential Majors	Related Careers	Clubs and Activities
• Architecture • Construction Management • Engineering (Chemical, Civil, etc.) • Mathematics • Science • Statstics	• Advertising • Artist • Historian • Journalist • Judge • Lawyer • Librarian • Speech Writer • Talent Agent • Teacher • Technical Writer • Writer/Author	• Academy Leadership Student Team • National Honor Society • Ram Council • Event Planning Committee (EPC) • Health Occupation Student Organization (HOSA) • National Art Honor Society (NAHS) • Technology Student Association (TSA)

Foundations Requirements | 1.5 Credits
Courses can only be used once in either Foundation or Supporting

Classes may not be offered every semester or year

• AP Calculus AB or BC [1.0]
• AP Computer Science A [1.0] *‡
• AP Computer Science Principles [1.0]
• AP Statistics [1.0}
• Biotech [1.0]
• Engineering 1 [0.5]
• Engineering 2 (Engineering Design and Development) [0.5]

Supporting Requirements | 2.5 Credits
Courses can only be used once in either Foundation or Supporting

Classes may not be offered every semester or year

• Academy Capstone [0.5]
• AMPED [1.0]
• AP Calculus AB or BC [1.0]
• AP Chemistry [1.0] *‡
• AP Computer Science Principles [1.0]
• Biotech [1.0]
• Chemistry (regular or Honors) [1.0]
• Coding I [0.5]
• Construction with Geometry [1.0] (Max 1.0)
• Constuction Management [1.0]
• Educational Leadership [0.5]
• Engineering 1 [0.5]
• Engineering 2 (Engineering Design and Development) [0.5]
• Engineering 3: Mechanical [0.5]
• Internship [0.5]
• Intro to Business [0.5] ‡
• Math 4th year [1.0]
• Physics or AP Physics [1.0] *‡
• Public Speaking [0.5]
• Statistics (AP or CU Succeeds) [1.0]
• STEM Capstone [0.5]

Q: Does my student have to declare a pathway or academy as a freshman?
A: No! The Academy Program is an opt in at any point during your 4 years at GMHS. Students will fill out a Pathway Verification Form in the Spring Semester of their Senior year to be verified by GMHS staff to receive their graduation regalia and get the pathways on their final transcript.

Q: Is my student locked into a pathway or academy and unable to change if they change their mind?
A: No! As mentioned above, students do not submit their final pathways for verification until the Spring Semester of their Senior Year. Up until then, they are free to explore as many pathways and classes as they wish throughout their high school career. Some students start out thinking they want to do something and after taking a couple classes, decide it is not for them!

Q: What if my student doesn't know what they want to do after high school and doesn't want to commit to any pathway?
A: That is okay! The Renaissance Pathway is for any student who wants to try classes in all of the different Academies and Pathways but doesn't have a specific one they want to complete. Students must complete 1.0 credits (1 full year or 2 semester classes) in each of the four Academies to complete this pathway.

Students who complete one or more pathways in any other academy are **NOT** *eligible for this pathway.*

Q: My student wants to change the pathway they were originally planning to complete. How do they do that?
A: Students do not have to declare or change any pathways until the Spring Semester of their Senior year. When selecting classes for the next school year, students should take a look at the requirements for the different pathways and select classes they would like to take based on the requirements for the pathway(s) that they want to complete.

Q: Can my student complete multiple pathways within one Academy?
A: Yes! Students are encouraged to complete as many pathways as they want to. However, they will only receive one cord per Academy that they complete a pathway in, even if they complete more than one in that Academy. Ex: A student has completed all three pathways within the Health & Human Services Academy - they will receive one red cord to represent that Academy, not 3 red cords to represent each pathway. Students who complete a pathway in all four Academies will have on each of blue, green, red and silver cords at graduation.

Q: What if my student doesn't do a Pathway Verification their Senior year?
A: If students do not submit the paperwork to have the pathways they believe that have completed verified in the spring of their Senior year, they simply will not get the regalia to wear at graduation and won't have the pathways on the transcript. They will receive their diplma as normal, as long as they have completed all of the credits for graduation.

Q: What if my student transfers to GMHS after their Freshman year?
A: No problem! Transfer students are still able to participate. We will work with them to see what their previous classes can apply to and will grant exceptions if necessary.

GREEN MOUNTAIN

HIGH SCHOOL

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