Dear Friend of Green Mountain HS,

Thank you for your interest in our 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.

With more than 45 years of experience behind us, we continue to build upon this founding mission, charting new pathways to reinvigorate, challenge and inspire our students.

We achieve this by staying true to FOUR FOUNDATIONAL PRACTICES that even today, accurately summarize our daily goals.

- Provide a RIGOROUS academic environment that challenges students to make sense of what they learn, be self-directed, and be curious about their future.
- Foster RELEVANCE by ensuring that all learning is relevant to a student’s future, to the world in which they live in and will be working in the near future.
- Develop meaningful and authentic RELATIONSHIPS between students and teachers built on trust, mutual respect, empathy and compassion.
- Drive tangible RESULTS by empowering students to fully engage in their high school experience, from academics and sports to civic duty and personal growth.

I encourage you to read on to learn more about one of our greatest distinctions and strengths, our Academies and Pathways to Your Future 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.

At your convenience, I invite you to stop by for a school tour to meet with our Academy coordinators and learn more about the opportunities and experiences that await you and your student.

Best regards,

Colleen Owens
Principal, Green Mountain HS
Former Green Mountain Graduate (Go RAMS!)
Pathways to your Future | Making a Difference

The Academy Program is a four-year advanced learning series that is available to students at Green Mountain HS. Built upon Advanced Placement (AP) standards of excellence, the Academy Program incorporates AP coursework into its curriculum allowing students to accrue AP college credits and earn endorsements in particular disciplines along with their high school diploma.

The Academy Program at Green Mountain HS consists of four Academies, including (1) Arts, Humanities, & Performing Arts; (2) Business & Global Studies; (3) Health & Human Services; and (4) Science, Technology, Engineering, & Math. Within these Academies, students can select from 14 different Pathways that delve deeper into specific yet complementary disciplines.

Academy students follow a curriculum that includes rigorous academic coursework as well as career-oriented courses, participation in career-based learning activities and research-oriented projects like the Senior Capstone. This academic structure provides students the opportunity to increase the depth and rigor of their education while giving them the freedom and flexibility to select which Pathways they choose to experience and complete.

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. The Academy approach has taken root in an estimated 8,000 high schools across the country. In Colorado, Green Mountain HS is one of only a few Academy schools and the only Academy school in Jefferson County.

Academy Coordinators

GMHS has four 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@jeffco.k12.co.us
David Maeding | david.maeding@jeffco.k12.co.us
Lynne Murphy | lynne.murphy@jeffco.k12.co.us
Chuck Powell | charles.powell@jeffco.k12.co.us
Jo Tiwari | johanna.tiwari@jeffco.k12.co.us

In 2018, the GM Articulation Area (5 Elementaries, Dunstan Middle School and GMHS) began integrating the GMHS Academy Program into a K-12 program through a Jeffco Schools Innovation Grant. The area principals, Area Academy Coordinator and teacher leadership team are aligning the K-12 learning experiences in the area. For questions or for more information about the K-12 Program, please contact our GM Area Academy Coordinator, Lora Bong.

GM Area Academy Coordinator
Lora Bong | lora.bong@jeffco.k12.co.us

www.gmhsrams.org
Families making important decisions on where to attend high school often have questions about how the Green Mountain HS Academy Program with Honors and Advanced Placement courses compare to the International Baccalaureate Diploma.

### Academies At-A-Glance - Advanced Learning Programs Comparison Chart

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Academy &amp; Pathways</th>
<th>Advanced Placement at GMHS</th>
<th>IB Diploma</th>
</tr>
</thead>
<tbody>
<tr>
<td>Philosophy</td>
<td>Academy schools were developed in the 1980s to deliver a balanced learning approach that combines AP-based curriculum with real-life career pathways.</td>
<td>AP was developed in the 1950s in the U.S. to help high school students prepare for college by taking advanced courses.</td>
<td>IB was developed in the 1960s in Switzerland to be an internationally recognized diploma.</td>
</tr>
<tr>
<td>Coursework</td>
<td>Students have the option to enrich their core academic experience with advanced Academy learning, pathways, honors, AP, and concurrent/dual enrollment coursework. There are four different Academies focused on Arts, Business, Health and Science.</td>
<td>Students can take as many AP classes in high school as they like. Each AP exam is scored on a 1 to 5 scale. Scores of 3 or higher are typically granted college credit. Students in any grade may take an AP course &amp; exam.</td>
<td>The IB Diploma Program is a 2 year (11th &amp; 12th grade) program. Courses are either standard level (1 or 2 years of study &amp; an IB exam in each course) or higher level (2 years of study &amp; IB exam in each course). Students must earn 24 points (based on exam of 1 to 7 and an extended essay) to receive an IB Diploma. 129 courses in 6 core subject areas.</td>
</tr>
<tr>
<td>Curriculum Flexibility</td>
<td>Yes - Students can select which Academies and Pathways they complete in high school. Students can complete multiple Pathways and change their Pathways while in high school.</td>
<td>Yes - Students can select which AP classes they enroll into in high school.</td>
<td>No - Prescribed curriculum for IB diploma.</td>
</tr>
<tr>
<td>College Credit</td>
<td>Yes - Students can earn college credits in any of the following three ways: 1) AP coursework. 2) Concurrent enrollment coursework. (Currently available through Red Rocks and CU Denver.) 3) Dual enrollment coursework. (Currently available through Colorado Christian University).</td>
<td>Yes - Varies by college/university.</td>
<td>Yes - Varies by college/university.</td>
</tr>
<tr>
<td>Open Enrollment</td>
<td>Yes - Open to all students.</td>
<td>Yes - Open to all students.</td>
<td>No - Open only to students accepted into the program.</td>
</tr>
<tr>
<td>Career Exploration</td>
<td>Yes - Students have access to various learning opportunities outside of the classroom.</td>
<td>No - Academic focus only.</td>
<td>No - Academic focus only.</td>
</tr>
</tbody>
</table>
Charting your Pathway

Green Mountain High School offers four Academies. Each Academy offers 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.

**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**

- Agriculture
- Computer Technology
- Engineering & Technology
- Energy, Earth & The Environment
Student Benefits

The Academy and Pathways to your Future program is based on a highly personalized model supported through relevance, rigor and relationships. Through this program, students are exposed to inquiry-based learning while cultivating real life experiences both inside and outside of the classroom. Some of the key benefits of this program include:

- Advanced Placement
- Career and technical education
- Co-curricular with Warren Tech
- Concurrent and Dual college credit courses
- High-level electives
- Honors courses
- Job credit

Student Opportunities

Capstone Senior Project
A Capstone project is a multifaceted assignment that challenges seniors to think critically, solve challenging problems, and develop life skills. Projects are also interdisciplinary, requiring students to apply skills across many different subject areas. These projects encourage students to connect their projects to community issues and to integrate after school learning experiences, including activities such as interviews, scientific observations, or internships.

General Leadership
Green Mountain HS offers students various leadership opportunities designed to help prepare students for the real world. Clubs like Academy Leadership Student Team, Ram Council, Event Planning Committee and National Honor Society offer students hands-on leadership training opportunities through workshops, presentations, team-building and community activities.

Workshops
At GMHS we strive to be innovative and create opportunities for our students and staff to stay current on educational and career field trends and needs. The Workshops allow educators and community partners to provide deeper and more meaningful learning and development in areas that compliment strong academics and preparation for the post-secondary choices. Our hope is that the Workshops meet the diverse needs of our student population, provide a variety of learning opportunities in areas of interest to students, and serve as an additional support network that compliments student achievement.

Career Exploration Opportunities

Academy Internship
An Academy internship is offered to qualified students. Students have the opportunity to go to a mentor’s job site and engage in hands-on activities to learn more about a specific job or career. Interns must complete at least 90 hours at the job site in exchange for .5 credits toward graduation and a Pathway.

Advisory Board/Networking
The GMHS Advisory Board consists of staff, students and our business and community partners. Students have the opportunity to attend the Advisory Board meetings to network, meet potential career shadow and internship mentors, and share ideas for future curriculum, opportunities, and industry alignment within our Academy Program. Adult Advisory Board members can be parents as well as business and community members. Meetings are held in the fall and spring of each year.

Career Shadowing
Career shadowing is an on-the-job learning opportunity for students to explore their career interests alongside a business professional. Students are paired with a business professional who can help them learn new aspects related to that career.

Mock Interview
A mock interview is an emulation of an interview used for training purposes. Each spring, students participate in a mock interview clinic to prepare and practice interviewing skills with business professionals. The mock interview helps the job applicant learn what is expected in a job interview, and improves the applicant’s self-presentation.
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
   - Completion of course requirements for one Pathway

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

3. Renaissance Scholar Endorsement
   - Completion of course requirements for at least two Pathways
   - Completion of a Capstone project

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

Recognition

Students enrolled in the Academies and Pathways to your Future program will wear the following distinctions at graduation in recognition for their achievements.

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

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Blue Cord</td>
<td>Green Cord</td>
<td>Red Cord</td>
<td>Silver Cord</td>
</tr>
<tr>
<td>Pathway Endorsement with Honors</td>
<td>Pathway Endorsement with Honors</td>
<td>Pathway Endorsement with Honors</td>
<td>Pathway Endorsement with Honors</td>
</tr>
<tr>
<td>Honors Pin</td>
<td>Honors Pin</td>
<td>Honors Pin</td>
<td>Honors Pin</td>
</tr>
<tr>
<td>Renaissance Scholar Endorsement</td>
<td>Renaissance Scholar Endorsement</td>
<td>Renaissance Scholar Endorsement</td>
<td>Renaissance Scholar Endorsement</td>
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<tr>
<td>Black and Gold Braided Cord</td>
<td>Black and Gold Braided Cord</td>
<td>Black and Gold Braided Cord</td>
<td>Black and Gold Braided Cord</td>
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<tr>
<td>Capstone Scholar Achievement Pin</td>
<td>Capstone Scholar Achievement Pin</td>
<td>Capstone Scholar Achievement Pin</td>
<td>Capstone Scholar Achievement Pin</td>
</tr>
</tbody>
</table>

8
Academy and Pathways to your Future

Advanced Course Offerings

**Advanced Placement Courses**

- Art 2-D Design
- Biology
- Calculus AB
- Calculus BC
- Chemistry
- Computer Science A
- Computer Science Principles
- English Language & Composition
- English Literature & Composition
- European History
- Government & Politics
- Macroeconomics
- Music Theory
- Physics
- Psychology
- Spanish Language
- Statistics
- US History
- World History

**Honors Courses**

- Geometry
- STEM
- Biology
- English 9
- English 10
- U.S. Government
- Geography
- Algebra II
- Spanish II
- Pre-Calculus/Trig
- Chemistry
- Spanish III & IV

**Concurrent Enrollment Courses**

- AP Calculus AB
- AP Calculus BC
- AP Statistics
- Graphic Design Advanced II
- Graphic Design Intermediate (Photoshop)
- Graphic Design Advanced (Illustrator)
- Med Prep
- Photography Advanced
- Photography Intermediate
- Pre-Calculus/Trig Honors

**Dual Enrollment Courses (Colorado Christian University)**

- AP Chemistry
- AP Spanish Language

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Jefferson County Graduation Requirements

Total Credits Needed: 23.0

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credits required for graduation</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>4.0</td>
</tr>
<tr>
<td>Mathematics (Algebra I, Geometry and higher)</td>
<td>3.0</td>
</tr>
<tr>
<td>Science</td>
<td>3.0</td>
</tr>
<tr>
<td>Physical Education</td>
<td>0.5</td>
</tr>
<tr>
<td>Elective Courses**</td>
<td>8.5</td>
</tr>
<tr>
<td>Fine or Practical Arts or CTE Course</td>
<td>0.5</td>
</tr>
</tbody>
</table>

Starting with Class of 2021, Students will have to complete the above credits as well as demonstrate competency in Math and English.

Per Jeffco Graduation Guidelines.

** 1-2 years of a world language is strongly recommended.
Overview

In our 21st century world, creating connections between aesthetics and communication is increasingly in demand. The Arts, Humanities & Performing Arts Academy 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.

Student Clubs

- Academy Leadership Student Team
- Color Guard
- Event Planning Committee
- Green Mountain Theatre Troupe
- National Art Honor Society
- National Honor Society
- Ram Council
- Technology Student Association (TSA)
- Winter Guard

Student Activities

- Career Shadow
- Choir
- Comprehensive Theatre
- Fall Play
- Internship
- Marching Band
- Mock Trial
- Orchestra
- Percussion
- Spring Musical

I wish the Academy system was available at Green Mountain High School when I attended. I have since seen it roll out with my younger siblings, and I am jealous. It seems to be set up more like how a college/university would be set up. I think it definitely helps in funneling your interests into a specific area of learning. If I had that option, then I probably wouldn’t have felt so lost once I got to college. I would have had a sense of what classes I needed to take, and what kind of curriculum is associated with it.

Breezy Sevy, Class of 2011
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.

Foundations Requirements | 1.0 Credits
- Intro to Film/Video Production [0.5]
- Video Production II [1.0]
- Broadcasting [1.0]

Supporting Requirements | 3.0 Credits
- AMPED [1.0]
- AP Computer Science Principles [1.0]
- AP Computer Science A [1.0]
- Broadcasting [1.0]*
- Digital Photography [0.5]
- Directing [0.5]
- Drama Acting/Performance [0.5]
- Drama Acting/Performance Adv. [0.5]
- Drama Acting/Performance Int. [0.5]
- Drama Stagecraft [1.0]
- Educational Leadership [0.5]
- Film Studies [0.5]
- Game and App Design [0.5]
- Geometry in Construction [1.0]
- Internship [0.5]*

* Can only be used once in either Foundation or Supporting.

Supporting Requirements Continued:
- Intro to Business [0.5]
- Intro to Computer Science [0.5]
- Intro to Graphic Design [0.5]
- Marketing Principles [0.5]
- Photography (Intro - Adv.) [0.5]
- Public Speaking [0.5]
- Video Production II [1.0]
- Video Production III [1.0]

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

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

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

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

* Recommended for advanced or GT students. ‡ Dual credit option
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.

**Foundations Requirements | 1.0 Credit**
- AP Macroeconomics [0.5]*
- Public Speaking [0.5]
- Psychology [0.5]
- Philosophy [0.5] *
- Sociology [0.5]
- World Language Level III [1.0]

**Supporting Requirements | 2.5 Credits**
- AP European History [1.0] **†**
- AP Language & Comp [1.0] **†**
- AP Literature & Comp [1.0] *
- AP Macroeconomics [0.5] **†**
- AP Psychology [1.0] **†**
- Statistics (AP or CU Succeeds) [1.0]
- Business Law [0.5]
- Elementary Tutor [0.5]
- History of Rock & Roll [0.5]
- Internship [0.5]
- Journalism [0.5]
- Newspaper [1.0]
- Public Speaking [0.5]
- Event Planning Committee [0.5]
- Yearbook [1.0]

**Related Requirements | 0.5 Credits**
- Any Art class [0.5]
- Any Music class [0.5]
- Any Theatre Class [0.5]
- Educational Leadership [0.5]
- Film Studies [0.5]
- Green Mountain Gear & Printing [0.5]

* Can only be used once in either Foundation or Supporting.

**Potential Majors**
- Art History
- Film
- Humanistic Studies
- Journalism
- Liberal Arts
- Media
- Public Relations
- Social Science

**Related Careers**
- Advertising
- Artist
- Historian
- Journalist
- Judge
- Lawyer
- Librarian
- Speech Writer
- Talent Agent
- Teacher
- Technical Writer
- Writer/Author

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

Foundations Requirements | 2.0 Credits

- Chamber Orchestra [1.0]*
- Concert Band [1.0]*
- Drama - Acting/Performance Adv. [0.5]*
- Drama - Acting/Performance Int. [0.5]*
- Drama - Acting/Performance [0.5]*
- Drama - Stagecraft [1.0]*
- Guitar [0.5]
- Images - Advanced Women’s Choir [1.0]*
- Percussion [1.0]*
- Shadows - Advanced Mixed Choir [1.0]*
- String Orchestra [1.0]*
- Symphonic Band [1.0]*
- Wind Ensemble [1.0]*
- Women’s Choir/Men’s Choir [1.0]*

Supporting Requirements | 1.0 Credits

- AP Music Theory [1.0]*‡
- Dance Technique [0.5]
- Directing [0.5]
- Drama - Acting/Performance Adv. [0.5]*
- Drama - Acting/Performance Int. [0.5]*
- Guitar [0.5]
- Jazz Band [1.0]*
- Marching Band [1.0]

Related Requirements | 1.0 Credits

- Any choir course (for instrumental-focused students)
- Any instrumental music course (for vocal-focused students)
- Any theater course *
- AP Language & Comp [1.0]*‡
- AP Literature & Comp [1.0]*‡
- AP Music Theory [1.0]*
- Broadcasting [1.0]
- Educational Leadership [0.5]
- History of Rock & Roll [0.5]
- Internship [0.5]
- Intro to Film/Video Production [0.5]
- Public Speaking [0.5]
- Psychology [0.5]

* Can only be used once in either Foundation or Supporting.

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]

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

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

* Recommended for advanced or GT students. ‡ Dual credit option
To be considered as Valedictorian or Salutatorian, you must complete at least one pathway and a Capstone project.

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

* Recommended for advanced or GT students. ‡ Dual credit option

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**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.

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**Foundations Requirements | 2.0 Credits**

- Digital Photography (Intro. - Inter) [0.5-1.0]
- Drawing (Intro-Studio) [0.5-2.0]
- Graphic Design (Intro-Studio) [0.5-2.0] ‡
- Internship [0.5]
- Painting (Intro-Studio) [0.5-2.0]
- Photography (Intro-Studio) [0.5-2.0] ‡
- Printmaking [0.5]

* Can only be used once in either Foundation or Supporting.

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**Supporting Requirements | 2.0 Credits**

- AMPED [1.0]
- AP Art [1.0] *‡
- AP Computer Science Principles [1.0]
- AP Computer Science A [1.0]
- Drama - Acting/Performance [0.5]
- Educational Leadership [0.5]
- Engineering Design [0.5]
- Geometry in Construction [1.0]
- Green Mountain Gear & Printing [1.0]
- Honors STEM (9th Grade) [0.5]
- Internship [0.5]
- Intro to Business [0.5] ‡
- Intro to Computer Science [0.5]
- Intro to Engineering [0.5]
- Game and App Design [0.5]
- Intro to Film & Video Production [0.5]
- Intro-Studio in a different medium from above [0.5-2.0]
- Marketing [0.5]
- Public Speaking [0.5]
- Yearbook [1.0]

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**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

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To be considered as Valedictorian or Salutatorian, you must complete at least one pathway and a Capstone project. Course credits are accounted for once, regardless of when the course is taken, be it in Foundations, Supporting or Related requirements. * Recommended for advanced or GT students. ‡ Dual credit option
In a world where global commerce and politics have emerged as driving forces, the Business & Global Studies Academy 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.

Student Clubs

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

Student Activities

- Career Shadow
- Internship
- Mock Trial
- Speech and Debate

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I am currently attending CU Boulder. I started out as Computer Science, but switched to Business with my area of emphasis being information and operations management. The Academy system at Green Mountain High School helped me find my true passion in coding. I am also currently considering a fifth year masters in either supply chain or business analytics.

Alex Glose, Class of 2013
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.

Foundations Requirements | 1.5 Credits

- Business Leadership [1.0]
- Intro Business [0.5] ‡
- Green Mountain Gear & Printing [1.0]
- International Business [0.5]
- Marketing Principles [0.5] ‡
- Public Speaking [0.5]

Supporting Requirements | 2.5 Credits

- Business Law [0.5]
- Event Planning Committee [0.5]
- Green Mountain Gear & Printing [1.0] *
- Journalism [0.5]
- Newspaper [1.0]
- Public Speaking [0.5] *
- Sports & Entertainment Marketing [0.5]
- Statistics (AP or CU Succeeds) [1.0]

* Can only be used once in either Foundation or Supporting.

Supporting Requirements Continued:

- AMPED [1.0]
- AP Macroeconomics [0.5] *‡
- AP Psychology [1.0] *‡
- AP World Language [1.0] *‡
- Banking & Finance [0.5] ‡
- Business Leadership [1.0] *
- Educational Leadership [0.5]
- Environmental Science [0.5]
- Geometry in Construction [1.0]
- Honors STEM (9th Grade) [0.5]
- International Business & Marketing [0.5] *
- Internship [0.5]
- Marketing Principles [0.5] *
- Marketing-Advanced [0.5]
- Marketing-Independent Study [0.5]
- Marketing-Strategies [0.5]
- Marketing-Workplace Experience [0.5] OJE
- Psychology [0.5]
- Sociology [0.5]
- Sports & Entertainment Marketing [0.5]
- Technical Writing [1.0]
- World Language 3rd year Honors [1.0] *
- World Language 4th year [1.0] *

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

- Accountant
- Business Administration
- CEO
- Financial Advisor/Planner
- Financial Regulation
- Foreign Service
- Government & Public Management
- Journalist
- Law & Legal Services
- Marketing & Advertising
- Public Relations
- Revenue & Taxation
- Sales
- Travel & Tourism
- Urban & Regional Planning

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

#### Foundations Requirements | 1.0 credit
- Intro Business [0.5] ✧
- International Business [0.5] ★
- Intro to Computer Science [0.5] ★
- Intro to Graphic Design [0.5] ★
- Public Speaking [0.5] ★

#### Supporting Requirements | 2.5 Credits
- Statistics (AP or CU Succeeds) [1.0]
- Business Law [0.5]
- Business Leadership [1.0]
- Computer Networks & Programming [0.5] ✧
- Green Mountain Gear & Printing [1.0]
- Intro Business [0.5] ✧
- Intro to Computer Science [0.5] ★
- Intro to Graphic Design [0.5] ★
- Intro to Film & Video Production [0.5]
- Journalism [0.5]
- Newspaper [1.0]
- World Language II or III Honors [1.0] ★

* Can only be used once in either Foundation or Supporting.

### 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

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

### Foundations Requirements | 1.5 Credits
- Intro to Business [0.5]
- International Business/Marketing [0.5]
- World Language Level III or IV Honors [1.0]*

### Supporting Requirements | 2.5 Credits
- Banking & Finance [0.5] ‡
- Business Leadership [1.0]
- Business Law [0.5]
- Event Planning Committee [0.5]
- Green Mountain Gear & Printing [1.0]
- Intro to Computer Science [0.5]
- International Business/Marketing [0.5]*
- Journalistic Writing [0.5]*
- Intro to Business [0.5] ‡*
- Journalism [0.5]
- Public Speaking [0.5]

* Can only be used once in either Foundation or Supporting.

### Supporting Requirements Continued:
- AP European History [1.0] *‡
- AP Government [0.5] *‡
- AP Language & Composition [1.0] *‡
- AP Literature & Composition [1.0] *‡
- AP Macroeconomics [0.5] *‡
- AP World History [1.0] *‡
- Educational Leadership [0.5]
- Internship [0.5]
- Psychology [0.5] or AP Psychology [1.0] *‡
- Sociology [0.5]
- Technical Writing [1.0]
- World Language Level IV or AP [1.0]*‡

### 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

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

Student Clubs

- Academy Leadership Student Team
- Badminton Club
- Event Planning Committee
- Future Farmers of America
- Gay Straight Alliance
- Health Occupation Student Organization (HOSA)
- Interact
- National Honor Society
- Ping Pong Club
- Ram Athletic Leadership Team
- Ram Council
- Science Fair Club
- Student Senate
- Sources of Strength

Student Activities

- Career Shadow
- Internship
- Special Olympics
- Unified Basketball

It was such a wonderful opportunity to be able to come back to the school and be able to judge the Capstone projects. I was very happy to see that the timeline for the Capstone was condensed to one semester. I believe it pushes students to better time manage themselves with all the other school work and after school activities. That is a very good trait to have for when they go into college or even the real world. I would encourage more and more students to come back after a year or two to judge the Capstone projects because it was such a great experience and it’s so cool to see what these younger students are capable of doing and what they hold for the future.

Ethan Kostival, Class of 2014
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.

Foundations Requirements | 3.0 Credits

- AP Biology [1.0]*‡
- Anatomy and Physiology [1.0]
- Chemistry - regular or Honors [1.0] *
- Med Prep [1.0]
- Physics - regular or AP [1.0]*

Supporting Requirements | 1.0 Credits

- Anatomy & Physiology [1.0]
- Any STEM Elective [0.5]
- AP Biology [1.0] **
- AP Chemistry [1.0] **
- AP Psychology [1.0] **
- Chemistry - regular or Honors [1.0] *
- Educational Leadership [0.5]

* Can only be used once in either Foundation or Supporting.

Supporting Requirements Continued:

- Health Education [0.5]
- Forensic Science [0.5]
- Internship [0.5]
- Physics - regular or AP [1.0]*
- Safety & First Aid [0.5]
- Sports & Exercise Science [1.0]
- Statistics (AP or CU Succeeds) [1.0]
- Technical Writing [0.5]

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

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

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

* Recommended for advanced or GT students. ‡ Dual credit option.
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.

Foundation Requirements | 1.5 Credits

- Anatomy & Physiology [1.0] *
- AP Biology in 12th grade [1.0] **
- Health Education [0.5]*
- Safety & First Aid [0.5]*
- Sports & Exercise Science [1.0]*

Supporting Requirements | 2.5 Credits

- Dance Technique [0.5]
- Fitness/Conditioning Aerobics [0.5]
- Health Education [0.5]*
- Lifetime Fitness [0.5]
- Safety & First Aid [0.5]*
- Sports & Exercise Science [1.0]*
- Team Sports [0.5]
- Weight Training [0.5]

* Can only be used once in either Foundation or Supporting.

Supporting Requirements Continued:

- Anatomy & Physiology [1.0]*
- AP Biology [1.0] **
- AP Chemistry [1.0] **
- AP Psychology [1.0]
- Chemistry - Regular or Honors [1.0] *
- Educational Leadership [0.5]
- Individual and Dual Sports [0.5]
- Internship [0.5]
- Physics or AP Physics [1.0] **
- Psychology [0.5]
- Sociology [0.5]
- Sports & Entertainment Marketing [0.5]
- Statistics (AP or CU Succeeds) [1.0]
- Technical Writing [0.5]

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

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

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

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

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.

### Foundations Requirements | 1.0 Credits
- AP Psychology [1.0]
- Educational Leadership [0.5]
- Psychology [0.5]
- Safety & First Aid [0.5]
- Sociology [0.5]

### Supporting Requirements | 3.0 Credits
- AP Biology [1.0] **‡
- AP Psychology [1.0] *
- Anatomy & Physiology [1.0]
- Business Leadership [1.0]
- Educational Leadership [0.5] *
- Environmental Science [0.5]
- Elementary Tutor [0.5-2.0] OR completion of a Warren Tech Program to complete all credits for this Pathway
- Forensic Science [0.5]
- Health Education [0.5]
- Internship [0.5]
- Med Prep [1.0]
- Outdoor Ed Lab Leader [0.5] *
- Psychology [0.5] *
- Safety & First Aid [0.5] *
- Sociology [0.5] *
- Statistics (CU Succeed) [0.5] *‡
- Technical Writing [0.5]
- World Language [1.0]

* Can only be used once in either Foundation or Supporting.

### Potential Majors
- Clinical Social Work or Counseling
- Criminal Justice
- Fire Science
- Human Services Administration
- Human Services Child & Family Welfare
- Human Services Disaster, Crisis & Intervention
- Psychology
- Social Science

### Related Careers
- Administrator
- Child Welfare
- Cook/Chef
- Corrections Services
- Counseling
- Education & Educational Administration
- Elderly Services
- Emergency & Fire Management Services
- Health, Safety & Environmental Services
- Law Enforcement Services
- Massage Therapy
- Personal Home Healthcare
- Research & Management
- Security & Protective Services
- Teacher
- Travel Agent
The Science, Technology, Engineering & Math Academy 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

The Agriculture Pathway (AG) prepares students to engage in the fast-growing agriculture industry.

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.

Student Clubs

- Academy Leadership Student Team
- ACE Mentor Program
- Destination Imagination
- Event Planning Committee
- National FFA Organization
- National Honor Society
- Science Olympiad
- Technology Student Association
- Vintage Video Game Club

Student Activities

- Career Shadow
- Construction Days
- Family Code Night
- Internship
- Shell Eco Challenge
- STEM Night
- WICT – Tech It Out Conference

The STEM Academy at Green Mountain High School was helpful to reassure me that I wanted to pursue nanotechnology. All the Academies in general have made me a more well-rounded person, which has prepared me in college (and life in general) because you need all of those skills to be a valuable asset to a company and to succeed in life. Another positive aspect was the networking that I was exposed to, always meeting local technical folks and discussing what they do and such.

Emily Rinko, Class of 2013
Agriculture (AG)

The Agriculture Pathway prepares students to engage in the fast-growing agriculture industry. There are three main components: a strong curriculum and community partnerships; Supervised Agricultural Experiences; and participation in the National FFA Organization. Students learn leadership, entrepreneurship, and the food, fiber and natural resource system that is America’s most creative, productive and basic industry. Much of the country’s success in agriculture can be attributed to a sound program of education.

Foundations Requirements | 1.5 Credits
- Biology (Regular or Honors) [1.0]
- Intro to Agriculture [0.5]

Supporting Requirements | 1.5 Credits
- Animal Science [0.5]
- Agribusiness Marketing [0.5]
- Ag Career Development [0.5]
- Floriculture & Landscape Design [0.5]
- Food Products & Processing [0.5]
- Forestry & Wildlife Science [0.5]
- Global Agriculture [0.5]
- Greenhouse Management [0.5]
- Intro to Horticulture [0.5]
- Landscape Management [0.5]
- Large Animal Management [0.5]
- Natural Resource Management [0.5]
- Plant & Soil Science [0.5]
- Small Animal Science [0.5]
- Urban Agriculture
- Veterinary Science [0.5]

* Can only be used once in either Foundation or Supporting.

Related Requirements | 0.5 Credits
- Any Business Class [0.5]
- Any Marketing Class [0.5]
- Any Computer Science class [0.5]
- Chemistry or Honors Chemistry [1.0]
- Educational Leadership [0.5]
- Environmental Science [0.5]*
- Geology [0.5] ‡
- Geometry in Construction [1.0]
- Internship [0.5]
- Other Agriculture related course not already counted towards Foundation and Supporting Credits [1.0]
- Public Speaking [0.5]
- Safety & First Aid [0.5]
- Statistics (AP or CU Succeeds) [1.0]
- Technical Writing [1.0]
- World Language I-III [1.0]

Potential Majors
- Ag Economics
- Ag Researcher
- Agri-Business
- Agriculture Engineering
- Applied Science
- Biotechnology
- Electrical Engineering
- Entomology
- Risk Management
- Veterinary Medicine

Related Careers
- Ag Economist
- Ag Marketing & Risk Management
- Ag Production
- Animal Nutritionist
- Biochemist
- Environmental Scientist
- Farmer/Rancher
- Fish & Wildlife Industry
- Livestock Production
- Vet Technician
- Veterinarian
- Water Quality Technician
- Zoo Keeper

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

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

* Recommended for advanced or GT students. ‡ Dual credit option.
### 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.

### Foundations Requirements | 2.0 Credits

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Robotics [0.5]*</td>
<td></td>
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<tr>
<td>AP Computer Science Principles [1.0] *‡</td>
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<tr>
<td>AP Computer Science A [1.0]*‡</td>
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<tr>
<td>Honors STEM (9th Grade) [1.0]*</td>
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<tr>
<td>Intro to Computer Science [0.5] *</td>
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<tr>
<td>Intro to Robotics [0.5] *</td>
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</tbody>
</table>

### Supporting Requirements | 1.5 Credits

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Advanced Robotics [0.5]*</td>
<td></td>
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<tr>
<td>AP Computer Science A [1.0] *‡</td>
<td></td>
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<tr>
<td>AP Computer Science Principles [1.0] *‡</td>
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<tr>
<td>Application Development [0.5]</td>
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<tr>
<td>Architectural Design [0.5]</td>
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<tr>
<td>EdTech Repair [1.0]</td>
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<tr>
<td>Honors STEM [1.0]</td>
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<tr>
<td>Intro to Engineering [0.5]</td>
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<tr>
<td>Physics or AP Physics [1.0] *‡</td>
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<tr>
<td>Principles of Engineering [0.5]</td>
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<tr>
<td>Video Game Design [0.5]</td>
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</tbody>
</table>

* Can only be used once in either Foundation or Supporting.

### Related Requirements | 0.5 Credits

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AMPED [1.0]</td>
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<tr>
<td>AP Psychology [1.0]</td>
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<tr>
<td>Educational Leadership [0.5]</td>
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<tr>
<td>Geometry in Construction [1.0]</td>
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<tr>
<td>Green Mountain Gear &amp; Printing [0.5] *</td>
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<tr>
<td>Graphic Design (Intro Studio) [0.5] *‡</td>
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<tr>
<td>Internship [0.5]</td>
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<tr>
<td>Intro to Film &amp; Video Production [0.5]</td>
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<tr>
<td>Introductory Business [0.5] ‡</td>
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<tr>
<td>Psychology [0.5]</td>
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<tr>
<td>Public Speaking [0.5] *</td>
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<tr>
<td>Shell Eco Challenge [0.5]</td>
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<tr>
<td>Statistics (AP or CU Succeeds) [1.0]</td>
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<tr>
<td>Technical Writing [0.5]</td>
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</tbody>
</table>

### 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

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

Foundations Requirements | 1.5 Credits

- Any Agriculture Course [0.5]
- AP Biology [1.0] *‡‡
- Astronomy [0.5]*
- Chemistry (Regular or Honors) [1.0]*
- Environmental Science [0.5]*
- Geology [0.5]*

Supporting Requirements | 2.0 Credits

- AMPED [1.0]
- AP Biology [1.0] *‡‡
- AP Chemistry [1.0] *‡
- AP Computer Science Principles [0.5] *‡
- Astronomy [0.5]*
- Environmental Science [0.5] *
- Forensic Science [0.5]
- Geology [0.5]*
- Geometry in Construction [1.0]
- Honors STEM (9th Grade) [0.5]
- Intro to Computer Science [0.5]
- Intro to Engineering [0.5]
- Intro to Robotics [0.5]
- Internship [0.5]
- Physics or AP Physics [1.0] *‡
- Principles of Engineering [0.5]
- Robotics Engineering [0.5]*

* Can only be used once in either Foundation or Supporting.

Related Requirements | 0.5 Credits

- AP Macroeconomics [0.5] *‡
- AP Psychology [1.0] *‡
- AP World History [1.0] *‡
- Educational Leadership [0.5]
- Intro to Business [0.5]
- Marketing Principles [0.5] *‡
- Psychology [0.5]
- Public Speaking [0.5]
- Safety & First Aid [0.5]
- Shell Eco Challenge [0.5]
- Sociology [0.5]
- Statistics (AP or CU Succeeds) [1.0]
- Technical Writing [0.5]
- World Language Level I-III [1.0]*

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

Foundations Requirements | 2.0 Credits

<table>
<thead>
<tr>
<th>Grades 11-12</th>
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</thead>
<tbody>
<tr>
<td>□ Chemistry (regular or Honors)</td>
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<tr>
<td>□ Physics (regular or AP) [1.0] *</td>
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<tr>
<td>□ Honors STEM [1.0] *</td>
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<tr>
<td>□ Math 4th year or AP Computer Science [1.0] **</td>
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</tbody>
</table>

Supporting Requirements | 2.0 Credits

<table>
<thead>
<tr>
<th>Grades 9-12</th>
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</tr>
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<tbody>
<tr>
<td>□ AMPED [1.0]</td>
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<tr>
<td>□ AP Chemistry [1.0] †</td>
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<tr>
<td>□ AP Computer Science Principles [1.0]</td>
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<td>□ Educational Leadership [0.5]</td>
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<td>□ EdTech Repair [1.0]</td>
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<td>□ Geology [0.5] †</td>
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<td>□ Geometry in Construction [1.0]</td>
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<tr>
<td>□ Honors STEM [1.0] *</td>
<td></td>
</tr>
<tr>
<td>□ Internship [0.5]</td>
<td></td>
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<tr>
<td>□ Intro to Business [0.5] †</td>
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<tr>
<td>□ Intro to Computer Science [0.5]</td>
<td></td>
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<tr>
<td>□ Intro to Robotics [0.5]</td>
<td></td>
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<tr>
<td>□ Physics or AP Physics [1.0] **</td>
<td></td>
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<tr>
<td>□ Principles of Engineering [0.5]</td>
<td></td>
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<tr>
<td>□ Public Speaking [0.5]</td>
<td></td>
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<tr>
<td>□ Robotics Engineering [0.5]</td>
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<tr>
<td>□ Shell Eco Challenge [0.5]</td>
<td></td>
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<tr>
<td>□ Statistics (AP or CU Succeeds) [1.0]</td>
<td></td>
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<tr>
<td>□ Technical Writing [1.0]</td>
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</tbody>
</table>

* Can only be used once in either Foundation or Supporting.

Potential Majors
- Architecture
- Construction Management
- Engineering (Chemical, Civil, etc.)
- Mathematics
- Science
- Statistics

Related Careers
- Aerospace Engineer
- Architecture
- Automotive Engineer
- Chemical Engineer
- Civil Engineer
- Construction
- Drafter
- Electrical Engineer
- General Contractor
- Highway Maintenance
- Mathematician
- Mechanical Engineer
- Mining & Geological Engineer
- Petroleum Engineer
- Robotics
- Statistician
- Surveying/Mapping
- Technician

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

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

* Recommended for advanced or GT students. † Dual credit option.