

2011 Advanced Placement[®] Summer Institute

August 1-5, 2011

Bentley University • John W. McDevitt Middle School
Waltham, MA



COURSE INFORMATION

Courses marked (Experienced) are geared towards AP* teachers with 3 or more years of experience teaching that AP course. Courses marked (New) are for AP teachers with less than 3 years of experience teaching that AP course. Calculus, Computer Science, Statistics, Environmental Science and Physics are open to all levels of experience.

BIOLOGY (EXPERIENCED)

Instructor: Elizabeth Cowles

This course is intended for teachers with at least 3 years of experience teaching AP Biology. Participants will review the new curriculum and some of the new laboratories. Participants will discuss inquiry-based teaching approaches and talk about the skills students need to succeed in college.

BIOLOGY (NEW)

Instructor: Carol Leibl

This course is designed for the teacher who is relatively new to AP Biology or is looking for a better basic understanding of the curriculum and labs. The workshop will address an overview of the curriculum, pacing and setting up a schedule, the AP exam and essays, instructional resources and the 12 published labs. The participants will be setting up a variety of the labs and act as their students would in class. Participants will do the experiments, collect data, graph and reach conclusions and discuss the lab reports.

CALCULUS AB (EXPERIENCED)

Instructor: William Scott

This course is for teachers with at least 3 years of experience teaching AP Calculus AB. The course is designed for a more in-depth look at calculus concepts. The course will include exploration of both curriculum and pedagogy, and will help to deepen and/or refine your understanding of important and/or difficult topics.

CALCULUS AB (NEW)

Instructor: Wanda Savage

This course will include going over the many topics in the AP course description/syllabus for Calculus AB. Discussions will also include pacing of the course, many resources, grading, rubrics, and will give examples of how to teach the difficult topics/concepts that are part of the AB curriculum.

CHEMISTRY (EXPERIENCED)

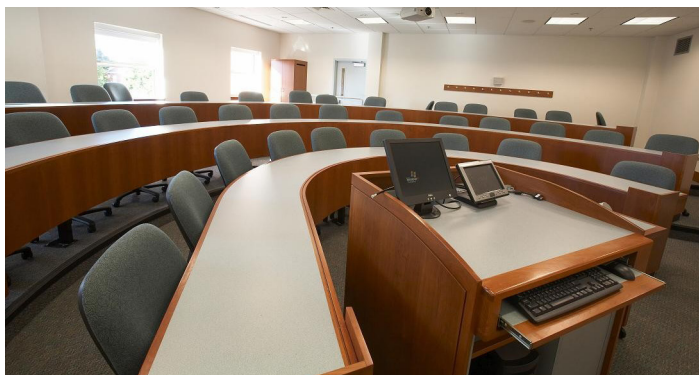
Instructor: David Hostage

This course is focused on helping experienced teachers of Advanced Placement Chemistry enhance their teaching methods to increase student participation and understanding of rigorous material. In addition, relatively cheap technology used to help kids who are absent and kids with learning differences will be demonstrated.

CHEMISTRY (NEW)

Instructor: Rene McCormick

In this course, designed for teachers beginning a career as an AP Chemistry teacher, participants will explore the nature of the AP program and look at how to structure an AP Chemistry course. Lab experiments will be discussed, and participants will do a number of labs appropriate for AP Chemistry. The



course will make considerable use of the graphing calculator and the calculator-based laboratory as a data-collection device. Typical AP problems and essays will be discussed and strategies for enabling students to perform well on the AP exam will be shared.

COMPUTER SCIENCE

Instructor: Leon Schram

This course is designed for AP Computer Science teachers who are teaching for the very first time as well as veteran teachers with more than 20 years of experience. Teachers will participate in a fast paced course with many hands-on activities. The most important focus of the course revolves around the Grid-World Case Study and Free Response Exam preparation. A new Gridworld Case Study Training Manual - based on three years of using the case study - will be presented to help teachers and students in better understanding the Gridworld Case Study to learn computer science and prepare for the AP Exam. The second major focus of the course is on method writing strategies that take the mystery out of the free response section of the exam.

ENGLISH LANGUAGE (EXPERIENCED)

Instructor: David Jolliffe

The course will begin with an extensive overview of the classical rhetorical theory that underlies the Advanced Placement English Language and Composition Examination—the multiple-choice section and all three free-response questions—and that should sit at the center of AP English Language and Composition instruction. Participants will learn about and practice principles of rhetorical analysis, then learn about and practice principles of rhetorical argumentation. Next, the course will focus on best practices of teaching close, critical reading and effective, genre-flexible writing in AP courses. After that, participants will learn about and develop rich, thematic inquiry units that embody rhetorical analysis, argumentation, and synthesis. Finally, participants will study how to build an ongoing, effective assessment culture in their courses and schools.

ENGLISH LANGUAGE (EXPERIENCED)

Instructor: Bernard Phelan

This course will focus on the core areas for any AP English Language course: Rhetoric and Argument. Initially, teachers will explore and delineate rhetorical and argumentative theory, then apply these theories to short texts. As participants transition to a full day on the subject of teaching the reading of non-fiction, they will apply theory to full essays, then unpack definitions of reading from AP multiple-choice questions as they work toward

a methodology for teaching reading. By mid-week, participants delve into writing, focusing at first on last year's questions and samples, then on broader topics of writing process. The discussion will segue into assignment design, assignment sequencing, and assessment issues. Teachers will also attempt to tackle the issue of curriculum, to modify existing practice, and to show how they might do some parts of their course differently for the upcoming school year.

ENGLISH LANGUAGE (NEW)

Instructor: Elizabeth Priem

The purpose of this AP Language course is to provide teachers with the strategies and tools they will need to help their students become more effective readers, better writers, and mature thinkers. Teachers will become familiar with the three types of essays on the exam: rhetorical analysis, persuasion, and synthesis. In the rhetorical analysis, they will learn strategies for helping students learn to detect patterns of language in a nonfiction piece. For persuasion, they will learn techniques for helping students develop a cogent argument, argue from logic, develop their own ethos as a writer, and use pathos for good effect. For synthesis, teachers will read a wide range of essays dealing with one's self-identity and, choosing three of the textual sources and two of the visual ones, write a synthesis essay themselves after developing a thesis about one's self-identity. Additionally, teachers will work through released essay prompts and two released multiple choice passages each day of the course.

ENGLISH LITERATURE (EXPERIENCED)

Instructor: Pat Sherbert

The purpose of AP English Literature is to provide the academic study needed for the motivated senior to do college-level work in high school. Since these students will be petitioning for college credit through the AP Literature exam given each May, the content of this course is closely aligned with English course offerings in universities and colleges. In this course, experienced AP teachers will review elements and contribute practiced methods for teaching genre literature. Teachers will use the 2009 Released Multiple Choice and the 2011 AP English Literature Free Response Exams to review multiple approaches to writing and to analyze close reading techniques. Using selected authors from the sixteenth century to contemporary times, participants will experience how to generate useful assignments for their students. All material will reflect the importance of understanding the literary genres of fiction, non-fiction, verse, and drama.

ENGLISH LITERATURE (NEW)

Instructor: John Williamson

This course will focus on teaching a course in AP English Literature and Composition. Participants will thoroughly cover the exam; its structure, level of difficulty, past exams, and ways to enable students to succeed. Participants will have the opportunity to score and discuss sample essays from all three of the free response essays on the 2011 exam and to discuss composition strategies for the AP classroom. Participants will discuss scoring rubrics, readers' insights, and how to help students to succeed on all sections of the exam. They will also examine the skills students need to succeed on the multiple choice section as well as suggestions for effective practice. Course emphasis

will be placed on methods and materials teachers can use to facilitate student mastery of these skills.

ENVIRONMENTAL SCIENCE

Instructor: Brian Palm

In addition to scaffolding a robust approach to the AP Environmental Science course, participants will spend time working with key concepts; developing and sharing ideas for promoting the range of skills required for success on the AP. Participants will perform labs and activities that can easily be translated into their own classroom teaching. Labs include soil and water testing, electricity monitoring, population studies, energy movement within an ecosystem, tragedy of the commons, waste water treatment, and mining. Beyond this work, you and your colleagues will share a variety of electronic resources as well as innovative strategies for instruction. Participants will receive electronic versions of each lab, PowerPoint presentations as well as lists and links to all internet resources. This material will provide a valuable resource for starting a new AP Environmental Science course. Ideas for supplemental reading, suggested articles, and videos will accompany the distribution of textbook samples.

PHYSICS

Instructor: Jiang Yu

This AP Physics course is to provide an opportunity for participants to familiarize with the AP Physics program, and to meet and share ideas with others who are developing or teaching the AP Physics course. The primary focus is to help prepare participants to teach the AP Physics course successfully, with strategies and resources including course syllabi auditing, class pacing, lab practices, AP test development and grading. Participants should expect to review topics in mechanics, fluids, thermodynamics, waves and optics, electricity and magnetism, and atomic and nuclear physics as outlined in the College Board Physics course description.

STATISTICS (EXPERIENCED)

Instructor: Landy Godbold

In this course, participants will explore critical topics for student success on AP Statistics Exam. Participants will deepen their understanding of important and/or difficult topics through discussions, investigations and collaboration.

STATISTICS (NEW)

Instructor: Gloria Barrett

In this course, the topics will include going over the AP Course description/syllabus, pacing of course/time frame, outside resources, grading rubrics and communication, presentations, examples of topics/concepts that are difficult to teach, simulation, special focus on inference, and more.



ABOUT MASS MATH + SCIENCE INITIATIVE

The Mass Math + Science Initiative (MMSI), the state's largest high school math and science program aimed at underserved students, drives a school culture of high expectations and dramatically increases student participation and performance in AP courses to prepare students for college and career success in science, technology, engineering, and mathematics (STEM). MMSI is equally committed to raising standards and achievement in math, science, and English in middle schools, and helping school systems to co-align curriculum and instruction around MCAS and College Ready/AP/Pre-AP* standards. MMSI provides extensive training for AP and Pre-AP teachers through its Advanced Placement Training and Awards Program (APTAP) and its Advancing College Readiness (ACR) Initiative. For more information, please visit our website: www.massinsight.org/mmsi.

WHO CAN ATTEND 2011 MMSI APSI

The 2011 MMSI AP Summer Institute is open to all MMSI APTAP teachers who have attended less than two AP Summer Institutes since entering the APTAP, and will be teaching at least one AP course (math, science, English) in school year 2011-12.

Following registration of MMSI APTAP teachers, registration will open to teachers from MMSI's GSN and teachers from other schools outside both of these programs.

TWO LOCATIONS FOR 2011 MMSI APSI

Biology (New) and Chemistry (New) will be located at John W. McDevitt Middle School in Waltham, MA. All other courses will be located at Bentley University in Waltham, MA.

WHAT TO BRING

All participants are advised to bring a laptop. All math and science participants are required to bring a graphing calculator. Participants will receive a detailed e-packet via email approximately two weeks prior to the Institute that will list any additional materials/equipment that they should bring with them.

ON-CAMPUS ACCOMMODATIONS

On-campus accommodations will be provided through Bentley University. Meals: breakfast and dinner will be available at Bentley's campus dining hall, and lunch will be provided midday through the Summer Institute at both Institute locations. On-campus accommodations: single occupancy bedroom in suite style co-ed dormitory. Bedrooms are equipped with a desk, closet, bed, sheets, towels, and a blanket. Suites are equipped with a mini-fridge, sink, bathroom, and a furnished common area that is shared with other suitemates. Suites are not equipped with a television, coffeemaker or other typical kitchen appliances. All rooms/suites are moderately air-conditioned and have wireless internet access. If you have a preferred suitemate, please enter his or her name as you complete your online registration.

PLEASE NOTE: MMSI APTAP teachers are eligible for on-campus accommodations ONLY if they are outside a 50-mile radius of Bentley University (one way). This will be strictly enforced. GSN and non-MMSI teachers are eligible for on-campus accommodations if they have chosen to board, paid the appropriate registration fee and space permitting.

HOW TO REGISTER

MMSI APTAP teachers, please register here:
<http://www.2011mmsiapsi1.eventbrite.com>

All other teachers, please register here:
<http://www.2011mmsiapsi2.eventbrite.com>

REGISTRATION FEES

The following chart details the registration fees for the 2011 MMSI AP Summer Institute. Commuter fee includes tuition, lunch and materials. Boarder fee includes tuition, three meals, materials and on-campus accommodations.

	<i>Commuter Fee</i>	<i>Boarder Fee</i>
MMSI APTAP Teacher	no fee	no fee
MMSI GSN Teacher	\$900	\$1,000
Non-MMSI/Other Teacher	\$1,000	\$1,100

PAYMENT

Make checks payable to: Mass Insight Education.

Full payment is due at the registration desk on August 1st (if not mailed in advance to the address below) by personal, school, or district check. If you would prefer MMSI to bill your school or district directly, please include a PO# as you complete your online registration. This is an absolute requirement.

Mass Insight Education
ATTN: 2011 MMSI APSI
18 Tremont Street, STE 930
Boston, MA 02108

GRADUATE CREDITS

MMSI is pleased to offer three graduate credits through Cambridge College for a fee of \$175. Participants seeking to purchase graduate credits may be expected to complete additional coursework before and after the Institute. Participants will receive a detailed e-packet approximately two weeks prior to the Institute that will include additional information on graduate credits requirements.

Make checks payable to: Mass Insight Education.

Graduate credits fee is due at the registration desk on August 1st, if not mailed to MMSI in advance.

PROFESSIONAL DEVELOPMENT POINTS

MMSI is pleased to offer up to 35 professional development points for completion of this AP Summer Institute.

QUESTIONS?

Math: John Souther at jsouther@massinsight.org
Science: Jeff Goodwin at jgoodwin@massinsight.org
English: Wesley Chin at wchin@massinsight.org
2011 MMSI APSI: Wesley Chin at wchin@massinsight.org
ACR/GSN: Barbara Plonski at bplonski@massinsight.org

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