

► Summer Institute 2011

Technology

PREPARING FOR AP COMPUTER PROGRAMMING #IT2 Fee: \$140.00

Date: July 19–23

Time: 8am - 12pm

Target Audience: Students who have completed Computer Programming 1 who want to re-enforce their problem solving skills before entering Computer Programming 2

Description: The purpose of this course is for students who are enrolled in Programming 2 who have already completed Designing Technology Solutions or Computer Programming 1 and would like a refresher on previously learned skills while also learning

a few new concepts that will help them be even more successful during their fall semester. Students will complete multiple small projects in teams per day to help them continue to build their problem solving techniques Non-credit course.



Wootton High School

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Thomas S. Wootton Summer Institute 2011



Patriots

► Course Offerings Summer 2011

The mission of Wootton's Summer Institute is to provide every student with the opportunity to continue their education and improve upon their academic skills throughout the summer in order to prepare them for advanced educational opportunities offered at Wootton and at the collegiate level.

Come join in the fun!

Courses for students attending Wootton High School during the 2011-2012 school

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In the event of an extension of the school year some dates will be adjusted. If a change is needed you will be notified individually.

**Dates and fees of Honors Geometry A/B, Health, Astros matter & Energy B Honors, Research Project and Honors Chemistry could vary pending a decision by the Board of Education in March 2011. This information will be updated on our website* as soon as possible.

* <http://montgomeryschoolsmd.org/schools/woottonhs>

Wootton High School

INTRODUCTION TO HONORS PHYSICS #SCI 2 Fee: \$140.00

Date: June 20 - 24 Time: 9:00am- 1:00pm

Target Audience: Students who are entering their first year of physics.

Description: Strong emphasis will be placed on improving problem-solving and mathematical skills essential for physics. Students successfully completing this course will be able to better understand how to solve physics related word problems, including visualizing and sketching the problem, identifying relevant and solicited information, and applying mathematics to solve the problem. Topics covered will include: measurement, position, velocity, acceleration, as well as solving simultaneous equations, scientific notation, international systems of units, unit conversions, trigonometric functions. Non-credit course.

PRE-AP BIOLOGY #SCI3 Fee: \$140.00

Date: July 25th –29th Time: 9:00am- 1:00pm

Target Audience: Designed for students who have enrolled in AP Biology for the fall.

Description: This course is for students who wish to strengthen the foundation built in Honors/Regular Biology. Students will review important biological concepts and learn skills that will prepare them for the rigor of an AP course. This course is recommended for students who have not taken a biological science in a year or more who wish to increase their confidence with biology. Includes lab work. Non-credit course.

PRE-AP ENVIRONMENTAL SCIENCE #SCI4 Fee: \$140.00

Date: August 8th – August 12th

Time: 9:00am- 1:00pm

Target Audience: Designed for students who have enrolled in AP Environmental Science in the fall or who have strong interests in the environmental sciences in the field.

Description: AP Environmental contains a large number of scientific disciplines and this course will highlight several of them, but will focus on a major topic each day and will include laboratory and field studies. The course will also emphasize problem solving strategies and will highlight important strategies for being successful with math involved in AP Environmental. Topics will include air pollution, water pollution, species diversity/habitat loss, and climate change. Non-credit course.

**** RESEARCH PROJECT #8041** Fee: \$300.00

Date: June 22 - July 8 with presentation on August 1th or 2th (8am–noon)

Time: 8:10am-2:00pm

Target Audience: Rising 10th-12th grade students.

Description: Students will complete research projects in science based on an approved proposal including the use of technology. All students work independently outside of the school facility with the guidance of their instructor and a mentor/supervisor. Requirements include the completion of a journal, project display, oral presentation, and final paper. STARS Program candidates are given preference. ½ credit course.



Others Cont'd

SIP WORKSHOP

Fee: \$140.00 + Field Trip Cost

Dates: Session 1 June 20 - 24 #SIP1
 Session 2 July 18 - 22 #SIP2

Course Time: 8:30-11:30am plus a field trip to the University of Maryland
 Target Audience: Rising seniors in the Humanities and Arts Program.

Description: This course will give students the opportunity to work on their Senior Independent Project before the hectic senior year begins. We will research using various databases and go on field trips to the libraries at Montgomery College and the University of Maryland. By the end of the course, students will have completed much of their research for their project and written the thesis paragraph for the paper. Please register for only ONE session. Non-credit course.

Science

ASTROS MATTER AND ENERGY B HONORS #3765**

Date: June 27 - July 18 (no class July 4th) Fee: \$300.00

Time: 8:10am-1:00pm

Target Audience: Rising ninth graders taking Honors Chemistry, who have completed Geometry, and have grades of A and B's in eighth grade science and math courses.

Description: To prepare incoming 9th grade students for the rigors of Honors Chemistry. ½ credit course

INTRODUCTION TO HONORS CHEMISTRY #SCI 1 Fee: \$140.00

Date: June 20th—24th

Time: 8:00am- 12:00pm

Target Audience: Students who wish to develop their laboratory skills and problem solving skills in some of the main topics for first semester honors chemistry.

Description: The course will use demonstrations to focus discussions and connect to real world problems like acid rain and global warming. This course will give you confidence as you begin your study of honors chemistry in the fall. Come learn about real gas pressure with no grade or homework pressure. Non-credit course.

HONORS CHEMISTRY**

Fee: \$310.00 per session

Date: Session A June 24th—July 15th #3711
 Session B July 19th - August 5th #3712

Time: 8:00am- 1:00pm

Target Audience: Rising 11th-12th grade students. Students needing chemistry pre-request for fall science class enrollment given preference. Limited to one class section.

Description: To provide honors chemistry credit for students who need this pre-requisite for enrollment in higher level science classes in the fall. Course expectations are consistent with Honors Chemistry MCPS Curriculum. Both semesters must be taken in the summer. 1/2 credit per semester.

English

BRIDGE TO AP LANGUAGE

Fee: \$140.00

Date: August 1 - 5 #ENG1
 Time: 8:00am - 12:00pm

Target Audience: Students enrolled in AP Language for 2011-2012.

Description: This course is designed to address the rigors and challenges of taking a college-level English course. The course will help students develop a keen awareness of rhetoric. Students will examine non-fiction, discuss rhetorical strategies, and how they are used effectively, and write a persuasive essay. Non-credit course.

WRITING THE HIGH SCHOOL ESSAY

Fee: \$140.00

Date: Session I: June 20 - 24 #WR01
 Session II: June 27- July 1 #WR02
 Session III: July 11- 15 #WR03

Time: 8:00am- 12:00pm

Target Audience: Rising 9th grade students only. Please register for only ONE session.

Description: This one week preparatory course is designed to enhance the writing skills of incoming 9th graders. Students will work with a Wootton English teacher to develop a mastery of the step-by-step process of constructing an essay. Non-credit course.

WRITING THE HIGH SCHOOL ESSAY PART II

Fee: \$140.00

Date: Session I: June 20 - 24 #WR04
 Session II: June 27 - July 1 #WR05

Time: 8:00am- 12:00pm

Target Audience: Rising 10th grade students only. Please register for only ONE session.

Description: This course is designed specifically for rising sophomores to help deepen students' ability to think and write analytically. The focus of this course is to help students understand how to successfully analyze texts in their writing. This course will also guide students in developing their own personal style of writing. Non-credit course.

WRITING THE COLLEGE ESSAY

Fee: \$140.00

Date: Session I: July 11 -July 15 #WR06
 Session II: July 18 - July 22 #WR07
 Session III: July 25 - July 29 #WR08
 Session IV: Aug 1 - Aug 5 #WR09

Time: 8:00am- 12:00pm

Target Audience: Rising 12th grade students only. Please register for only ONE session.

Description: If you would like to get a jumpstart on the college essay writing process, this one week course is for you. Students will look at college essay topics from the common application and from other universities and receive tips and suggestions for crafting their essays. This course will help you brainstorm, draft, and revise your college essay. This course supplements the "Ready for College" course. Non-credit course.



► Summer Institute 2011

Health

HEALTH **

Updated Fee: \$310.00

Date: Session A June 20 – July 8 (no class July 4th) #7835A
 Session B July 12 - July 29 #7835B

Time: 8:10am- 1:00pm

Target Audience: Rising tenth grade students interested in achieving their Health credit early, or upper classman who need to take Health due to graduation requirement. Please register for only ONE session.

Description: Students address issues in seven topics that include: mental health, tobacco, alcohol and other drugs, family life and human sexuality and disease prevention and control. $\frac{1}{2}$ credit course.

Math

ALGEBRA 2 PREP #M2

Fee: \$100.00

Date: August 8th-11th

Time: 8:30 - 10:30am

Target Audience: Incoming Algebra 2 students

Description: The objective for each prep course is to review prerequisite knowledge for the upcoming course and to present portions of the material for the new course to familiarize the students with upcoming concepts in order to help students be more successful. Non-credit course.

CALCULUS PREP # 3200

Fee: \$100.00

Date: August 8th-11th

Time: 8:30am-10:30am

Target Audience: Incoming Calculus students.

Description: The objective for each prep course is to review prerequisite knowledge for the upcoming course and to present portions of the material for the new course to familiarize the students with upcoming concepts in order to help students be more successful. Non-credit course.

HONORS GEOMETRY**

Fee: \$300.00 per session

Date: Session A June 27th - July 15th (no class July 4th) #3203
 Session B July 19th—August 5th #3204

Time: 8:00am- 1:00pm

Target Audience: For rising 9th and 10th graders. Students must have received a grade of an A or B in 8th grade Algebra 1, or a grade of an A in 9th grade Algebra 1. Please include a copy of your most recent report card and a recommendation from current Math teacher with your application.

****Both semesters of Honors Geometry MUST be taken during the summer.****

Description: Students will develop a knowledge base in Geometry that will prepare them for Honors Algebra 2. $\frac{1}{2}$ credit per course.

Wootton High School

PRECALCULUS PREP

Fee: \$56.00

Course Date & Times: August 8th-11th 11:00am- 1:00pm #M1

Target Audience: Incoming Pre calculus students. Please register for only ONE session. Description: The objective for each prep course is to review prerequisite Knowledge for the upcoming course and to present portions of the material for the new course to familiarize the students with upcoming concepts in order to help students be more successful. Non-credit course.

COHORT ALGEBRA PREP

Fee: \$84.00

Course Date & Time: Session 1: June 20th-23rd 8:00am-11:00am #M3
 Session 2: July 11th-14th 8:00am-11:00am #M4
 Session 3: August 15th- 18th 8:00am-11:00am #M5

Target Audience: The sessions will consist of review of Algebra 1 topics and a preview of Algebra 2 topics. This course is designed to prepare cohort students for a successful year in Algebra 2. Non-credit course.

Others

JUMP START

Fee: \$100.00

Date: June 20 - July 1 #JS

Course time: 8:00 - 11:30am

Target Audience: Rising 9th grade students, enrolled in on level courses, who would like to get a head start on their high school career.

Description: The Jump Start Program is designed for students who want & need to get a jump start on their high school career. Through this program, the student will get introductory lessons in high school English, Math, Social Studies and Science. Incoming 9th graders are invited based on the recommendation of their middle school counselors and teachers. Non-credit course. Questions, contact Joan Goldstein (301) 517-8171.

READY FOR COLLEGE

Fee: \$105.00

Course Date and Time: June 27-July 1 10:00am - 1:00pm #C1
 July 18 -22 9:00am - 12:00pm #C2
 July 25- 29 1:00pm - 4:00pm #C3
 Aug 1-Aug 5 9:00am - 12:00pm #C4
 Aug 8-Aug 12 12:00pm - 3:00pm #C5

Target Audience: Rising Seniors only. Class size is limit is 22 students per class.

Description: By the end of this class students will:

Complete actual college applications from beginning to end.

Write a personal essay to be used for applications.

Interview strategies.

Individually review & discuss college lists with each student/Review testing.

Know exactly how to navigate the entire college application process and what needs to be done at Wootton/Transcript requests/Teacher recommendations/Using Naviance/Self evaluations.

Please register for only ONE session. This course supplements the "Writing the College Essay" course. Non-credit course.