WILKES
UNIVERSITY

CENTER FOR CONTINUED LEARNING
WILKES-BARRE, PA 18766
www.wilkes.edu/continuedlearning

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"Teaching Advanced Placement"

This AP Summer Institute has been endorsed by

CollegeBoard
Advanced Placement
Program

17th Annual

Advanced Placement Summer Institute

AN INSTITUTE SPECIALLY DESIGNED FOR TEACHERS TO EARN THREE GRADUATE CREDITS OR TO MEET ACT 48 REQUIREMENTS

Biology, Chemistry, Computer Science, English, Environmental Science, Mathematics, Physics, Statistics, U.S. History

JULY 20–24, 2009

WILKES
UNIVERSITY
Wilkes-Barre, PA

Allentown, PA	1-1/2 hrs
Baltimore, MD	3 hrs
Binghamton, NY	1-1/2 hrs
Boston, MA	6 hrs
Harrisburg, PA	2 hrs
New Brunswick, NJ	2 hrs
New York City, NY	2-1/2 hrs
Philadelphia, PA	2 hrs
Pittsburgh, PA	5-1/2 hrs
Reading, PA	2 hrs
Syracuse, NY	3 hrs
Washington, DC	4 hrs

Located at the edge of the Pocono Mountains, Wilkes University lies at the heart of the historic northeastern Pennsylvania city of Wilkes-Barre. Stately mansions, tree-lined streets and a broad greenway grace Wilkes' 27-acre, riverside campus. Numerous restaurants, shops, a city park and movie theater are all an easy walk from campus.

While here, enjoy the performing arts, sports or outdoor recreation available in the region:

- Eckley Miners Village
- F.M. Kirby Center for the Performing Arts
- Houdini Tour
- Knoebels Amusement Resort
- Lands at Hillside Farms
- Mohegan Sun at Pocono Downs
- Scranton/Wilkes-Barre Yankees
- State Parks (Frances Slocum, Nescopeck and Ricketts Glen)
- Steamtown National Historic Site
- Wachovia Arena
- Whitewater Challengers

For a complete list of attractions, go to www.tournepa.com.

"Welcome"

Wilkes University, in cooperation with The College Board, will host AP 2009, a specially designed workshop for Advanced Placement teachers. This program is tailored for people who teach, or wish to teach, AP biology, chemistry, computer science, English, environmental science, mathematics, physics, statistics or U.S. history. Equal emphasis is placed upon pedagogical and subject content. The courses are designed to accommodate beginning and experienced AP teachers. Each course will review the latest changes and shifts in emphasis in the AP syllabus.

AP 2009 will begin Sunday, July 19, with registration and a dinner/reception in Wilkes' student union building, the Henry Student Center. Classes will begin Monday morning and run until Friday afternoon, July 24. A detailed schedule will be provided upon registration, and evening participation may be required.

Instructors may assign preliminary reading, which will provide background for class discussions. Classes are designed to create an atmosphere rich with peer interaction and individual attention.

Each course is taught by a Certified College Board AP consultant and enriched by lectures and discussions with Wilkes University faculty members. This pairing provides each class with a dual perspective on the AP syllabus. The AP consultant brings an understanding of the AP program and curriculum, while the Wilkes faculty member offers new perspectives on research and issues related to follow-up courses in the discipline. Each course provides teachers with new ideas and strategies to use in their classrooms.

The courses offered in AP 2009 may be taken for 3 graduate credits or audited. Continuing education credits are provided toward ACT 48. All AP 2009 participants will have access to the latest technologies and facilities in each discipline and will leave the institute with extensive complementary material and numerous books. AP 2009 is designed to be informative, helpful, encouraging and fun. We hope you can join us!

The Teaching of AP-Biology (BIO 498 - Biology)

This comprehensive course covers how to teach both the classroom and laboratory components of AP Biology, and explores the grading of the AP Biology exam. There will be a thorough discussion of what you need to do in the classroom to cover the challenging AP Biology course outline. Participants will carry out most of the parts of the 12 required labs, including a thorough treatment by a Wilkes professor of the molecular biology lab (Lab 6). The procedures, objectives and problems of each lab will be fully discussed. The nature of the AP Biology exam and the importance of the grading process will be presented. There will be a continual sharing where participants will discuss their classroom best practices. The new restructuring of the course and exam will be discussed.

The Teaching of Calculus (AB) (MTH 498A - Mathematics)

The Wilkes University Advanced Placement Institute in Mathematics will provide a detailed analysis of the Advanced Placement course outline Calculus AB. If time permits, participants will also explore topics covered in the BC course outline. Participants will learn how to incorporate graphing calculator technology into their own particular course with special emphasis given to teaching strategies for difficult topics in the AP syllabus. Applicable time lines, textbooks and lesson plans will be discussed in detail. The Advanced Placement examination in mathematics and its grading will also be discussed, including an in-depth analysis of scoring standards and the actual grading of some previous AP examinations.

The Teaching of AP-Chemistry* (CHM 498 - Chemistry)

AP Chemistry participants can expect to leave Wilkes with a completed syllabus, completion of 10 or more AP laboratory experiments, textbook, laboratory and materials' decisions, as well as exposure to software and digital technologies. Mornings will be devoted to AP chemistry content, unique methodologies and pedagogy. Afternoons will focus on the completion of chemistry experiments - ALL performed with the TI83+, CBL, and appropriate sensors. Several non-CBL experiments from Wilkes University's first-year course will also be available.

**If participant numbers are sufficient, the class may be divided into sessions — one session for the experienced AP teacher and a second session for those with less than three to five years of AP-Chemistry experience.*

The Teaching of AP-Computer Science (CS 498 - Computer Science)

The participants will thoroughly explore the topics in both Computer Science A and AB Courses. The course will emphasize methodology and give special attention to the "hard to teach" or "hard to learn" concepts and processes. Program design and methodology, classes and objects, inheritance, recursion, and the implementation of abstract data types in Java will be considered.

Participants will be expected to have a good knowledge of programming and Java syntax sufficient to teach an introductory syntax course. This course will NOT be an introductory Java language course, NOR will it be a course to teach specific Java IDEs. The language treatment during the workshop will focus on classes and objects, inheritance, data types in Java, recursion, and references (pointers to C++ programmers); participants need not come proficient in these topics. Attention will be given to the AP Java Subset.

The participants will learn about available resources, textbooks and instructional strategies. Specific instruction in language syntax, exploration of course topics, and discussion of AP Exam questions will be included.

The Teaching of AP-English (ENG 498 - English)

AP-English Literature and Composition will emphasize the construction and organization of AP curricula, the sharing of materials, teaching strategies, activities and ideas, careful textual study, the use of critical thinking skills, effective techniques for teaching writing about literature, and teacher methodology. The Wilkes University Writing Lab will be available.

The Teaching of AP-Physics (PHY 498 - Physics)

An Advanced Placement Physics workshop is a gathering of physics teachers where ideas are shared and exchanged. It is a gathering where common and, at times, uncommon teaching concerns, practices and problems are expressed, discussed and

"The Wilkes summer institute provides an awarding experience in a quaint, accessible area."

addressed. What is: AP Physics? The Exam? The curriculum? How do I pace my program? What labs do I do? How do I relate my subject material to my labs? How do I prepare my students for the AP Exam?

The 2009 AP Physics workshop at Wilkes University is the place where we can address these questions and share our experiences and thoughts. This AP Physics workshop will include both the AP B and the AP C Physics. The primary focus of the program will be the structure and grading of the AP Exams and how they relate to you and your students. One of our goals is to learn to parallel your exams to the AP Exams by writing multiple-choice questions and free response problems comparable to those students encounter on the AP Physics Exams. Another objective for the week is designing and writing AP Physics-level laboratory experiments suitable for your program and your students.

The Teaching of AP-Environmental Science (GES 498 - Environmental Science)

The goal of this intensive weeklong workshop is to prepare teachers for the AP Environmental Science course and its exam. A major focus will be doing many of the recommended labs. This will include discussing the objectives of a lab, executing them, and analyzing the results. New and experienced teachers will offer their solutions to problems, novel approaches, extensions and alternatives. The lab component of the workshop will include an introduction to GIS and GPS, as well as field trips to sites around Wilkes-Barre.

Interspersed with the lab component will be discussions of the AP Environmental Science classroom. This will include a thorough examination of the APES syllabus found in the Acorn book, discussion of the different ways of teaching an AP-ES course, and lastly, a description of the AP-ES exam and its grading.

The Teaching of Statistics (MTH 498B - Statistics)

This workshop is designed to help teachers create a new AP Statistics course or expand an existing one. Participants will work through the topics that are the core of the AP Statistics curriculum. The course will cover instructional strategies and activities that can be used for teaching the class. A calculator will be used as an integral part of the course work. Specific instructional strategies on ways to prepare students for the AP exam and information on how the exam is graded will be included.

The Teaching of U.S. History (HST 498 - U.S. History)

This workshop is designed to aid teachers in creating for the first time or in continuing to develop existing AP U. S. History courses. Major topics covered include: characteristics of AP U. S. History courses; examination of content expectations; the integration of social history (emphasis on race, class, gender and ethnicity) into the course; methods of instruction; critical writing and reading skills; materials available; and analysis of the AP U.S. History exam. The participants will discuss some of the more important conceptual material; develop a course outline, syllabus, and evaluation materials; and generate and share teaching materials and strategies. Many handouts and an evaluation of books and other support materials will afford participants a "hands-on" approach. Additionally, participants will share materials with classmates through oral and written presentations. Auditors may complete assigned work during the session. At least two optional evening sessions will be available.

"As a new AP teacher, this course was very valuable to me. I now feel more confident and better prepared to provide my students with a quality course that will allow them to be successful on the AP test."

"I found this seminar to be the source of some of the most valuable resources I will use in my classroom."

Schedule

Courses will be offered at the Wilkes University campus during the week of July 20, 2009.

Registration dates to remember

June 22: Final date for regular registration
July 6: Tuition and fees due

Course Schedule

Sunday, July 19: Registration 5:30–7 p.m.; Dinner/reception and orientation
Monday through Thursday, July 20-23: Daily session 8 a.m.–4:30 p.m.
Monday, Tuesday, Wednesday: Evening sessions determined by course instructor
Thursday, July 23, 5 p.m.: Complementary social
Friday, July 24, 11:30 a.m.: End of classes; debriefing 11:30 a.m.– noon.

Registration

To register, complete the registration form and send it, with a $130 non-refundable registration fee, to the Wilkes University Continuing Education Office at the address listed to the right. You may make copies of the form for others and for your records.

Registration and payment for these courses must be made in advance by mail or fax with the attached registration form. Payment for tuition and other expenses may be made by check, purchase order, Visa or MasterCard. To ensure your enrollment, the registration form must be received by June 22, 2009. Because registration for all courses must be limited, students will be accepted on a first-come, first-served basis. ***A late fee of $50 will be charged for registrations postmarked after June 22. Registration information is available online at www.wilkes.edu/continuedlearning.***

Accommodations and Meals

Hotel accommodations have been secured at a reduced conference rate at the Ramada Plaza Hotel, a 10-minute walk from the Wilkes campus, and at the Hilton Garden Inn, a 2.5-mile drive. Your registration fee secures your room; questions about housing should be directed to the Center for Continued Learning at Wilkes University. Parking will be available at the hotel and on campus.

Lunch and breakfast will be served in the food court dining commons of Wilkes' Henry Student Center beginning Monday, July 20, and ending Friday, July 24. Meal plans are available. See the registration form for details. Numerous restaurants are also within walking distance or a short drive from campus.

Special Needs and Cancellations

Wilkes University is committed to making all institute activities accessible to all attendees. For any special arrangements, such as specific dietary requirements or physical access needs, please contact the Center for Continued Learning.

Cancellations received by June 15, 2009, will be refunded (excluding registration fee). No refunds will be given on cancellations after this date. Wilkes University reserves the right to cancel any course because of insufficient enrollment.

Tuition and Fees

Registration		$130	
Tuition	Credit	$1,720	
	Audit	$925	
Housing	Double, roommate assigned	$185/person (Ramada)	$295/person (Hilton)
	Single, upon availability	$345	$565
Meals	Lunch; 5 meals (cash a la carte also available)	$45.40	
	Breakfast; 5 meals (cash a la carte also available)	$28.90	
	Combo Card; 10 meals (non-refundable)	$68.90	

Please call: 1 (800) WILKES-U Ext. 4235, Option #1 or e-mail continuedlearning@wilkes.edu.

Registration Form

Please complete this form and mail it to:
Wilkes University
Center for Continued Learning
84 West South Street
Wilkes-Barre, PA 18766
1 (800) WILKES-U Ext. 4235, Option #1

Or fax to: (570) 408-7846.

First Name_____ Last Name _____

Street Address_____

City _____ State _____ Zip Code_____

Phone _____ Fax_____ E-mail _____

Social Security # _____ Date of Birth _____

School Name_____

Street Address_____

City _____ State _____ Zip Code_____

Phone _____ Fax_____

○ Visa ○ MasterCard ○ Check

Name_____

Street Address_____

City _____ State _____ Zip Code_____

**Credit Card Number_____ Expiration Date _____

Signature _____

Course Number _____ Description _____

○ Credit ○ Audit
Responsible for payment: ○ *School* ○ *Participant*

Room and Board
Hilton or Ramada: _____ ○ Double ○ Single ○ None Needed
○ Smoking ○ Non-Smoking
○ Breakfast only ○ Lunch only ○ Meal combination
Responsible for payment: ○ *School* ○ *Participant*

Amount Enclosed: _____ Balance Due: _____
Responsible for balance: ○ *School* ○ *Participant*