



November 16, 2010

Dear STEM applicant,

We are pleased with your interest in the STEM (Science, Technology, Engineering, and Mathematics) program at Berthoud High School. The design of the Berthoud STEM program prepares you for a post-secondary workforce skills and education in science, mathematics, engineering, or technology. This program encourages you to stretch your accomplishments in an academic environment of rigorous coursework where you can thrive and excel. Additionally, you will graduate from Berthoud High School with a differentiated designation in STEM and a senior mentorship experience.

The STEM program will enrich your high school experiences as you engage in special field trips to universities and companies, and competitions. Guest speakers and seminars will expose you to exciting and financially rewarding career possibilities. The STEM program has formed unique partnerships with professionals such as National Jewish Hospital Denver, American Institute Mathematics Palo Alto, California and UCAR in Boulder. These fine organizations and others are willing to partner with and to provide seniors in the program with invaluable mentorships involving real world, cutting edge research.

Our small school creates an environment where teachers and counselors get to know you personally and help you make this a gratifying and successful experience. The partnerships formed with staff, students, parents, businesses and research institutions help to find you a mentorship placement that fits well with your interests and career goals. Additionally, your college and scholarship applications are enhanced by your mentorship experience.

There is space for 25 incoming freshmen for the 2011-1012 school year. Your completed application must be submitted by the December deadline. It can truly be a gratifying experience! We look forward to hearing from you soon.

Sincerely,

Kristal Domenico/Jane Ballard

STEM coordinators
Berthoud High School
850 Spartan Avenue
Berthoud, Colorado 80513
(970) 613 7700 Fax 7728

Berthoud High School
Science Technology Engineering Math
Cover Sheet

Application Deadline

Friday, December 10, 2010, 3:00 pm. Incomplete or late applications will not be considered for the 2011-2012 school year. You will be notified by letter of your status in this program in January 2011.

Checklist:

- _____ Complete the Application form. Both guardian and student must sign and date the application.

- _____ Obtain copies of your transcript, most recent CSAP scores, and a current report card to attach to this application.

- _____ Complete handwritten statement and attach to the application.

- _____ Ask two (2) references to recommend you for this program. (Counselor and/or teacher who can testify to your passion, creativity, work ethic, in the areas of math, science, and technology)

- _____ Sign and date the recommendation forms prior to giving them to your two references. Prepare two (2) Pre-addressed stamped envelopes (see address below*)

- _____ Instruct your references to fill out the **confidential** recommendation form and mail these in the envelopes you provide.

Confidential References (2)

Name	Name
Address	Address
Phone	Phone
Email	Email
Position	Position

- _____ Return Cover Sheet and Completed Application to
* **STEM Coordinator**
Berthoud High School
850 Spartan Avenue
Berthoud, CO 80513

Berthoud High School
Science Technology Engineering Math
2011-2012 STEM *Application*

Applicant Name _____ (nickname) _____

Address _____
Street or PO Box Town State Zip Code

Phone _____ Email _____

Current Grade Level _____ Current Overall GPA _____

Current School

Name _____

Address _____

Telephone _____

Principal _____

Counselor _____

Guardian (1) _____ Guardian(2) _____

Address _____ Address _____
Street PO Box Town State ZIP Street PO Box Town State ZIP

Phone _____ Phone _____

Email _____ Email _____

Please highlight or circle the best way to contact you

Student STEM & Post-Secondary Career Ambitions:

Applicants please include a brief (1/2-1 page) **handwritten** statement about personal goals for your participation in the STEM program and your areas of interest. Attach this paragraph to the application.

Post-Secondary Goals: Check all that apply.

_____ 2yr College _____ 4yr College
_____ Technical Program _____ Apprenticeship
Other _____

Post-Secondary Career Interests

1 _____ 2 _____ 3 _____

Student Signature _____

Date _____

Guardian Signature _____

Date _____

Counselor/Teacher **Confidential** Evaluation
 Berthoud High School Science Technology Engineering Math Focus Program Applicants

Student Name _____ Date _____

Evaluator Name and Title _____

1. How long have you known this student and in what context?

2. What are the first words that come to your mind to describe the student?

3. Ratings

Compared to other students in his/her class year, how do you rate this student in terms of:

No basis		Below Average	Average	Good (above average)	Very good (well above average)	Excellent (to 10%)	Outstanding (top 5%)	One of the top few encountered in my career
	Academic achievement							
	Intellectual promise*							
	Quality of writing							
	Creative, original thoughts							
	Productive class discussion							
	Respected by faculty							
	Disciplined work habits*							
	Maturity							
	Motivation							
	Leadership							
	Integrity							
	Reaction to setbacks							
	Concern for others							
	Self-confidence							
	Initiative, independence*							
	Overall							

*Please evaluate these areas carefully.

4. Evaluation: Please give any additional information that you think is important for considering this student for the BHS STEM Program.

Evaluators please fill out this evaluation form with the understanding that it is **confidential**.
 Return this evaluation form directly to Berthoud High School, 850 Spartan Avenue, Berthoud CO 80513, Attention: Jane Ballard/Kristal Domenico, STEM Coordinators. The due date for these evaluations is Friday, December 10th, 2010.

 Evaluator Signature Date

I waive my right to access, and I understand I will never see this recommendation.
 This recommendation is not a part of the student's permanent record and will be discarded upon graduation or withdrawal from the Berthoud High School STEM program.

 Student Signature Date Parent/Guardian Signature Date

STEM Program Course Requirements**Class of 2013-2014**

Curriculum Focus	Required Credits	Course Name	Credits	Grade level
Science	6.0	Pre-AP Geophysical Science	1.0	9
		Biology	1.0	9
		AP Biology	1.5	10
		Chemistry II	1.0	10
		AP Chemistry or AP Physics	1.5	11, 12
Math	4.0	Geometry	1.0	8, 9
		Algebra II	1.0	9, 10
		Trigonometry	1.0	10, 11
		AP Statistics	1.0	11, 12
		Recommend: Calculus or AP Calculus	1.0/1.5	11, 12
Language Arts	4.0	English 9	1.0	9
		English 10	1.0	10
		English 11	1.0	11
		English 12	0.5	12
		Speech	0.5	11, 12
Social Studies	3.0	Civics	0.5	9
		World Geography or AP Human Geography	1.0	10
		Modern America or AP US History	1.0	11
		Economics	0.5	12
Physical Education	1.0	Health	0.5	9
		Fitness	0.5	9
World Language	1.0	Spanish		
		French		
Applied Arts	0.5	Project Lead the Way		
		Business		
		Consumer and Family studies		
		Industrial Tech		
Fine Arts	0.5	Music		
		Art		
Interest Pathway	4			