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www.columbusctl.com

# The Center for Teaching & Learning

OUR MISSION IS TO SUPPORT LEARNERS  
OF ALL AGES, AND THOSE WHO TEACH

## Join Other Educators for the 2010 AP\* Summer Institute Center for Teaching & Learning - Columbus Learning Center

### What:

AP\* Summer Institute courses at the Center for Teaching & Learning are designed for over 30 hours of intense instruction. These courses prepare AP\* teachers to meet the demands of AP\* curriculum and improve overall classroom instruction. Endorsed College Board\* consultants serve as instructors. Full participation is required for CTL completion verification, optional graduate credit from IUPUC, and/or Professional Growth Plan points.

### Where:

The Center for Teaching & Learning is part of the Columbus Learning Center located in Columbus, Indiana. Columbus is an award-winning city one hour south of Indianapolis off Interstate 65. You may wish to learn more about us by going to the CTL website ([www.columbusctl.com](http://www.columbusctl.com)) or the Columbus website ([www.columbus.in.gov](http://www.columbus.in.gov)).

**Registration: Register online at [www.columbusctl.com](http://www.columbusctl.com).**

**Early registration is \$449 through May 14, 2010.**

Regular registration is \$499. College Board\* materials are included.

Check brochure for registration deadlines.

**Save \$50  
Register by  
May 14, 2010**

**All sessions meet daily for 4 days – Monday through Thursday – 8 a.m. to 5 p.m.**



This AP Summer Institute  
has been endorsed by



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## Information

### Lodging:

Each participant makes his/her own arrangements.

**Make your reservations EARLY as Columbus hosts national sporting events during the summer.**

Request the CTL Corporate Rate at these hotels:

- Sleep Inn & Suites  
812.372.7200  
\$70 + tax
- Hotel Indigo  
812.375.9100  
\$99 + tax

Other conveniently-located accommodations:

- Hampton Inn  
812.526.5100
- Hilton Garden Inn  
812.526.8600
- Holiday Inn Express  
812.526.9899

### Payment Options:

- Pay by check, credit card, school purchase order or cash. Make check or PO payable to Center for Teaching & Learning.

### Credentialing Options:

- Graduate credit (**available at in-state rates**) through Indiana University-Purdue University Columbus (IUPUC).
- Professional Growth Plan points are available.

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## AP\* Human Geography – June 21 to 24

Judith Boyd Ware  
Fontbonne University  
St. Louis, MO

Register  
by June 4

AP\* Human Geography introduces the systematic study of patterns and processes that have shaped human understanding, use, and alteration of the Earth's surface. Spatial concepts and landscape analysis is used to examine human social organization and its environmental consequences. The AP\* course considers the following:

**Geography: Its Nature and Perspectives** - the importance of spatial organization, the location of places, people, and events, in the understanding of human life

**Population** - understanding the ways in which the human population is organized geographically

**Cultural Patterns and Processes** - learn how geographers assess the spatial dimensions of groups as defined by language, religion, race, ethnicity, and gender

**Political Organization of Space** – political patterns reflect ideas about how Earth's surface should be organized

**Agriculture and Rural Land Use** - the origin, spread and characteristics of agriculture and the impact of agriculture on the quality of life and the environment

**Industrialization and Economic Development** - the geographic elements of industrialization and development

**Cities and Urban Land Use** - study of cities, where cities are located and why, internal structure, and landscapes of cities and what cities are like

Judy Ware earned a B.A. in history from Lake Erie College and an M.A. in American History Pre-Civil War from the University of Colorado – Boulder. Ware began her teaching career in 1981. Judy has taught geography, a series of history courses, and AP\* Economics since 1988. From 1998-2005, Ware was program director of the Missouri Geographic Alliance. In 1997 she was among the early “recruits” to teach AP\* Human Geography. Ware is an adjunct professor at Fontbonne University (St. Louis, MO) and Lindenwood University (St. Charles, MO). Ware is a College Board reader for AP\* Human Geography.

**REGISTER AT:**  
[www.columbusctl.com](http://www.columbusctl.com)



**Download the Registration Tip Sheet from the CTL homepage.**  
**Questions? Contact the CTL at 812.314.8709 or 812.314.8734**

**AP\* Calculus BC – June 21 to 24**  
**Greg Hill**  
**Hinsdale Central Township**  
**High School**  
**Hinsdale, IL**

This course will give AP\* Calculus teachers tools to develop their students' understanding of the concepts of Calculus, its methods, and applications. There is a broad emphasis on a multi-representational approach to Calculus with concepts, results, and problems expressed graphically, numerically, analytically and verbally. Unifying themes include limits, approximation, differential and integral Calculus, and applications and modeling. Particular emphasis will be given to those topics unique to the BC course, including, but not limited to, series, vectors, and the calculus of polar and parametric functions.

Greg Hill has taught mathematics for 29 years at Hinsdale Central High School in the suburbs of Chicago. Hill has been a Calculus instructor since 1986. He has been an AP\* Exam grader for the last ten years and a College Board\* endorsed consultant since 2000. Greg also has an extensive background in classroom technology and served as a Texas Instruments Teachers Teaching with Technology instructor from 1995 to 2004. Hill is the author of *CLEP Calculus* and co-authored *Preparing for the Calculus AP\* Exam with Calculus: Graphical, Numerical Algebraic*. Hill received a B.A. degree at the University of Illinois, Champaign-Urbana and his M.Ed. degree from National Louis University in Evanston, IL.



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**AP\* Psychology – July 12 to 15**  
**Dr. William E. Addison**  
**Eastern Illinois University**  
**Charleston, IL**

**Register  
by June 25**

The main goal of this institute is to provide high school psychology teachers with strategies and techniques they can use to enhance their students' learning experience. Participants will have the opportunity to explore aspects of the AP\* Psychology experience that are essential for student success in the course and on the exam. Discussions will be guided by the interests and expertise of the participants, and include the following topics: the course (e.g., organizing the material, selecting a textbook), the exam (e.g., types of questions, use of rubrics to score free response questions), student preparation (e.g., study tips, strategies for success on the exam), and teaching resources (e.g., professional organizations, online resources). Discussions will be supplemented by demonstrations, activities, and videos designed to emphasize the role of active learning in student success. Participants will be encouraged to share ideas and techniques they have used effectively to promote student learning.

Dr. William E. Addison received a B.A. from Shippensburg State College; an M.A. from Marshall University; and a Ph.D. in Experimental Psychology from Miami University. Dr. Addison is currently a professor at Eastern Illinois University, where he has been the recipient of numerous awards including the 2009 EIU Achievement and Contribution Award for Teaching, Research, and Service. Addison's impressive list of publications and presentations includes *What AP\* Psychology Can Do for You: Not for High School Teachers Only*. Addison is a former President of the Society for the Teaching of Psychology (Division 2 of the American Psychological Association), and is a consulting editor for the journal *Teaching of Psychology*.

**AP\* Chemistry – July 19 to 22**  
**Dr. Joseph Kirsch, Jr.**  
**Butler University**  
**Indianapolis, IN**

This AP\* Chemistry class will focus on the traditional concepts, issues, problem solving, and teaching methods found in an AP\* Chemistry course. The major components of the workshop will be:

- the discussion of the background and theories that support the traditional concepts,
- the development of solutions to a set of typical problems found in AP\* courses and on AP\* exams, and
- the consideration of teaching methods that interrelate chemical principles and enhance student learning.

Clearly, not all concepts and topics can be considered in depth during a one week class, so some topics will be introduced while other topics will be considered in more depth.

Participants are expected to create a neat, complete, and well-organized notebook containing the solutions to the set of typical problems. The notebook can serve as a resource for teachers preparing an AP\*

Chemistry course or for students preparing for an AP\* Chemistry exam. An important part of any class is the collegial sharing of ideas and teaching methods by the participants.

Dr. Joe Kirsch is a full Professor of Chemistry at Butler University in Indianapolis, Indiana. Kirsch received a B.S. from Butler and an M.S. and Ph.D. from the University of Illinois, Champaign-Urbana. Dr. Kirsch has a John Hume Reade Professorship in the Sciences and is the Director of Engineering Dual Degree Programs at Butler University.

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**Register for  
these classes  
by July 2**

**AP\* English Language and  
Composition – July 19 to 22**  
**Dr. Stephen B. Heller**  
**Adlai E. Stevenson High School**  
**Lincolnshire, IL**

Workshop participants will learn how to improve their students' research skills to synthesize, evaluate, cite and utilize source material. Learn strategies that will enable students to write effectively in their college courses across the curriculum and in their professional and personal lives. Experienced and beginning AP\* teachers will become familiar with techniques to help students learn to write and read with increasing complexity and sophistication. Focus areas will include enhancing students' ability to:

- do close reading in an era where visual literacy has replaced verbal literacy;
- develop argumentative essays with an inclusive rhetorical stance;
- prepare for the new synthesis question in the AP\* exam;
- understand and converse about "rhetorical strategies" as they apply to the written document and oral discussion;
- "enter the conversation" in the world of rhetorical discourse to quote Chief Reader David Jolliffe;
- grasp the nature and value of studying "reductive" objective questions as part of the AP\* exam.

Dr. Stephen Heller teaches AP\* Language and Composition, College Preparatory and Accelerated English at Adlai E. Stevenson High School in Lincolnshire, Illinois. Heller worked to implement the S.E.E.D. (Seeking Educational Equity and Diversity) initiative in his school district. Dr. Heller has been an AP\* Reader and Table Leader since 2002. Heller previously worked at the Center for Talent Development at Northwestern University in Evanston. Dr. Heller received his B.A. from Northwestern, M.A. from the University of Illinois-Chicago, and Ph.D. from Loyola University in Chicago.

**AP\* Statistics – July 26 to 29**

**Linda Young**  
**Columbus East High School**  
**Columbus, IN**

This workshop is geared to both the experienced and beginning teacher of AP\* Statistics. The workshop presents a global view of the research process, outlining the scope of research questions and methods. This course will focus on how to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. The course contents are divided into four major themes:

- Exploring data: Describing patterns and departures from patterns
- Sampling and experimentation: Planning and conducting a study
- Anticipating patterns: Exploring random phenomena using probability and simulations
- Statistical inference: Estimating population parameters and testing hypotheses

Linda Young has taught mathematics for more than 38 years. Young earned her Bachelor's and Master's degrees at Indiana University. Young developed the AP\* Statistics curriculum at Columbus East High School in Columbus, Indiana, where she currently teaches. Young is an AP\* Statistics table leader and consultant for College Board\*. She is a member of the NCTM and served as president of the Indiana Council of Teachers of Mathematics.

**AP\* U.S. History – July 26 to 29**

**Kathleen Mullin**  
**College of DuPage**  
**Glen Ellyn, IL**

This workshop is geared to both experienced and new AP\* U.S. History teachers. The course emphasizes methodology, the delivery of content, course design, and lesson implementation. Participants in this class will be able to design new or revise syllabi for AP\* U.S. History courses. Key goals of particular attention in this workshop include: sharing strategies, pedagogy, educational philosophies, and frameworks associated with successful American History courses. AP\* teachers establish familiarity with the wide range of multifaceted resources available to them and gain awareness of systematic avenues for improving student reasoning and writing skills. Objective and essay questions from past exams will be reviewed and testing strategies discussed with special focus on primary sources and the DBQ.

Kathleen Mullin received a B.A. and M.A. from Northeastern Illinois University in Chicago. Mullin currently teaches at the College of DuPage and previously taught at DePaul University in Chicago. Mullin has taught AP\* U.S. History, Bilingual and ESL U.S. History, and World History. Mullin, who travels extensively around the world, received the prestigious Excellence in Education Award – Township High School in 2003 and 1987.

**Register for  
 these classes  
 by July 9**

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Mailing label

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Register online at [www.columbusctl.com](http://www.columbusctl.com)

## The Center for Teaching & Learning Presents 2010 AP\* Summer Institute

Be sure to check for registration deadlines.

<b>AP* Human Geography</b>	<b>June 21-24, 2010</b>
<b>AP* Calculus BC</b>	<b>June 21-24, 2010</b>
<b>AP* Psychology</b>	<b>July 12-15, 2010</b>
<b>AP* Chemistry</b>	<b>July 19-22, 2010</b>
<b>AP* English Language and Composition</b>	<b>July 19-22, 2010</b>
<b>AP* Statistics</b>	<b>July 26-29, 2010</b>
<b>AP* U.S. History</b>	<b>July 26-29, 2010</b>

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