



## Camas High School

# Math • Science • Technology Magnet

2014 - 2015 PROFILE

### STAFF:

- **ELLISE ANDERSON (PRINCIPAL)**
- **ALAN BOHAC (MATH)**
- **JENNIFER DEAN (SCIENCE)**
- **SAM GREENE (ENGLISH)**
- **LEONTINA LIEBE (COUNSELOR)**
- **GREG MCGOWAN (ENGLISH)**
- **KIM NEWMAN (SCIENCE)**

### Admissions

Each year approximately 32 students are selected through a competitive process to join the Camas MST Magnet program. Students who have an aptitude and demonstrated interest in math, science, or technology are encouraged to apply. The application process includes evaluation of student academic achievement, admission test scores, essays, teacher recommendations, on demand writing sample, and an interview with MST staff members. The volume of information is then evaluated holistically to find the best candidates. Approximately 30% of applicants are accepted each year into the program.

## Inspire • Innovate • Investigate

The primary goal of the Camas High School Magnet program is to instill the underlying values, skills, and behaviors that enable students to enter colleges of their choice and undertake careers in the fields of math, science, technology, and engineering. The program provides students with opportunities to learn the research process, practice collaborative inquiry, conduct authentic scientific research, and complete an internship in an area of interest. The experience positions students to achieve success at institutes of higher learning.

The Magnet program is distinguished by a strong research strand woven

throughout all four years of instruction, culminating in annual research showcases and a senior research investigation that is



Austin Miller and Kyle Binder interning as Civil Engineers.

conducted through an internship done in partnership with local businesses,

industry partners, and universities. Highly qualified faculty members foster advanced exploration of math, science and engineering topics. Students at all levels are exposed to integrated, advanced course work that explores real-world problems.

This Magnet program model is built around principles endorsed by the National Consortium for Specialized Secondary Schools of Mathematics, Science, and Technology (NCSSSMST). The Magnet program is a member of the NCSSSMST and has used their principles as well as used some of the premier STEM schools as a model to help our students reach their potential.

## Student Research and Internships

At the heart of the coursework in the Magnet program is a year-long, team-based research and investigation project. This project is the vehicle by which students learn the specific skills related to the research process, and apply the learning from core Magnet math, science, English and engineering classes. Students present their research and findings

at in a number of settings, including national and statewide science competitions, presentations for local businesses and universities and an end of the year research symposium presented to the community of Camas.

At each grade level, students practice, refine, and hone the skills required to complete the research

process. Each year of the program represents an opportunity to go deeper with the process and build confidence in their ability to conduct authentic research. This process culminates in the senior year where students work with experts in the field of their choice and participate in a hands-on internship while developing their senior research project.

## MST Senior Reesab Pathak is Finalist for the Intel Science Talent Search



Meghal Sheth wins 3rd place in category at ISEF 2014

Magnet Senior Reesab Pathak was named as a finalist in the Intel Science Talent Search 2015. Mr. Pathak conducted an internship over the last year and a half at [OHSU](#) where he worked on a research team to better understand HIV. His work there, including a recent [co-author](#) credit in a study published in the December 2014 *Journal of Immunology*: [Universal, MHC-E re-](#)

[stricted killer T cell responses: Identification of a novel immune response against HIV](#), was the basis for his selection as a finalist.



Pathak recently traveled to Washington D.C. as part of

his being named a 2015 finalist in the Intel Science Talent Search 2015. Shown in the picture (left), President Barack Obama greets the 2015 finalists, including our very own Reese (second from right), who will be attending



## Awards and Recognition

Students are encouraged to present their research findings and demonstrate their knowledge in many different ways. Magnet students have been involved in many activities that have led to recognition in a variety of areas. This is a partial list of accomplishments by Magnet students:

WSU Imagine Tomorrow Competitions: Multiyear award winners including multiple first, second and third place awards totaling over \$50,000 for students and the program.

SEF: 3 students have competed at the ISEF (2014, 2015)

Science Olympiad: State Champions, National finalists, Individual national champions (2011-2015))

Knowledge Bowl: State Champions (2011 & 2012)

First Robotics: Regional champions, National finalists (2011 & 2012, 2015)

## Industry Partners:

- ◆ OHSU
- ◆ Reed College
- ◆ Portland State
- ◆ WSU-Vancouver
- ◆ Hewlett Packard
- ◆ Underwriters Lab
- ◆ City of Camas
- ◆ Rebound
- ◆ CID Bioscience
- ◆ VA Hospital
- ◆ Kaiser Permanente
- ◆ Marger and McCollum

## MST Statistics

First Graduating Class: 2010

Average GPA: 3.87

National Merit Scholars: 8

ACT (mean scores): 31.4

WA state: 23

SAT (mean scores): 2063

WA state: 1601

AP Pass rate: 92%

WA state: 61.9%

AP Biology: 3.61

WA state: 3.03

AP Environmental Science: 4.06

WA state: 2.78

AP Calculus A/B: 4.00

WA state: 3.05

AP Calculus B/C: 4.25

WA state:

AP US History: 4.33

WA state: 2.81

AP World History: 3.62

WA state: 3.72

AP Language: 4.50

WA state: 3.0

## Universities Attended/Attending

- Air Force Academy
- Arizona State
- Boise State
- Brigham Young
- Cal Poly SLO
- CalTech
- Carnegie Mellon
- Cornell
- Creighton University
- Duke
- George Washington Univ.
- Georgia Tech
- Gonzaga Univ.
- Idaho State
- John Hopkins Univ.
- Lehigh Univ.
- Lewis and Clark College
- Montana State
- New York University
- Notre Dame
- Princeton
- Seattle Pacific Univ.
- Stanford
- UC Berkeley
- University of Hawaii
- U.S. Naval Academy
- UC Berkeley
- UC Davis
- University of Arizona
- UCLA
- University of Pennsylvania
- University of Portland
- University of Richmond
- University of Washington
- University of Wyoming
- USC
- U.S. Navy
- Washington State
- Washington University
- Wellesley College
- West Point
- Willamette University
- Yale