



850 Spartan Avenue • Berthoud, CO 80513 • Office (970) 613-7700 • Fax (970) 613-7729

## Thompson Teaching and Learning

### Educational options: Math/Science Focus Program

While BHS provides an excellent education in all curricular areas, one of its options is the Math/Science Focus Program, which offers an opportunity for advanced learners. In the area of math and science, Berthoud High School is proud of its outstanding faculty and curriculum in addition to its regionally respected Little Thompson Observatory, and Thompson River Project. Because of the math and science department's strength, Berthoud High School has partnered with AIMS Community College to add additional curricular offerings and an increased level of rigor and relevance for students who have the aptitude and passion to explore a career path in math, science, or both. World competition in the area of math and science has prompted the Federal Government to encourage schools at all levels to increase math and science exposure to students ensuring that the United States maintains its leading world edge. Berthoud High School is committed to that vision and to an ongoing goal of providing a curriculum of rigor and relevance.

#### Characteristics of the Math/Science Focus Program

- ◆ **Differentiated High School Diploma** — Students who successfully complete all high school requirements for graduation in addition to the required courses in the Math/Science Focus will receive a differentiated diploma which identifies that student's commitment to the field of math and science at Berthoud High School.
- ◆ **Junior and Senior Research Project** — Students who commit to the Math/Science Focus at Berthoud High School will be required to complete a research project or internship with higher education or industry in the area of math and science by the end of their senior year.
- ◆ **High School Diploma and Associate of Arts Degree** — In partnership with AIMS Community College, Berthoud High School will provide an outreach center for AIMS college courses. Students will be able to enrich their curricular exposure in math and science leading to a differentiated diploma, but with dedication and hard work, students can graduate from Berthoud High School with a college Associate of Arts degree (first two years). ***The Associate of Arts option is available to all Berthoud High School students***

#### Math/Science Required Courses (High School & College)

The following are the required math/science courses that will guide students through a rigorous course of study in math and science leading to a differentiated high school diploma at graduation:

### ***Grade Math Science***

9<sup>th</sup> Geometry (1.0) Earth Science (1.0)  
Biology (1.0)  
10<sup>th</sup> Algebra II (1.0) Chemistry (1.0)  
AP Biology (1.0)  
11<sup>th</sup> & 12<sup>th</sup> Trigonometry (1.0) Genetics (.5)  
AP Statistics (1.0) Astronomy (.5)  
Calculus (1.0) AP Physics (1.5)  
AP Chemistry (1.5)  
Anatomy/Physiology (1.0)  
General Physics (1.0)  
Environmental Science (1.0)  
Thompson River Project (1.0)  
Senior Seminar (1.0)

During the junior and senior year, math/science focus students must complete at least 2.0 credits of science per year (see list above). At least two of the science courses must be Advanced Placement. In addition to the math and science requirements, each student must satisfactorily pass the Senior Seminar course. This course can be waived with the appropriate college course work (see above)

### **Keys to success:**

#### **AP Courses and AIMS Matriculation**

◆ Advanced Placement (AP) classes offered at Berthoud High School and throughout the district will convert to three college units at AIMS Community College if AP test scores are three and above and only after the High School student has enrolled in AIMS Community College and successfully completed course work toward the Associate Degree.

For information, contact BHS at 970-613-7700.