


SECONDARY SCIENCE PDP CATALOG 2009 - 2010

The  starburst indicates a course held during the Summer Conference.

Please refer to the Summer Conference Booklet for more information.



VIRGINIA BEACH CITY PUBLIC SCHOOLS

A H E A D O F T H E C U R V E

2009 - 2010
MANDATORY PDP SESSIONS
SECONDARY SCIENCE

Audience	Session Title	PDP Hours	Dates Offered
Grade 6 Science Teachers and Special Education Teachers who teach Grade 6 Science	New Text and Curriculum Training: Grade 6 Science	3	July 7, 23 & 28, 2009 - 3 sessions August 5 & 20, 2009 - 2 sessions
Advanced Grade 6 Science Teachers and Special Education Teachers who teach Advanced Grade 6 Science	New Text and Curriculum Training: Advanced Grade 6 Science	3	July 7, 23 & 28, 2009 - 3 sessions August 5 & 20, 2009 - 2 sessions
Grade 7 Science Teachers and Special Education Teachers who teach Grade 7 Science	New Text and Curriculum Training: Grade 7 Science	3	July 9, 21 & 30, 2009 - 3 sessions August 4 & 19, 2009 - 2 sessions
Advanced Grade 7 Science Teachers and Special Education Teachers who teach Advanced Grade 7 Science	New Text and Curriculum Training: Advanced Grade 7 Science	3	July 9, 21 & 30, 2009 - 3 sessions August 4 & 19, 2009 - 2 sessions
Grade 8 Science Teachers and Special Education Teachers who teach Grade 8 Science	New Text and Curriculum Training: Grade 8 Science	3	July 8, 14 & 29, 2009 - 2 sessions August 6 & 18, 2009 - 2 sessions
Astronomy Teachers and Special Education Teachers who teach Astronomy	New Text and Curriculum Training: Astronomy	3	July 8, 2009 - 1 session August 6, 2009 - 1 session
Biology Teachers and Special Education Teachers who teach Biology	New Text and Curriculum Training: Biology	3	July 8 & 20, 2009 - 2 sessions August 3 & 18, 2009 - 2 sessions
Advanced Placement Biology Teachers	New Text and Curriculum Training: Advanced Placement Biology	3	July 9, 2009 - 1 session August 17, 2009 - 1 session
Chemistry Teachers and Special Education Teachers who teach Chemistry	New Text and Curriculum Training: Chemistry	3	July 9, 2009 - 1 session August 17, 2009 - 1 session
Advanced Placement Chemistry Teachers	New Text and Curriculum Training: Advanced Placement Chemistry	3	July 9, 2009 - 1 session August 17, 2009 - 1 session
Earth Science Teachers and Special Education Teachers who teach Earth Science	New Text and Curriculum Training: Earth Science	3	July 8 & 14, 2009 - 2 sessions August 6 & 18, 2009 - 2 sessions
Advanced Placement Environmental Science Teachers	New Text and Curriculum Training: Advanced Placement Environmental Science	3	July 7, 2009 - 1 session August 3, 2009 - 1 session
Oceanography Teachers and Special Education Teachers who teach Oceanography	New Text and Curriculum Training: Oceanography	3	July 8 & 14, 2009 - 2 sessions August 6 & 18, 2009 - 2 sessions
Physics Teachers and Special Education Teachers who teach Physics	New Text and Curriculum Training: Physics	3	July 21, 2009 - 1 session August 3, 2009 - 1 session
Advanced Placement Physics B Teachers	New Text and Curriculum Training: Advanced Placement Physics B	3	July 21, 2009 - 1 session August 3, 2009 - 1 session
Advanced Placement Physics C Teachers	New Text and Curriculum Training: Advanced Placement Physics C	3	July 21, 2009 - 1 session August 3, 2009 - 1 session

SECONDARY

Science

Understanding Watersheds PDP

This course will focus on the basics of watersheds and related environmental issues, using the Lynnhaven River watershed as the prime example. On the second day of the course, teachers will conduct a Lynnhaven River investigation and use water chemistry samplings to link land use with water quality. Teachers will also be introduced to various curriculum activities to bring this subject matter to life for their students.

Participants will leave this course with an appreciation for the following: the Chesapeake Bay and Lynnhaven River watersheds and watershed dynamics; linkages between land use, run off, and estuarine water quality; specific water quality issues in the Lynnhaven River and watershed; water quality testing and classroom applications; conducting a watershed and river investigation, and strategies for improving water quality in the Lynnhaven River. **Dates subject to change.**

Eligible Audience: Middle School Life Science Teachers, High School Biology and Oceanography Teachers & Special Education Teachers Who Teach These Science Subjects

P-SCIE-0551-09-001

June 30, 2009 - July 2, 2009

8:00 AM - 4:30 PM

Tuesday, Thursday

First Colonial HS

Instructor: Kuhns, Helen

15 License Renewal Points/15 PDP Hours

Building a Rain Garden - Lynnhaven River Project PDP

This course will introduce teachers to basic watershed concepts and Lynnhaven River watershed issues with an emphasis on surface water run-off problems. Teachers will explore the benefits of a rain garden and will learn the steps to construct one. The morning will be devoted to classroom instruction on basic watershed concepts and an understanding of the problems in the Lynnhaven River attributed to surface water run-off; the benefits of a rain garden for regulating surface water flow and water quality in our streams and rivers; selecting a site for a rain garden, the steps in constructing a rain garden, and plant selection. The afternoon will be spent constructing a rain garden. This is a project that any teacher could consider for his/her school grounds.

Eligible Audience: Middle School Life Science Teachers, High School Biology Teachers, Earth Science Teachers, and Oceanography Teachers & Special Education Teachers Who Teach These Science Subjects

P-SCIE-0588-09-001

June 17, 2009 - April 30, 2010

8:00 AM - 3:00 PM

Days Vary

TBD

Instructor: Kuhns, Helen

7 License Renewal Points/7 PDP Hours

Alternative Assessments in Secondary Science PDP

Learn alternative ways to assess students in science content knowledge. Join colleagues in an overview of alternative assessment choices such as authentic tasks, performance assessments, and collaborative laboratory group work. Participants will receive information on ways to create such alternative assessments for students in their classrooms.

Eligible Audience: Secondary Science Teachers, Special Education Teachers of Secondary Science & All Special Education Secondary Science Teachers

P-SCIE-0598-09-001

October 08, 2009
4:15 PM - 6:15 PM
Thursday
Corporate Landing MS
Instructor: Kelly, Sherry M
2 License Renewal Points/2 PDP Hours

P-SCIE-0598-09-002

March 11, 2010
4:30 PM - 6:30 PM
Thursday
Corporate Landing MS
Instructor: Kelly, Sherry M
2 License Renewal Points/2 PDP Hours

Differentiate by Learning Styles PDP

If science classrooms can offer and support different modes of learning, it is more likely that students will learn more effectively and efficiently. The purpose of this workshop is to provide teachers with background information about learning styles, intelligence preferences and show them how to use learning style choices to differentiate instruction.

Eligible Audience: Secondary Science Teachers & All Special Education Secondary Science Teachers

P-SCIE-0617-09-001

July 15, 2009
10:00 AM - 12:00 P
Wednesday
First Colonial HS
Instructor: Grimes, Joan T
2 License Renewal Points/2 PDP Hours

P-SCIE-0617-09-002

September 16, 2009
3:00 PM - 5:00 PM
Wednesday
First Colonial HS
Instructor: Grimes, Joan T
2 License Renewal Points/2 PDP Hours

P-SCIE-0617-09-003

January 14, 2010
3:00 PM - 5:00 PM
Thursday
First Colonial HS
Instructor: Grimes, Joan T
2 License Renewal Points/2 PDP Hours

Differentiate by Readiness PDP

Students learn only when they are working at a level of difficulty in the classroom that is challenging, yet attainable. Readiness of student learners involves a number of factors such as prior knowledge and life experiences, attitudes about learning, and habits of mind. The purpose of this workshop is to provide teachers with background information about addressing students' readiness and show them how to differentiate instruction based on readiness.

Eligible Audience: Secondary Science Teachers, Special Education Teachers of Secondary Science & All Special Education Secondary Science Teachers



P-SCIE-0619-09-001

June 22, 2009

1:00 PM - 4:00 PM

Monday

Landstown HS, Room 402

Instructor: Kelly, Sherry M

3 License Renewal Points/3 PDP Hours

P-SCIE-0619-09-002

July 23, 2009

4:30 PM - 7:30 PM

Thursday

Corporate Landing MS

Instructor: Kelly, Sherry M

3 License Renewal Points/3 PDP Hours

P-SCIE-0619-09-003

January 07, 2010

4:30 PM - 7:30 PM

Thursday

Corporate Landing MS

Instructor: Kelly, Sherry M

3 License Renewal Points/3 PDP Hours

Games, Games and More Games! PDP

Do you need new ways to introduce concepts, gather information, or review science content with your students? If so, come to this workshop to see how games can be fun, useful tools that lead to improved student learning. You will leave with many examples and templates for immediate modification into your curriculum and teaching style.

Please bring some information or instructional materials you would like to put into a game. Are you game?

Eligible Audience: Secondary Science Teachers & All Special Education Secondary Science Teachers

P-SCIE-0628-09-001

July 15, 2009

1:00 PM - 4:00 PM

Wednesday

Princess Anne HS

Instructor: Durbin, Jamie

3 License Renewal Points/3 PDP Hours

Sea Turtle Science for Middle School Teachers PDP

This session focuses on the many types of turtles found in Virginia including freshwater turtles, land turtles, and sea turtles. The workshop will include classroom-based activities, a presentation about sea turtle strandings from a member of the stranding team, and a behind-the-scenes tour of the sea turtle exhibit. Bring a packed lunch.

Class meets at Classroom of the Bay & Ocean Pavilion at the Marine Science Museum.

Eligible Audience: Middle School Life Science Teachers

P-SCIE-0652-09-001

June 26, 2009

10:00 AM - 3:00 PM

Friday

Virginia Aquarium, Bay & Ocean Pav

Instructor: Virginia Aquarium Staff

5 License Renewal Points/5 PDP Hours

Sea Turtle Science for High School Teachers PDP

This session focuses on the many types of turtles found in Virginia including freshwater turtles, land turtles, and sea turtles. The workshop will include classroom-based activities, a presentation about sea turtle strandings from a member of the stranding team, and a behind-the-scenes tour of the sea turtle exhibit. Bring a packed lunch.

Class meets at Classroom of the Bay & Ocean Pavilion at the Marine Science Museum.

Eligible Audience: High School AP Environmental Science, Biology, and Oceanography Teachers



P-SCIE-0653-09-001

June 22, 2009
10:00 AM - 3:00 PM
Monday
Virginia Aquarium, Bay & Ocean Pav
Instructor: Virginia Aquarium Staff
5 License Renewal Points/5 PDP Hours

Marine Mammal Science for Secondary Science Teachers PDP

This session focuses on marine mammals found along the coast of Virginia. Participants will attend a dolphin watch boat trip and then return to the aquarium to learn about classroom activities for students to perform about marine mammals. Behind-the-scenes tour of the seal exhibit and a tour of the stranding center will be offered. Bring a packed lunch.

Class meets at Classroom of the Bay & Ocean Pavilion at the Marine Science Museum.

Eligible Audience: Middle School Life Science and High School AP Environmental Science, Biology, and Oceanography Teachers

P-SCIE-0655-09-001

June 30, 2009
9:30 AM - 3:30 PM
Tuesday
Virginia Aquarium, Bay & Ocean Pav
Instructor: Virginia Aquarium Staff
6 License Renewal Points/6 PDP Hours

Windows Movie Maker for the Science Classroom PDP

Create your own science video projects and presentations using the Windows Movie Maker. This program will add a dynamic visual component to your science instruction. Learn techniques for merging video, photo, and audio into dynamic lessons for the classroom.

Eligible Audience: Secondary Science Teachers & All Special Education Secondary Science Teachers

P-SCIE-0766-09-001

August 13, 2009
4:30 PM - 7:30 PM
Thursday
Princess Anne HS
Instructor: Durbin, Jamie
3 License Renewal Points/3 PDP Hours

Introduction to Labpros PDP

This class is for teachers that want to learn how to use the labpros or for those that are looking to use more technology in the classroom. In this class, we will learn how to set up and perform two labs using the labpros with laptops and danas. The class will cover setting up labpros, how to use the loggerpro and datapro software, and ways to avoid common pitfalls with labpros. The class will also cover applications in all areas of science.

Eligible Audience: All Secondary Science Teachers and Special Education Teachers of Secondary Science

P-SCIE-0775-09-001

July 16, 2009
9:00 AM - 12:00 PM
Thursday
Tallwood HS
Instructor: Tomik, Jason A
3 License Renewal Points/3 PDP Hours

P-SCIE-0775-09-002

December 03, 2009
4:00 PM - 7:00 PM
Thursday
Tallwood HS
Instructor: Tomik, Jason A
3 License Renewal Points/3 PDP Hours

Compass, GPS and Land Navigation in the Geosciences PDP

This one credit college course offered through Tidewater Community College provides participants with principles of the map, compass, and GPS. The course is built around a study of topics relating specifically to GPS and the Virginia Standards of Learning. It is intended that teachers will use content material in this course to supplement their own lessons in the classroom. Highlights of the course include: Principles of magnetic fields, natural and anthropomorphic, and their influence on the compass. GPS, used more and more for location, and its capabilities and limitations. Principles of using compass and the GPS for navigation on various terrains such as urban, suburban and rural. Participants will be involved in using maps, compass and GPS to move from point A to point B for geologic field work and additional activities like geo-caching. The course of study ends with a practical field exercise and a written quiz as an evaluative tool for content knowledge. Approximately 60% of the class will be conducted outside. No books are required.

Participants in this course must register with TCC prior to the first class. Participants will be contacted with TCC registration information prior to the beginning of the course.

Course meets:

June 22, 2009 9:00 AM - 4:00 PM
June 23, 2009 8:00 AM - 4:00 PM

Location: Virginia Beach Campus of Tidewater Community College
Science Building, Physical Geology Lab

Note: Tuition for this course is being paid by VBCPS. Books, materials and any college or university parking fees are the responsibility of the participant. Failure to enroll or successfully complete the course or activity through termination of employment, failure to attend or pass the course requirements with a grade of "C" or higher will result in the obligation of the Employee to reimburse the School Board entire amount of the tuition and related costs.

Eligible Audience: Earth Science, Oceanography, Astronomy, Physics, AP Environmental Teachers and Special Education Teachers Who Teach These Subjects



C-SCIE-0786-09-001

College Course:

Tidewater Community College

June 22 - 23, 2009

Times Vary

Monday, Tuesday

Tidewater Community College

Instructor: Michael Lyle

1 Semester Hour/30 License Renewal Points/15 PDP Hours

Project Learning Tree PDP

This interactive workshop is designed to help students learn how to think, not what to think about complex environmental through hands-on interdisciplinary activities. Each teacher that completes the class will receive 2 project modules entitled "The Changing Forest: Forest Ecology" and "Exploring Environmental Issues: Places We Live". These modules include teacher-friendly activities to help teach the sciences in addition to linking other curriculum areas. Class meets at Classroom of the Bay & Ocean Pavilion at the Marine Science Museum. Bring a packed lunch.

Eligible Audience: Life Science, Advanced Life Science, Biology, AP Environmental Teachers

P-SCIE-0789-09-002

June 17, 2009 - April 30, 2010

9:00 AM - 3:00 PM

Days Vary

Location TBD

Instructor: Mannarino, Anne

6 License Renewal Points/6 PDP Hours

Exploring Our Coastal Environment - Chesapeake Bay Watershed PDP

Explore bay and swamp habitats at First Landing State Park. Learn how to interpret water quality, beach profiling, current study, beach zonation, Cypress Swamp activities, followed by marsh and inland bay activities at 64th street. We will be seining for fish and invertebrates so be prepared to get wet.

The class will meet at the Bay Lab facility at First Landing State Park. Please bring a packed lunch. Participants should be prepared to get wet and sandy so it's recommended that you wear a bathing suit and water shoes and bring a change of clothes. Water and sunscreen are recommended.

Eligible Audience: Grade 6 Science, Life Science, Advanced Life Science, Earth Science, Oceanography, Biology, and AP Environmental Science Teachers



P-SCIE-0793-09-001

June 24, 2009

10:00 AM - 2:00 PM

Wednesday

First Landing St. Park-Bay Lab

Instructor: Virginia Aquarium Staff

4 License Renewal Points/4 PDP Hours

Project WILD PDP

This interactive workshop takes an interdisciplinary approach to conservation and environmental education with an emphasis on wildlife. Each teacher completing the Project WILD workshop will receive a 500+ page activity guide with teacher-friendly activities addressing Ecological Knowledge, Social and Political Knowledge, Sustaining Fish and Wildlife Resources. Bring a packed lunch.

Class meets at Classroom of the Bay & Ocean Pavilion at the Virginia Aquarium.

Eligible Audience: Grade 6 Science, Life Science, Advanced Life Science, Earth Science, Oceanography, Biology, and AP Environmental Science Teachers

P-SCIE-0849-09-001

July 29, 2009

9:00 AM - 3:00 PM

Wednesday

Virginia Aquarium, Bay & Ocean Pav

Instructor: Virginia Aquarium Staff

6 License Renewal Points/6 PDP Hours

Virginia Over Time PDP

Take a journey to far away places that bring you a little closer to home. In this workshop we will look at how geologic processes such as plate tectonics have affected climate, plants and animals in Virginia from past to present. Bring a packed lunch.

Class meets at Classroom of the Bay & Ocean Pavilion at the Marine Science Museum.

Eligible Audience: Grade 6 Science, Life Science, Advanced Life Science, Earth Science, Oceanography, Biology, and AP Environmental Science Teachers

P-SCIE-0850-09-001

June 25, 2009

9:00 AM - 1:00 PM

Thursday

Virginia Aquarium, Bay & Ocean Pav

Instructor: Virginia Aquarium Staff

4 License Renewal Points/4 PDP Hours

**21st Century Advanced Life Science
Professional Development - Community - I
PDP**

This set of workshop sessions will focus on sharing a variety of effective instructional strategies in the Advanced Life Science classroom. The activities will be designed to promote comprehension and involve students in problem solving activities that connect to important concepts in the Advanced Life Science curriculum.

Eligible Audience: Grade 7 Advanced Science Teachers

P-SCIE-0851-09-001

September 16, 2009

4:30 PM - 6:30 PM

Wednesday

Salem MS

Instructor: Neydon, Elizabeth A

2 License Renewal Points/2 PDP Hours

**21st Century Advanced Life Science
Professional Development - Community - II
PDP**

This set of workshop sessions will focus on sharing a variety of effective instructional strategies in the Advanced Life Science classroom. The activities will be designed to promote comprehension and involve students in problem solving activities that connect to important concepts in the Advanced Life Science curriculum.

Eligible Audience: Grade 7 Advanced Science Teachers

P-SCIE-0852-09-001

November 12, 2009

4:30 PM - 6:30 PM

Thursday

Salem MS

Instructor: Neydon, Elizabeth A

2 License Renewal Points/2 PDP Hours

**21st Century Advanced Life Science
Professional Development - Community -
III PDP**

This set of workshop sessions will focus on sharing a variety of effective instructional strategies in the Advanced Life Science classroom. The activities will be designed to promote comprehension and involve students in problem solving activities that connect to important concepts in the Advanced Life Science curriculum.

Eligible Audience: Grade 7 Advanced Science Teachers

P-SCIE-0853-09-001

February 10, 2010

4:30 PM - 6:30 PM

Wednesday

Salem MS

Instructor: Neydon, Elizabeth A

2 License Renewal Points/2 PDP Hours

**21st Century Advanced Life Science
Professional Development - Community - IV
PDP**

This set of workshop sessions will focus on sharing a variety of effective instructional strategies in the Advanced Life Science classroom. The activities will be designed to promote comprehension and involve students in problem solving activities that connect to important concepts in the Advanced Life Science curriculum.

Eligible Audience: Grade 7 Advanced Science Teachers

P-SCIE-0854-09-001

April 21, 2010

4:30 PM - 6:30 PM

Wednesday

Salem MS

Instructor: Neydon, Elizabeth A

2 License Renewal Points/2 PDP Hours

21st Century Advanced Placement Biology Professional Development - Community - I PDP

This set of workshop sessions will focus on sharing a variety of effective instructional strategies in the AP Biology classroom. The activities will be designed to promote comprehension and aid problem-solving for students with concepts presented in the AP Biology curriculum.

Eligible Audience: Advanced Placement Biology Teachers

P-SCIE-0855-09-001

September 16, 2009

3:00 PM - 5:00 PM

Wednesday

Cox HS

Instructor: Martino, Frances J

2 License Renewal Points/2 PDP Hours

21st Century Advanced Placement Biology Professional Development - Community - II PDP

This set of workshop sessions will focus on sharing a variety of effective instructional strategies in the AP Biology classroom. The activities will be designed to promote comprehension and aid problem-solving for students with concepts presented in the AP Biology curriculum.

Eligible Audience: Advanced Placement Biology Teachers

P-SCIE-0856-09-001

November 18, 2009

3:00 PM - 5:00 PM

Wednesday

Cox HS

Instructor: Baja-ricketts, Melanie R

2 License Renewal Points/2 PDP Hours

21st Century Advanced Placement Biology Professional Development - Community - III PDP

This set of workshop sessions will focus on sharing a variety of effective instructional strategies in the AP Biology classroom. The activities will be designed to promote comprehension and aid problem-solving for students with concepts presented in the AP Biology curriculum.

Eligible Audience: Advanced Placement Biology Teachers

P-SCIE-0857-09-001

February 10, 2010

3:00 PM - 5:00 PM

Wednesday

Cox HS

Instructor: Martino, Frances J

2 License Renewal Points/2 PDP Hours

21st Century Advanced Placement Biology Professional Development - Community - IV PDP

This set of workshop sessions will focus on sharing a variety of effective instructional strategies in the AP Biology classroom. The activities will be designed to promote comprehension and aid problem-solving for students with concepts presented in the AP Biology curriculum.

Eligible Audience: Advanced Placement Biology Teachers

P-SCIE-0858-09-001

March 10, 2010

3:00 PM - 5:00 PM

Wednesday

Cox HS

Instructor: Baja-ricketts, Melanie R

2 License Renewal Points/2 PDP Hours

**21st Century Advanced Placement
Chemistry Professional Development -
Community - I PDP**

This set of workshop sessions will focus on sharing a variety of effective instructional strategies in the AP Chemistry classroom. The activities will be designed to promote comprehension and aid problem-solving for students with concepts presented in the AP Chemistry curriculum.

Eligible Audience: Advanced Placement Chemistry Teachers

P-SCIE-0859-09-001

July 14, 2009

9:00 AM - 12:00 PM

Tuesday

Tallwood HS

Instructor: Matney, Kathryn C

3 License Renewal Points/3 PDP Hours

**21st Century Advanced Placement
Chemistry Professional Development -
Community - II PDP**

This set of workshop sessions will focus on sharing a variety of effective instructional strategies in the AP Chemistry classroom. The activities will be designed to promote comprehension and aid problem-solving for students with concepts presented in the AP Chemistry curriculum.

Eligible Audience: Advanced Placement Chemistry Teachers

P-SCIE-0860-09-001

July 21, 2009

1:00 PM - 4:00 PM

Tuesday

Tallwood HS

Instructor: Matney, Kathryn C

3 License Renewal Points/3 PDP Hours

**21st Century Advanced Placement
Chemistry Professional Development -
Community - III PDP**

This set of workshop sessions will focus on sharing a variety of effective instructional strategies in the AP Chemistry classroom. The activities will be designed to promote comprehension and aid problem-solving for students with concepts presented in the AP Chemistry curriculum.

Eligible Audience: Advanced Placement Chemistry Teachers

P-SCIE-0861-09-001

August 25, 2009

9:00 AM - 12:00 PM

Tuesday

Tallwood HS

Instructor: Matney, Kathryn C

3 License Renewal Points/3 PDP Hours

**21st Century Astronomy Professional
Development - Community - I PDP**

This set of sessions will focus on using a variety of effective instructional strategies in the Astronomy classroom. Teachers will share activities that will be designed to promote comprehension, critical thinking, and problem-solving for students with concepts presented in the Astronomy curriculum for the 21st century learners.

Eligible Audience: Astronomy Teachers and Earth Science Teachers

P-SCIE-0863-09-001

September 16, 2009

3:00 PM - 5:00 PM

Wednesday

First Colonial HS

Instructor: Polk, Diane K

2 License Renewal Points/2 PDP Hours

21st Century Astronomy Professional Development - Community - II PDP

This set of sessions will focus on using a variety of effective instructional strategies in the Astronomy classroom. Teachers will share activities that will be designed to promote comprehension, critical thinking, and problem-solving for students with concepts presented in the Astronomy curriculum for the 21st century learners.

Eligible Audience: Astronomy Teachers and Earth Science Teachers

P-SCIE-0864-09-001

November 18, 2009

3:00 PM - 5:00 PM

Wednesday

First Colonial HS

Instructor: Polk, Diane K

2 License Renewal Points/2 PDP Hours

21st Century Astronomy Professional Development - Community - III PDP

This set of workshop sessions will focus on using a variety of effective instructional strategies in the Astronomy classroom. The activities will be designed to promote comprehension and aid problem-solving for students with concepts presented in the Astronomy curriculum.

Eligible Audience: Astronomy Teachers and Earth Science Teachers

P-SCIE-0865-09-001

February 10, 2010

3:00 PM - 5:00 PM

Wednesday

First Colonial HS

Instructor: Polk, Diane K

2 License Renewal Points/2 PDP Hours

21st Century Astronomy Professional Development - Community - IV PDP

This set of workshop sessions will focus on using a variety of effective instructional strategies in the Astronomy classroom. The activities will be designed to promote comprehension and aid problem-solving for students with concepts presented in the Astronomy curriculum.

Eligible Audience: Astronomy Teachers and Earth Science Teachers

P-SCIE-0866-09-001

March 10, 2010

3:00 PM - 5:00 PM

Wednesday

First Colonial HS

Instructor: Polk, Diane K

2 License Renewal Points/2 PDP Hours

21st Century Biology Professional Development - Community - I PDP

This set of workshop sessions will focus on sharing a variety of effective instructional strategies in the biology classroom. The activities will be designed to promote comprehension and aid problem-solving for students with concepts presented in the biology curriculum.

Eligible Audience: Biology Teachers, Special Education Teachers of Biology

P-SCIE-0867-09-001

September 16, 2009

3:00 PM - 5:00 PM

Wednesday

Princess Anne HS

Instructor: Walck, Camilla C

2 License Renewal Points/2 PDP Hours

21st Century Biology Professional Development - Community - II PDP

This set of workshop sessions will focus on sharing a variety of effective instructional strategies in the biology classroom. The activities will be designed to promote comprehension and aid problem-solving for students with concepts presented in the biology curriculum.

Eligible Audience: Biology Teachers, Special Education Teachers of Biology

P-SCIE-0868-09-001

November 12, 2009

3:00 PM - 5:00 PM

Thursday

Princess Anne HS

Instructor: Walck, Camilla C

2 License Renewal Points/2 PDP Hours

21st Century Biology Professional Development - Community - III PDP

This set of workshop sessions will focus on sharing a variety of effective instructional strategies in the biology classroom. The activities will be designed to promote comprehension and aid problem-solving for students with concepts presented in the biology curriculum.

Eligible Audience: Biology Teachers, Special Education Teachers of Biology

P-SCIE-0869-09-001

February 11, 2010

3:00 PM - 5:00 PM

Thursday

Princess Anne HS

Instructor: Walck, Camilla C

2 License Renewal Points/2 PDP Hours

21st Century Biology Professional Development - Community - IV PDP

This set of workshop sessions will focus on sharing a variety of effective instructional strategies in the biology classroom. The activities will be designed to promote comprehension and aid problem-solving for students with concepts presented in the biology curriculum.

Eligible Audience: Biology Teachers, Special Education Teachers of Biology

P-SCIE-0870-09-001

April 22, 2010

3:00 PM - 5:00 PM

Thursday

Princess Anne HS

Instructor: Walck, Camilla C

2 License Renewal Points/2 PDP Hours

21st Century Chemistry Professional Development - Community - I PDP

This set of workshop sessions will focus on sharing a variety of effective instructional strategies in the chemistry classroom. The activities will be designed to promote comprehension and aid problem-solving for students with concepts presented in the chemistry curriculum.

Eligible Audience: Chemistry Teachers

P-SCIE-0871-09-001

September 17, 2009

3:00 PM - 5:00 PM

Thursday

Princess Anne HS

Instructor: Holleman, Lois E

2 License Renewal Points/2 PDP Hours

21st Century Chemistry Professional Development - Community - II PDP

This set of workshop sessions will focus on sharing a variety of effective instructional strategies in the chemistry classroom. The activities will be designed to promote comprehension and aid problem-solving for students with concepts presented in the chemistry curriculum.

Eligible Audience: Chemistry Teachers

P-SCIE-0872-09-001

November 19, 2009

3:00 PM - 5:00 PM

Thursday

Princess Anne HS

Instructor: Holleman, Lois E

2 License Renewal Points/2 PDP Hours

21st Century Chemistry Professional Development - Community - III PDP

This set of workshop sessions will focus on sharing a variety of effective instructional strategies in the chemistry classroom. The activities will be designed to promote comprehension and aid problem-solving for students with concepts presented in the chemistry curriculum.

Eligible Audience: Chemistry Teachers

P-SCIE-0873-09-001

February 11, 2010

3:00 PM - 5:00 PM

Thursday

Princess Anne HS

Instructor: Holleman, Lois E

2 License Renewal Points/2 PDP Hours

21st Century Chemistry Professional Development - Community - IV PDP

This set of workshop sessions will focus on sharing a variety of effective instructional strategies in the chemistry classroom. The activities will be designed to promote comprehension and aid problem-solving for students with concepts presented in the chemistry curriculum.

Eligible Audience: Chemistry Teachers

P-SCIE-0874-09-001

March 11, 2010

3:00 PM - 5:00 PM

Thursday

Princess Anne HS

Instructor: Holleman, Lois E

2 License Renewal Points/2 PDP Hours

21st Century e-Teacher Through a Science Lens: Introduction to Lesson Planning, Research and Collaborative Tools PDP

This online course helps teachers build confidence and experience using technology that will then be implemented into lesson design. These technology tools are appropriate for all grades. An emphasis will be placed on utilizing 21st century resources that help students think and act like scientists.

Participants will also gain an understanding of the behavior and learning styles of millennial students as they plan and design appropriate lessons for these learners.

The first meeting will be a 2-hour face-to-face meeting where participants will register for the course and become comfortable with the course management tools. Following this first meeting, the course will run asynchronously allowing participants to complete assignments at a time and place that is convenient for them. The course consists of 5 modules. Participants should be comfortable browsing the Internet, using email, downloading and saving information and images, using presentation tools and using a word processor.

Face-to-face meeting: Wednesday, February 3, 2010

Completion date for coursework: Wednesday, April 7, 2010

Eligible Audience: All Middle and High School Science Teachers and Special Education Teachers Who Teach Science

P-SCIE-0875-09-001

February 3 - April 7, 2010

Times Vary

Wed.
Salem MS

Instructor: Bowers, Sharon W

15 License Renewal Points/15 PDP Hours

Cancelled

21st Century Earth Science Professional Development - Community - I PDP

This set of workshop sessions will focus on sharing a variety of effective instructional strategies in the earth science classroom. The activities will be designed to promote comprehension and aid problem-solving for students with concepts presented in the earth science curriculum.

Eligible Audience: Earth Science Teachers, Special Education Teachers of Earth Science

P-SCIE-0876-09-001

September 15, 2009

3:00 PM - 5:00 PM

Tuesday

Bayside HS

Instructor: Scofield, Diana L

2 License Renewal Points/2 PDP Hours

21st Century Earth Science Professional Development - Community - II PDP

This set of workshop sessions will focus on sharing a variety of effective instructional strategies in the earth science classroom. The activities will be designed to promote comprehension and aid problem-solving for students with concepts presented in the earth science curriculum.

Eligible Audience: Earth Science Teachers, Special Education Teachers of Earth Science

P-SCIE-0877-09-001

November 17, 2009

3:00 PM - 5:00 PM

Tuesday

Bayside HS

Instructor: Scofield, Diana L

2 License Renewal Points/2 PDP Hours

21st Century Earth Science Professional Development - Community - III PDP

This set of workshop sessions will focus on sharing a variety of effective instructional strategies in the earth science classroom. The activities will be designed to promote comprehension and aid problem-solving for students with concepts presented in the earth science curriculum.

Eligible Audience: Earth Science Teachers, Special Education Teachers of Earth Science

P-SCIE-0878-09-001

February 09, 2010

3:00 PM - 5:00 PM

Tuesday

Bayside HS

Instructor: Scofield, Diana L

2 License Renewal Points/2 PDP Hours

21st Century Earth Science Professional Development - Community - IV PDP

This set of workshop sessions will focus on sharing a variety of effective instructional strategies in the earth science classroom. The activities will be designed to promote comprehension and aid problem-solving for students with concepts presented in the earth science curriculum.

Eligible Audience: Earth Science Teachers, Special Education Teachers of Earth Science

P-SCIE-0879-09-001

April 27, 2010

3:00 PM - 5:00 PM

Tuesday

Bayside HS

Instructor: Scofield, Diana L

2 License Renewal Points/2 PDP Hours

21st Century Grade 6 Advanced Science Professional Development - Community - I PDP

This set of workshop sessions will focus on sharing a variety of effective instructional strategies in the grade 6 Advanced Science classroom. The activities will be designed to promote comprehension and involve students in problem-solving activities that connect to important concepts in the grade 6 Advanced Science curriculum.

Eligible Audience: Grade 6 Advanced Science Teachers

P-SCIE-0880-09-001

September 16, 2009

4:30 PM - 6:30 PM

Wednesday

TBD

Instructor: Cristello, Mary A

2 License Renewal Points/2 PDP Hours

21st Century Grade 6 Advanced Science Professional Development - Community - II PDP

This set of workshop sessions will focus on sharing a variety of effective instructional strategies in the grade 6 Advanced Science classroom. The activities will be designed to promote comprehension and involve students in problem-solving activities that connect to important concepts in the grade 6 Advanced Science curriculum.

Eligible Audience: Grade 6 Advanced Science Teachers

P-SCIE-0881-09-001

November 12, 2009

4:30 PM - 6:30 PM

Thursday

TBD

Instructor: Cristello, Mary A

2 License Renewal Points/2 PDP Hours

21st Century Grade 6 Advanced Science Professional Development - Community - III PDP

This set of workshop sessions will focus on sharing a variety of effective instructional strategies in the grade 6 Advanced Science classroom. The activities will be designed to promote comprehension and involve students in problem-solving activities that connect to important concepts in the grade 6 Advanced Science curriculum.

Eligible Audience: Grade 6 Advanced Science Teachers

P-SCIE-0882-09-001

February 10, 2010

4:30 PM - 6:30 PM

Wednesday

TBD

Instructor: Cristello, Mary A

2 License Renewal Points/2 PDP Hours

21st Century Grade 6 Advanced Science Professional Development - Community - IV PDP

This set of workshop sessions will focus on sharing a variety of effective instructional strategies in the grade 6 Advanced Science classroom. The activities will be designed to promote comprehension and involve students in problem-solving activities that connect to important concepts in the grade 6 Advanced Science curriculum.

Eligible Audience: Grade 6 Advanced Science Teachers

P-SCIE-0883-09-001

April 21, 2010

4:30 PM - 6:30 PM

Wednesday

TBD

Instructor: Cristello, Mary A

2 License Renewal Points/2 PDP Hours

21st Century Grade 6 Science Professional Development - Community - I PDP

This set of workshop sessions will focus on sharing a variety of effective instructional strategies in the grade 6 Science classroom. The activities will be designed to promote comprehension and involve students in problem-solving activities that connect to important concepts in the grade 6 Science curriculum.

Eligible Audience: Grade 6 Science Teachers and Special Education Teachers

P-SCIE-0884-09-001

September 16, 2009

4:30 PM - 6:30 PM

Wednesday

Corporate Landing MS

Instructor: Overstreet, Verna T

2 License Renewal Points/2 PDP Hours

21st Century Grade 6 Science Professional Development - Community - II PDP

This set of workshop sessions will focus on sharing a variety of effective instructional strategies in the grade 6 Science classroom. The activities will be designed to promote comprehension and involve students in problem-solving activities that connect to important concepts in the grade 6 Science curriculum.

Eligible Audience: Grade 6 Science Teachers and Special Education Teachers

P-SCIE-0885-09-001

November 12, 2009

4:30 PM - 6:30 PM

Thursday

Corporate Landing MS

Instructor: Overstreet, Verna T

2 License Renewal Points/2 PDP Hours

21st Century Grade 6 Science Professional Development - Community - III PDP

This set of workshop sessions will focus on sharing a variety of effective instructional strategies in the grade 6 Science classroom. The activities will be designed to promote comprehension and involve students in problem-solving activities that connect to important concepts in the grade 6 Science curriculum.

Eligible Audience: Grade 6 Science Teachers and Special Education Teachers

P-SCIE-0886-09-001

February 10, 2010

4:30 PM - 6:30 PM

Wednesday

Corporate Landing MS

Instructor: Overstreet, Verna T

2 License Renewal Points/2 PDP Hours

21st Century Grade 6 Science Professional Development - Community - IV PDP

This set of workshop sessions will focus on sharing a variety of effective instructional strategies in the grade 6 Science classroom. The activities will be designed to promote comprehension and involve students in problem-solving activities that connect to important concepts in the grade 6 Science curriculum.

Eligible Audience: Grade 6 Science Teachers and Special Education Teachers

P-SCIE-0887-09-001

April 21, 2010

4:30 PM - 6:30 PM

Wednesday

Corporate Landing MS

Instructor: Overstreet, Verna T

2 License Renewal Points/2 PDP Hours

21st Century Life Science Professional Development - Community - I PDP

This set of workshop sessions will focus on sharing a variety of effective instructional strategies in the Life Science classroom. The activities will be designed to promote comprehension and involve students in problem-solving activities that connect to important concepts in the Life Science curriculum.

Eligible Audience: Grade 7 Science Teachers & Special Education Teachers Who Teach These Science Subjects

P-SCIE-0888-09-001

September 16, 2009

4:30 PM - 6:30 PM

Wednesday

Salem Middle School

Instructor: Sabol, Darlene R

2 License Renewal Points/2 PDP Hours

21st Century Life Science Professional Development - Community - II PDP

This set of workshop sessions will focus on sharing a variety of effective instructional strategies in the Life Science classroom. The activities will be designed to promote comprehension and involve students in problem-solving activities that connect to important concepts in the Life Science curriculum.

Eligible Audience: Grade 7 Science Teachers & Special Education Teachers Who Teach These Science Subjects

P-SCIE-0889-09-001

November 12, 2009

4:30 PM - 6:30 PM

Thursday

Salem Middle School

Instructor: Sabol, Darlene R

2 License Renewal Points/2 PDP Hours

21st Century Life Science Professional Development - Community - III PDP

This set of workshop sessions will focus on sharing a variety of effective instructional strategies in the Life Science classroom. The activities will be designed to promote comprehension and involve students in problem-solving activities that connect to important concepts in the Life Science curriculum.

Eligible Audience: Grade 7 Science Teachers & Special Education Teachers Who Teach These Science Subjects

P-SCIE-0890-09-001

February 10, 2010

4:30 PM - 6:30 PM

Wednesday

Salem Middle School

Instructor: Sabol, Darlene R

2 License Renewal Points/2 PDP Hours

21st Century Life Science Professional Development - Community - IV PDP

This set of workshop sessions will focus on sharing a variety of effective instructional strategies in the Life Science classroom. The activities will be designed to promote comprehension and involve students in problem-solving activities that connect to important concepts in the Life Science curriculum.

Eligible Audience: Grade 7 Science Teachers & Special Education Teachers Who Teach These Science Subjects

P-SCIE-0891-09-001

April 21, 2010

4:30 PM - 6:30 PM

Wednesday

Salem Middle School

Instructor: Sabol, Darlene R

2 License Renewal Points/2 PDP Hours

21st Century Oceanography Professional Development - Community - I PDP

This set of workshop sessions will focus on sharing a variety of effective instructional strategies in the Oceanography classroom. The activities will be designed to promote comprehension and aid problem-solving for students with concepts presented in the Oceanography curriculum.

Eligible Audience: Oceanography Teachers

P-SCIE-0892-09-001

September 16, 2009

3:00 PM - 5:00 PM

Wednesday

Bayside HS

Instructor: Hyman, Pamela D

2 License Renewal Points/2 PDP Hours

21st Century Oceanography Professional Development - Community - II PDP

This set of workshop sessions will focus on sharing a variety of effective instructional strategies in the Oceanography classroom. The activities will be designed to promote comprehension and aid problem-solving for students with concepts presented in the Oceanography curriculum.

Eligible Audience: Oceanography Teachers

P-SCIE-0893-09-001

November 12, 2009

3:00 PM - 5:00 PM

Thursday

Bayside HS

Instructor: Hyman, Pamela D

2 License Renewal Points/2 PDP Hours

21st Century Oceanography Professional Development - Community - III PDP

This set of workshop sessions will focus on sharing a variety of effective instructional strategies in the Oceanography classroom. The activities will be designed to promote comprehension and aid problem-solving for students with concepts presented in the Oceanography curriculum.

Eligible Audience: Oceanography Teachers

P-SCIE-0894-09-001

February 10, 2010

3:00 PM - 5:00 PM

Wednesday

Bayside HS

Instructor: Hyman, Pamela D

2 License Renewal Points/2 PDP Hours

21st Century Oceanography Professional Development - Community - IV PDP

This set of workshop sessions will focus on sharing a variety of effective instructional strategies in the Oceanography classroom. The activities will be designed to promote comprehension and aid problem-solving for students with concepts presented in the Oceanography curriculum.

Eligible Audience: Oceanography Teachers

P-SCIE-0895-09-001

April 21, 2010

3:00 PM - 5:00 PM

Wednesday

Bayside HS

Instructor: Hyman, Pamela D

2 License Renewal Points/2 PDP Hours

21st Century Physical Science Professional Development - Community - I PDP

This set of workshop sessions will focus on sharing a variety of effective instructional strategies in the Physical Science classroom. The activities will be designed to promote comprehension and involve students in problem-solving activities that connect to important concepts in the Physical Science curriculum.

Eligible Audience: Grade 8 Physical Science Teachers & Special Education Teachers Who Teach These Science Subjects

P-SCIE-0896-09-001

September 16, 2009

4:30 PM - 6:30 PM

Wednesday

Princess Anne MS

Instructor: Doyle, Paula M

2 License Renewal Points/2 PDP Hours

21st Century Physical Science Professional Development - Community - II PDP

This set of workshop sessions will focus on sharing a variety of effective instructional strategies in the Physical Science classroom. The activities will be designed to promote comprehension and involve students in problem-solving activities that connect to important concepts in the Physical Science curriculum.

Eligible Audience: Grade 8 Physical Science Teachers & Special Education Teachers Who Teach These Science Subjects

P-SCIE-0897-09-001

November 12, 2009

4:30 PM - 6:30 PM

Thursday

Princess Anne MS

Instructor: Doyle, Paula M

2 License Renewal Points/2 PDP Hours

21st Century Physical Science Professional Development - Community - III PDP

This set of workshop sessions will focus on sharing a variety of effective instructional strategies in the Physical Science classroom. The activities will be designed to promote comprehension and involve students in problem-solving activities that connect to important concepts in the Physical Science curriculum.

Eligible Audience: Grade 8 Physical Science Teachers & Special Education Teachers Who Teach These Science Subjects

P-SCIE-0898-09-001

February 10, 2010

4:30 PM - 6:30 PM

Wednesday

Princess Anne MS

Instructor: Doyle, Paula M

2 License Renewal Points/2 PDP Hours

21st Century Physical Science Professional Development - Community - IV PDP

This set of workshop sessions will focus on sharing a variety of effective instructional strategies in the Physical Science classroom. The activities will be designed to promote comprehension and involve students in problem-solving activities that connect to important concepts in the Physical Science curriculum.

Eligible Audience: Grade 8 Physical Science Teachers & Special Education Teachers Who Teach These Science Subjects

P-SCIE-0899-09-001

April 21, 2010

4:30 PM - 6:30 PM

Wednesday

Princess Anne MS

Instructor: Doyle, Paula M

2 License Renewal Points/2 PDP Hours

21st Century Physics Professional Development - Community - I PDP

This set of workshop sessions will focus on sharing a variety of effective instructional strategies in the physics classroom. The activities will be designed to promote comprehension and aid problem-solving for students with concepts presented in the physics curriculum.

Eligible Audience: Physics Teachers

P-SCIE-0900-09-001

September 16, 2009

3:00 PM - 5:00 PM

Wednesday

First Colonial HS

Instructor: Hayes, William R

2 License Renewal Points/2 PDP Hours

21st Century Physics Professional Development - Community - II PDP

This set of workshop sessions will focus on sharing a variety of effective instructional strategies in the physics classroom. The activities will be designed to promote comprehension and aid problem-solving for students with concepts presented in the physics curriculum.

Eligible Audience: Physics Teachers

P-SCIE-0901-09-001

November 12, 2009

3:00 PM - 5:00 PM

Thursday

First Colonial HS

Instructor: Hayes, William R

2 License Renewal Points/2 PDP Hours

21st Century Physics Professional Development - Community - III PDP

This set of workshop sessions will focus on sharing a variety of effective instructional strategies in the physics classroom. The activities will be designed to promote comprehension and aid problem-solving for students with concepts presented in the physics curriculum.

Eligible Audience: Physics Teachers

P-SCIE-0902-09-001

February 10, 2010

3:00 PM - 5:00 PM

Wednesday

First Colonial HS

Instructor: Hayes, William R

2 License Renewal Points/2 PDP Hours

21st Century Physics Professional Development - Community - IV PDP

This set of workshop sessions will focus on sharing a variety of effective instructional strategies in the physics classroom. The activities will be designed to promote comprehension and aid problem-solving for students with concepts presented in the physics curriculum.

Eligible Audience: Physics Teachers

P-SCIE-0903-09-001

April 21, 2010

3:00 PM - 5:00 PM

Wednesday

First Colonial HS

Instructor: Hayes, William R

2 License Renewal Points/2 PDP Hours

21st Century Resources for Millennial Learners: Best Practices Using NASA eClips PDP

Learn how to engage 21st century learners through the use of NASA eClips to explore science, technology, engineering, and mathematics (STEM) concepts. NASA eClips are short, relevant educational video segments designed to inspire and motivate students, helping them see real world connections.

This presentation focuses on integrating NASA eClips content into standards-based curriculum using the 5E Learning Model. Best practice in the use of educational technology is emphasized throughout this training.

You may enroll in this course to receive 2, 3, 4, or 5 PDP points.

To receive 2 PDP points: Class begins at 8:30 AM and runs to 10:30 AM. During this time participants will be introduced to NASA eClips and ways to integrate these video segments into classroom instruction. Time will be given to explore NASA eClips and other NASA resources individually.

To receive 3 PDP points: Class begins at 8:30 AM and runs to 11:45 AM with a 15 minute break at 10:30 AM. In addition to the introduction to NASA eClips, participants will explore the accompanying educator resources through hands-on experiences.

To receive 4 PDP points: Class begins at 8:30 AM and runs to 2:00 PM with a 15 minute break at 10:30 AM and lunch from 11:45 AM to 1:00 PM. In addition to the introduction to NASA eClips and exploring educator resources, participants will use NASA eClips to design their own 5E lesson to support their curriculum. These lessons will be shared with other participants in the training.

Participants may earn an additional 1 PDP point by implementing NASA eClips into their instruction. Feedback will be documented through an online form and electronic discussion forum.

Eligible Audience: All Middle School Science Teachers and Special Education Teachers of Science



P-SCIE-0904-09-001

June 23, 2009

8:30 AM - 2:00 PM

Tuesday

Landstown HS - Room 224

Instructor: **Jarramillo, Rebecca**

5 License Renewal Points/5 PDP Hours

21st Century Tools to Explore 21st Century STEM Concepts: From Podcast to Vodcast
PDP

Through hands-on experiences, participants learn how to convert audio podcasts into short digital vodcasts. Discovery Now, a daily 90-second radio program highlighting science, history, and inventions from the aerospace industry, introduces participants to innovative topics including space exploration, climate change, conservation, and robotics.

Participants will choose images and graphics to match the content of a self-selected Discovery Now audio. Using readily available software and web-based tools, participants turn each podcast into a vodcast, demonstrating their understanding of the concepts through project-based learning.

Eligible Audience: All Middle and High School Science Teachers and Special Education Teachers Who Teach Science

P-SCIE-0905-09-001

October **27**, 2009

4:30 PM - 6:30 PM

Tuesday

Salem MS

Instructor: Bowers, Sharon W

2 License Renewal Points/2 PDP Hours

P-SCIE-0905-09-002

March 31, 2010

4:30 PM - 6:30 PM

Wednesday

Salem MS

Instructor: Bowers, Sharon W

2 License Renewal Points/2 PDP Hours

Aquatic WILD PDP

The waters of the Earth, in some form, are within walking distance from anywhere on the planet. This interactive workshop will explore the fascinating world of water and the aquatic habitats it supports through interdisciplinary activities. Each teacher completing the Aquatic WILD workshop will receive a 250+ page activity guide with over 40 teacher-friendly activities. Bring a packed snack.

Class meets at Classroom of the Bay & Ocean Pavilion at the Virginia Aquarium.

Eligible Audience: Grade 6 Science, Life Science, Advanced Life Science, Earth Science, Oceanography, Biology, and AP Environmental Science Teachers

P-SCIE-0906-09-001

July 21, 2009

9:00 AM - 1:00 PM

Tuesday

Virginia Aquarium, Bay & Ocean Pav

Instructor: Virginia Aquarium Staff

4 License Renewal Points/4 PDP Hours

Biology Forum 2009 PDP

Meet with colleagues to discuss present-day topics of general interest to instructors of Biology & AP Biology. Teachers will gain an in-depth review of modern topics in the biological and environmental science fields so that they can feel comfortable working with students in a review of the research literature and a discussion of the topics. AP Biology teachers will discuss and create labs for classroom use. The forum will emphasize contextual and integrated understanding, analysis and synthesis, and conflicts and ethical issues.

Eligible Audience: Biology Teachers, AP Biology Teachers and Special Education Teachers of Biology

P-SCIE-0907-09-001

August 12, 2009

8:30 AM - 11:30 AM

Wednesday

Princess Anne HS

Instructor: Walck, Camilla C

3 License Renewal Points/3 PDP Hours

Constructing GIS Databases Using Land Navigation and GPS PDP

The course is built around a study of topics relating this course specifically to GPS and the Virginia Standards of Learning. It is assumed that teachers taking this have successfully passed the course, "Compass, GPS and Land Navigation in the Geosciences," or are experts in the field. Teachers should be familiar with topographic maps, GPS, pace counts, and movement techniques through suburban and rural terrain. The additional component of incorporating GIS enables the student to apply lessons learned from the first course to collect field data and enter into a GIS database. The course of study ends with a practical field exercise and a written quiz as an evaluative tool for content knowledge. No books are required.

Participants in this course must register with TCC prior to the first class. Participants will be contacted with TCC registration information prior to the beginning of the course.

Course meets:

June 29, 2009 9:00 AM - 4:00 PM

June 30, 2009 8:00 AM - 4:00 PM

Location: Virginia Beach Campus of Tidewater Community College

Science Building, Physical Geology Lab

Note: Tuition for this course is being paid by VBCPS. Books, materials and any college or university parking fees are the responsibility of the participant. Failure to enroll or successfully complete the course or activity through termination of employment, failure to attend or pass the course requirements with a grade of "C" or higher will result in the obligation of the Employee to reimburse the School Board entire amount of the tuition and related costs.

Eligible Audience: Earth Science, Oceanography, Astronomy, AP Environmental Science Teachers and Special Education Teachers Who Teach These Subjects

C-SCIE-0908-09-001

College Course:

Tidewater Community College

June 29 - 30

Monday, Tuesday

Monday, Tuesday

Tidewater Community College

Instructor: Michael Lyle

1 Semester Hour/30 License Renewal Points/15 PDP Hours

Cancelled

New Text and Curriculum Training:
Advanced Grade 6 Science (Mandatory)
PDP

Participants in this session will receive valuable information and insights into the print and online materials that accompany the newly adopted textbook. This training is mandatory for all Advanced Grade 6 Science teachers and Special Education teachers who assist and/or teach Advanced Grade 6 Science.

Eligible Audience: Advanced Grade 6 Science Teachers and Special Education Teachers who teach Advanced Grade 6 Science

P-SCIE-0910-09-001

July 07, 2009

1:00 PM - 4:00 PM

Tuesday

Salem MS

Instructor: Tba

3 License Renewal Points/3 PDP Hours

P-SCIE-0910-09-002

July 23, 2009

9:00 AM - 12:00 PM

Thursday

Salem MS

Instructor: Tba

3 License Renewal Points/3 PDP Hours

P-SCIE-0910-09-003

July 28, 2009

9:00 AM - 12:00 PM

Tuesday

Salem MS

Instructor: Tba

3 License Renewal Points/3 PDP Hours

P-SCIE-0910-09-004

August 05, 2009

9:00 AM - 12:00 PM

Wednesday

Salem MS

Instructor: Tba

3 License Renewal Points/3 PDP Hours

P-SCIE-0910-09-005

August 20, 2009

1:00 PM - 4:00 PM

Thursday

Salem MS

Instructor: Tba

3 License Renewal Points/3 PDP Hours

New Text and Curriculum Training:

Advanced Grade 7 Science (Mandatory)

PDP

Participants in this session will receive valuable information and insights into the print and online materials that accompany the newly adopted textbook. This training is mandatory for all Advanced Grade 7 Science teachers and Special Education teachers who assist and/or teach Advanced Grade 7 Science.

Eligible Audience: Advanced Grade 7 Science Teachers and Special Education Teachers who teach Advanced Grade 7 Science

P-SCIE-0911-09-001

July 09, 2009

1:00 PM - 4:00 PM

Thursday

Salem MS

Instructor: Tba

3 License Renewal Points/3 PDP Hours

P-SCIE-0911-09-002

July 21, 2009

9:00 AM - 12:00 PM

Tuesday

Salem MS

Instructor: Tba

3 License Renewal Points/3 PDP Hours

P-SCIE-0911-09-003

July 30, 2009

1:00 PM - 4:00 PM

Thursday

Salem MS

Instructor: Tba

3 License Renewal Points/3 PDP Hours

P-SCIE-0911-09-004

August 04, 2009

9:00 AM - 12:00 PM

Tuesday

Salem MS

Instructor: Tba

3 License Renewal Points/3 PDP Hours

P-SCIE-0911-09-005

August 19, 2009

1:00 PM - 4:00 PM

Wednesday

Salem MS

Instructor: Tba

3 License Renewal Points/3 PDP Hours

New Text and Curriculum Training:

Advanced Placement Biology (Mandatory)

PDP

Participants in this session will receive valuable information and insights into the print and online materials that accompany the newly adopted textbook. This training is mandatory for all Advanced Placement Biology teachers.

Eligible Audience: Advanced Placement Biology Teachers

P-SCIE-0912-09-001

July 09, 2009

9:00 AM - 12:00 PM

Thursday

First Colonial HS

Instructor: Tba

3 License Renewal Points/3 PDP Hours

P-SCIE-0912-09-002

August 17, 2009

1:00 PM - 4:00 PM

Monday

Kellam HS

Instructor: Tba

3 License Renewal Points/3 PDP Hours

New Text and Curriculum Training:

Advanced Placement Chemistry (Mandatory)

PDP

Participants in this session will receive valuable information and insights into the print and online materials that accompany the newly adopted textbook. This training is mandatory for all Advanced Placement Chemistry teachers.

Eligible Audience: Advanced Placement Chemistry Teachers

P-SCIE-0913-09-001

July 09, 2009

1:00 PM - 4:00 PM

Thursday

First Colonial HS

Instructor: Tba

3 License Renewal Points/3 PDP Hours

P-SCIE-0913-09-002

August 17, 2009

1:00 PM - 4:00 PM

Monday

Kellam HS

Instructor: Tba

3 License Renewal Points/3 PDP Hours

**New Text and Curriculum Training:
Advanced Placement Environmental Science
(Mandatory) PDP**

Participants in this session will receive valuable information and insights into the print and online materials that accompany the newly adopted textbook. This training is mandatory for all Advanced Placement Environmental Science Teachers.

Eligible Audience: Advanced Placement Environmental Science Teachers

P-SCIE-0914-09-001

July 07, 2009

1:00 PM - 4:00 PM

Tuesday

First Colonial HS

Instructor: Tba

3 License Renewal Points/3 PDP Hours

P-SCIE-0914-09-002

August 03, 2009

1:00 PM - 4:00 PM

Monday

First Colonial HS

Instructor: Tba

3 License Renewal Points/3 PDP Hours

**New Text and Curriculum Training:
Advanced Placement Physics B (Mandatory)
PDP**

Participants in this session will receive valuable information and insights into the print and online materials that accompany the newly adopted textbook. This training is mandatory for all Advanced Placement Physics B.

Eligible Audience: Advanced Placement Physics B Teachers

P-SCIE-0915-09-001

July 21, 2009

1:00 PM - 4:00 PM

Tuesday

First Colonial HS

Instructor: Tba

3 License Renewal Points/3 PDP Hours

P-SCIE-0915-09-002

August 03, 2009

1:00 PM - 4:00 PM

Monday

First Colonial HS

Instructor: Tba

3 License Renewal Points/3 PDP Hours

New Text and Curriculum Training:
Advanced Placement Physics C (Mandatory)
PDP

Participants in this session will receive valuable information and insights into the print and online materials that accompany the newly adopted textbook. This training is mandatory for all Advanced Placement Physics C.

Eligible Audience: Advanced Placement Physics C Teachers

P-SCIE-0916-09-001

July 21, 2009

1:00 PM - 4:00 PM

Tuesday

First Colonial HS

Instructor: Tba

3 License Renewal Points/3 PDP Hours

P-SCIE-0916-09-002

August 03, 2009

1:00 PM - 4:00 PM

Monday

First Colonial HS

Instructor: Tba

3 License Renewal Points/3 PDP Hours

New Text and Curriculum Training:
Astronomy (Mandatory) PDP

Participants in this session will receive valuable information and insights into the print and online materials that accompany the newly adopted textbook. This training is mandatory for all Astronomy teachers and Special Education teachers who assist and/or teach Astronomy.

Eligible Audience: Astronomy Teachers and Special Education Teachers who teach Astronomy

P-SCIE-0917-09-001

July 08, 2009

9:00 AM - 12:00 PM

Wednesday

Kellam HS

Instructor: Tba

3 License Renewal Points/3 PDP Hours

P-SCIE-0917-09-002

August 06, 2009

1:00 PM - 4:00 PM

Thursday

First Colonial HS

Instructor: Tba

3 License Renewal Points/3 PDP Hours

New Text and Curriculum Training: Biology (Mandatory) PDP

Participants in this session will receive valuable information and insights into the print and online materials that accompany the newly adopted textbook. This training is mandatory for all Biology teachers and Special Education teachers who assist and/or teach Biology.

Eligible Audience: Biology Teachers and Special Education Teachers who teach Biology

P-SCIE-0918-09-001

July 08, 2009

9:00 AM - 12:00 PM

Wednesday

Kellam HS

Instructor: Tba

3 License Renewal Points/3 PDP Hours

P-SCIE-0918-09-002

July 20, 2009

1:00 PM - 4:00 PM

Monday

Kellam HS

Instructor: Tba

3 License Renewal Points/3 PDP Hours

P-SCIE-0918-09-003

August 03, 2009

9:00 AM - 12:00 PM

Monday

First Colonial HS

Instructor: Tba

3 License Renewal Points/3 PDP Hours

P-SCIE-0918-09-004

August 18, 2009

1:00 PM - 4:00 PM

Tuesday

First Colonial HS

Instructor: Tba

3 License Renewal Points/3 PDP Hours

New Text and Curriculum Training: Chemistry (Mandatory) PDP

Participants in this session will receive valuable information and insights into the print and online materials that accompany the newly adopted textbook. This training is mandatory for all Chemistry teachers and Special Education Teachers who teach Chemistry.

Eligible Audience: Chemistry Teachers and Special Education Teachers who teach Chemistry

P-SCIE-0919-09-001

July 09, 2009

9:00 AM - 12:00 PM

Thursday

First Colonial HS

Instructor: Tba

3 License Renewal Points/3 PDP Hours

P-SCIE-0919-09-002

August 17, 2009

9:00 AM - 12:00 PM

Monday

Kellam HS

Instructor: Tba

3 License Renewal Points/3 PDP Hours

New Text and Curriculum Training: Earth Science (Mandatory) PDP

Participants in this session will receive valuable information and insights into the print and online materials that accompany the newly adopted textbook. This training is mandatory for all Earth Science teachers and Special Education Teachers who teach Earth Science.

Eligible Audience: Earth Science Teachers and Special Education Teachers who teach Earth Science

P-SCIE-0920-09-001

July 08, 2009
9:00 AM - 12:00 PM
Wednesday
Kellam HS
Instructor: Tba
3 License Renewal Points/3 PDP Hours

P-SCIE-0920-09-002

July 14, 2009
9:00 AM - 12:00 PM
Tuesday
First Colonial HS
Instructor: Tba
3 License Renewal Points/3 PDP Hours

P-SCIE-0920-09-003

August 06, 2009
9:00 AM - 12:00 PM
Thursday
First Colonial HS
Instructor: Tba
3 License Renewal Points/3 PDP Hours

P-SCIE-0920-09-004

August 18, 2009
1:00 PM - 4:00 PM
Tuesday
First Colonial HS
Instructor: Tba
3 License Renewal Points/3 PDP Hours

New Text and Curriculum Training: Grade 6 Science (Mandatory) PDP

Participants in this session will receive valuable information and insights into the print and online materials that accompany the newly adopted textbook. This training is mandatory for all Grade 6 Science teachers and Special Education teachers who assist and/or teach Grade 6 Science.

Eligible Audience: Grade 6 Science Teachers and Special Education Teachers who teach Grade 6 Science

P-SCIE-0921-09-001

July 07, 2009
9:00 AM - 12:00 PM
Tuesday
Salem MS
Instructor: Tba
3 License Renewal Points/3 PDP Hours

P-SCIE-0921-09-002

July 23, 2009
1:00 PM - 4:00 PM
Thursday
Salem MS
Instructor: Tba
3 License Renewal Points/3 PDP Hours

P-SCIE-0921-09-003

July 28, 2009
1:00 PM - 4:00 PM
Tuesday
Salem MS
Instructor: Tba
3 License Renewal Points/3 PDP Hours

P-SCIE-0921-09-004

August 05, 2009
1:00 PM - 4:00 PM
Wednesday
Salem MS
Instructor: Tba
3 License Renewal Points/3 PDP Hours

P-SCIE-0921-09-005

August 20, 2009
9:00 AM - 12:00 PM
Thursday
Salem MS
Instructor: Tba
3 License Renewal Points/3 PDP Hours

New Text and Curriculum Training: Grade 7 Science (Mandatory) PDP

Participants in this session will receive valuable information and insights into the print and online materials that accompany the newly adopted textbook. This training is mandatory for all Grade 7 Science teachers and Special Education teachers who assist and/or teach Grade 7 Science.

Eligible Audience: Grade 7 Science Teachers and Special Education Teachers who teach Grade 7 Science

P-SCIE-0922-09-001

July 09, 2009
9:00 AM - 12:00 PM
Thursday
Salem MS

Instructor: Tba
3 License Renewal Points/3 PDP Hours

P-SCIE-0922-09-002

July 21, 2009
1:00 PM - 4:00 PM
Tuesday
Salem MS

Instructor: Tba
3 License Renewal Points/3 PDP Hours

P-SCIE-0922-09-003

July 30, 2009
9:00 AM - 12:00 PM
Thursday
Salem MS

Instructor: Tba
3 License Renewal Points/3 PDP Hours

P-SCIE-0922-09-004

August 04, 2009
1:00 PM - 4:00 PM
Tuesday
Salem MS

Instructor: Tba
3 License Renewal Points/3 PDP Hours

P-SCIE-0922-09-005

August 19, 2009
9:00 AM - 12:00 PM
Wednesday
Salem MS

Instructor: TBA
3 License Renewal Points/3 PDP Hours

New Text and Curriculum Training: Grade 8 Science (Mandatory) PDP

Participants in this session will receive valuable information and insights into the print and online materials that accompany the newly adopted textbook. This training is mandatory for all Grade 8 Science teachers and Special Education teachers who assist and/or teach Grade 8 Science.

Eligible Audience: Grade 8 Science Teachers and Special Education Teachers who teach Grade 8 Science

P-SCIE-0923-09-001

July 08, 2009
1:00 PM - 4:00 PM
Wednesday
Kellam HS

Instructor: Tba
3 License Renewal Points/3 PDP Hours

P-SCIE-0923-09-002

July 14, 2009
1:00 PM - 4:00 PM
Tuesday
First Colonial HS

Instructor: Tba
3 License Renewal Points/3 PDP Hours

P-SCIE-0923-09-003

July 29, 2009
9:00 AM - 12:00 PM
Wednesday
Salem MS

Instructor: Tba
3 License Renewal Points/3 PDP Hours

P-SCIE-0923-09-004

August 06, 2009
1:00 PM - 4:00 PM
Thursday

First Colonial HS

Instructor: Tba
3 License Renewal Points/3 PDP Hours

P-SCIE-0923-09-005

August 18, 2009
9:00 AM - 12:00 PM
Tuesday

First Colonial HS

Instructor: Tba
3 License Renewal Points/3 PDP Hours

New Text and Curriculum Training:
Oceanography (Mandatory) PDP

Participants in this session will receive valuable information and insights into the print and online materials that accompany the newly adopted textbook. This training is mandatory for all Oceanography teachers and Special Education Teachers who teach Oceanography.

Eligible Audience: Oceanography Teachers and Special Education Teachers who teach Oceanography

P-SCIE-0924-09-001

July 08, 2009
1:00 PM - 4:00 PM
Wednesday

Kellam HS

Instructor: Tba
3 License Renewal Points/3 PDP Hours

P-SCIE-0924-09-002

July 14, 2009
1:00 PM - 4:00 PM
Tuesday

First Colonial HS

Instructor: Tba
3 License Renewal Points/3 PDP Hours

P-SCIE-0924-09-003

August 06, 2009
1:00 PM - 4:00 PM
Thursday

First Colonial HS

Instructor: Tba
3 License Renewal Points/3 PDP Hours

P-SCIE-0924-09-004

August 18, 2009
1:00 PM - 4:00 PM
Tuesday

First Colonial HS

Instructor: Tba
3 License Renewal Points/3 PDP Hours

New Text and Curriculum Training: Physics
(Mandatory) PDP

Participants in this session will receive valuable information and insights into the print and online materials that accompany the newly adopted textbook. This training is mandatory for all Physics teachers and Special Education Teachers who teach Physics.

Eligible Audience: Physics Teachers and Special Education Teachers who teach Physics

P-SCIE-0925-09-001

July 21, 2009
9:00 AM - 12:00 PM
Tuesday

First Colonial HS

Instructor: Tba
3 License Renewal Points/3 PDP Hours

P-SCIE-0925-09-002

August 03, 2009
9:00 AM - 12:00 PM
Monday

First Colonial HS

Instructor: Tba
3 License Renewal Points/3 PDP Hours

Sea Floor Mapping and Bathymetry of the Chesapeake Bay PDP

This two-day course is built around a study of topics relating specifically to the bathymetry of the Chesapeake Bay which is part of the Governor's Initiative and the Virginia Standards of Learning. The first day of this workshop will be held at Tidewater Community College. It is intended that teachers will use content material in this course to supplement their own lessons in the classroom. Highlights of this course include principles of contouring and utilizing several types of bottoms including: soundings, fathometers, and side scan sonar techniques. Use of the wave tank will supplement instructional content. The second day of this workshop will be held on the Bay, leaving from Little Creek Amphibious Base under the direction of Tidewater Community College staff. The course of study ends with a practical field exercise and a written quiz as an evaluative tool for content knowledge. No books are required. Military decals are also not required.

Participants in this course must register with TCC prior to the first class. Participants will be contacted with TCC registration information prior to the beginning of the course.

Course meets:

June 25 2009 9:00 AM - 4:00 PM

June 26 2009 8:00 AM - 4:00 PM

Location: Virginia Beach Campus of Tidewater Community College
Science Building, Physical Geology Lab/Little Creek Amphibious Base

Note: *Tuition for this course is being paid by VBCPS. Books, materials and any college or university parking fees are the responsibility of the participant. Failure to enroll or successfully complete the course or activity through termination of employment, failure to attend or pass the course requirements with a grade of "C" or higher will result in the obligation of the Employee to reimburse the School Board entire amount of the tuition and related costs.*

Eligible Audience: Physical Science, Earth Science, Oceanography, AP Environmental Science, Physics, AP Physics, and Special Education Teachers that Teach These Science Subjects

C-SCIE-0926-09-001

College Course:

Tidewater Community College

June 25 - 26, 2009

Times Vary

Thursday, Friday

Tidewater Community College

Instructor: Michael Lyle

1 Semester Hour/30 License Renewal Points/15 PDP Hours

Teacher Institute: The Art of Glass: Exploring Art and Science Connections PDP

This two-day institute is designed for anyone who is interested in linking art and science. These fast-paced two days will focus on utilizing contemporary art and artists, exploring authentic connections between art and science, exploring design activities as well as using art history, art criticism, art production and aesthetics to generate new insights and to synthesize new relationships between ideas. Participants will engage in learning experiences that promote meaningful connections between visual arts and science using carefully selected examples,

materials and terminology that are compatible with the arts. Teachers will also participate in engaging lectures, artmaking, group activities, gallery explorations, and more. Content will be presented using various differentiation strategies to address the different levels of expertise of the participants. Faculty from visual art and science will be the workshop leaders. **In order to complete your registration for The Art of Glass Workshop, please contact Alison Byrne at the Contemporary Art Center, 425-0000 ext. 22. Participants must be enrolled with the Contemporary Art Center and pay a \$50 workshop fee to hold a reservation spot.**

Instructors: Dr. Sydney Walker, Ragan Cole-Cunningham, Sharon Clohessy

Eligible Audience: All Secondary Science Teachers

P-SCIE-0927-09-001

August 17 - 18, 2009

9:00 AM - 4:00 PM

Monday, Tuesday

Contemp Art Center of VA

Instructor: Contemporary Art Center Staff

15 License Renewal Points/15 PDP Hours

Thinking Like Engineers in the 21st Century
PDP

This workshop will help you inspire and develop the next generation of NASA engineers. Learn how the Engineering Design Challenges Program, through the use of inquiry and critical thinking, can motivate your students to design the next generation of thermal protection systems (heat and conduction) or lunar plant growth chambers (life science and technology). Learn how to "teach" the scientific method through this hands-on experience.

Eligible Audience: All Middle School Science Teachers and Special Education Teachers Who Teach Science

P-SCIE-0928-09-001

July 28, 2009

9:00 AM - 12:00 PM

Tuesday

Salem MS

Instructor: Meechan, Catherine

3 License Renewal Points/3 PDP Hours

Using Modeling and Simulation to Teach Math and Science PDP

Learn how to engage 21st century learners by using modeling and simulation to teach math and science content. Computer-based models and simulations are designed to engage students to learn content while helping them see real-world connections. This presentation focuses on integrating modeling and simulation into standards-based curriculum. As participants learn about these tools, they will also see how they can be used to differentiate instruction and make their lessons more inquiry based. In addition to the introduction to modeling and simulation tools and examining lesson plans, participants will design a lesson in their own content area using modeling and simulation tools. These lessons will be shared with other participants in the training.

Eligible Audience: All Middle and High School Science Teachers and Special Education Teachers Who Teach Science



P-SCIE-0929-09-001

June 23, 2009

8:00 AM - 12:00 PM

Tuesday

Landstown HS - Room 109

Instructor: Mariano, Bridget

4 License Renewal Points/4 PDP Hours

**Joining Oyster Restoration Efforts on the
Lynnhaven River PDP**

This course will introduce teachers to Lynnhaven River watershed issues and will highlight the oyster's role in improving water quality. Teachers will prepare to conduct an oyster restoration project during the upcoming school year. Participants will leave this course with an appreciation for oyster biology, history and the ecological role that oysters serve, oyster restoration and the student restoration program, to include materials for bringing this program into their classroom. Please bring your own lunch as teachers will work through lunch.

Eligible Audience: Life Science, Biology, Oceanography, AP Environmental, Gifted Resource and Special Education Teachers who teach science subjects; biology, ecology or green club sponsors

P-SCIE-0930-09-001

August 5, 2009

9:00 AM - 4:00 PM

Wednesday

First Colonial HS

Instructor: Sorabella, Laurie

7 License Renewal Points/7 PDP Hours

**Understanding Heat and Heat Transfer
Using a Ground Source Heat Pump System
within a Project-based Learning Approach
PDP**

Under a performance contract with NORESKO, Providence Elementary School is receiving a ground source heat pump system to heat and cool its interior space. This course will employ a unique opportunity to illustrate energy and heat transfer within a project-based learning approach using Providence Elementary School utility and construction data (before-and-after) as learning examples. Emphasis will be on heat transfer, related building systems, efficiency of systems in buildings, long-term vs. short-term costs and benefits, and use of own building and Division buildings as teaching tools.

Eligible Audience: Advanced Science 6, Physical Science and Physics Teachers

P-SCIE-0931-09-001

July 21, 2009

9:00 AM - 12:00 PM

Tuesday

School Plant Training Room

Instructor: Noresco Consultants

3 License Renewal Points/3 PDP Hours

P-SCIE-0931-09-002

July 21, 2009

1:00 PM - 4:00 PM

Tuesday

School Plant Training Room

Instructor: Noresco Consultants

3 License Renewal Points/3 PDP Hours

GIS in Action I PDP

This session will provide participants an opportunity to learn, extend, or refine their skill in using the Geographic Information Systems (GIS) software to create meaningful learning experiences for the 21st century student. This session will focus on making maps for use in the science classroom.

Eligible Audience: All Middle and High School Science Teachers interested in hands-on experience with Geographical Information Systems (GIS)

P-SCIE-0934-09-001

October 14, 2009

4:15 PM - 6:15 PM

Wednesday

Kempsville MS

Instructor: Hribar/Mannarino

2 License Renewal Points/2 PDP Hours

GIS in Action II PDP

This session will provide participants an opportunity to learn, extend, or refine their skill in using the Geographic Information Systems (GIS) software to create meaningful learning experiences for the 21st century student. This session will focus on editing data for science.

Eligible Audience: All Middle and High School Science Teachers interested in hands-on experience with Geographical Information Systems (GIS)

P-SCIE-0935-09-001

November 18, 2009

4:15 PM - 6:15 PM

Wednesday

Kempsville MS

Instructor: Hribar/Mannarino

2 License Renewal Points/2 PDP Hours

GIS in Action III PDP

This session will provide participants an opportunity to learn, extend, or refine their skill in using the Geographic Information Systems (GIS) software to create meaningful learning experiences for the 21st century student. This session will focus on the 3-D application.

Prerequisite: Participants must have previously completed any GIS class, PDP, or workshop.

Eligible Audience: All Middle and High School Science Teachers interested in hands-on experience with Geographical Information Systems (GIS)

P-SCIE-0936-09-001

January 13, 2010
4:15 PM - 6:15 PM
Wednesday
Kempsville MS
Instructor: Hribar/Mannarino
2 License Renewal Points/2 PDP Hours

GIS in Action IV PDP

This session will provide participants an opportunity to learn, extend, or refine their skill in using the Geographic Information Systems (GIS) software to create meaningful learning experiences for the 21st century student. This session will focus on integrating data from other sources.

Prerequisite: Participants must have previously completed any GIS class, PDP, or workshop.

Eligible Audience: All Middle and High School Science Teachers interested in hands-on experience with Geographical Information Systems (GIS)

P-SCIE-0937-09-001

February 17, 2010
4:15 PM - 6:15 PM
Wednesday
Kempsville MS
Instructor: Hribar/Mannarino
2 License Renewal Points/2 PDP Hours

Introduction to LabQuests and Probes: 21st Century Learning Using Technology in the Classroom PDP

The LabQuest is a user-friendly handheld computer to which various science probes may be attached. This technology gives students an extraordinary opportunity for differentiated learning through scientific inquiry using kinesthetic (use of hand-held technology), visual (color touch-screen with graphs of data), and auditory learning (discussion with peers). The different probes include sensors for biology, chemistry, physics, and earth science. The first half of this workshop will focus on how to use this technology to incorporate inquiry-based labs for your subject area and then the second half you will plan on how to apply this technology to your classroom use.

Eligible Audience: All High School Science Teachers and Special Education Teachers who teach science

P-SCIE-0938-09-001

November 16, 2009

3:00 PM - 5:00 PM

Monday

Bayside HS

Instructor: Heyder, Clara J

2 License Renewal Points/2 PDP Hours

SECONDARY SCIENCE
2009-2010 PRE-APPROVED NON-DIVISION SPONSORED
PROFESSIONAL DEVELOPMENT PROGRAM (PDP) ACTIVITIES

The following events are sponsored by organizations other than Virginia Beach City Public Schools; however, they are approved as acceptable Professional Development Program (PDP) activities. Teachers wishing to participate in these events should contact directly the sponsoring agency or institution to apply or register. All costs associated with the activity are the responsibility of the teacher and/or the school. **To acquire PDP credit for any of the activities listed below, the activity must relate to the participant's primary teaching assignment and attendance must be during off-contract hours.** Professional reasons leave may not be used to fulfill PDP hours. All PDP hours must be obtained beyond contractual hours. If any of the events listed below occur during contract hours, personal reasons leave may be used provided documentation is submitted verifying personal reasons leave was used to attend the approved alternative activity. **Evidence of participation and a completed Professional Development Program Non-Division Sponsored Verification Form for Pre-Approved Activities must be reported to Joanne Lucas, Organizational Development.**

PLEASE NOTE: "In general the school board subscribes to the principle that no employee of the board shall be paid twice for the same work period," according to Virginia Beach City Public Schools School Board Policy 2-57. If pay is offered for participation in the pre-approved activity, then the PDP participant must decide whether pay or PDP is desired. Both cannot be earned for a single pre-approved activity. If pay is decided, then it is not necessary to complete the Pre-Approved Non-Division Sponsored Verification Form.

VAST Conference (4 - 7 PDP Hours)

Dulles, VA, November 5-7, 2009

Virginia Association of Science Teachers (VAST) Annual Conference. Pre-approved: Cost is the responsibility of the teacher or school.

Evidence of participation and a completed Professional Development Program Non-Division Sponsored Verification Form for Pre-Approved Activities must be reported to Joanne Lucas, Organizational Development.

TASE Conference (2 - 7 PDP Hours)

Virginia Beach, VA, Date TBD

Tidewater Association of Science Educators (TASE) Conference. Pre-approved: Cost is the responsibility of the teacher or school.

Evidence of participation and a completed Professional Development Program Non-Division Sponsored Verification Form for Pre-Approved Activities must be reported to Joanne Lucas, Organizational Development.

NSTA Eastern Regional Conference (7 PDP Hours)

Location and Date TBD

National Science Teachers Association (NSTA) Conference. Pre-approved: Cost is the responsibility of the teacher or school.

Evidence of participation and a completed Professional Development Program Non-Division Sponsored Verification Form for Pre-Approved Activities must be reported to Joanne Lucas, Organizational Development.

SECONDARY SCIENCE PRE-APPROVED NON-DIVISION SPONSORED PDP

NSTA Conference (7 PDP Hours)

Philadelphia, PA, March 18-21, 2010

National Science Teachers Association (NSTA) Conference. Pre-approved: Cost is the responsibility of the teacher or school.

Evidence of participation and a completed Professional Development Program Non-Division Sponsored Verification Form for Pre-Approved Activities must be reported to Joanne Lucas, Organizational Development.

MAMEA Conference (2-7 PDP Hours)

Location and Date TBD

Mid-Atlantic Marine Education Association (MAMEA) Conference. Pre-approved: Cost is responsibility of teacher or school.

Evidence of participation and a completed Professional Development Program Non-Division Sponsored Verification Form for Pre-Approved Activities must be reported to Joanne Lucas, Organizational Development.

Chesapeake Bay Foundation Courses (15 PDP Hours)

Various Dates

Teachers must apply and be selected for these week-long courses. Pre-approved: Cost is the responsibility of the teacher or school.

Evidence of participation and a completed Professional Development Program Non-Division Sponsored Verification Form for Pre-Approved Activities must be reported to Joanne Lucas, Organizational Development.

Department of Education Sponsored Workshops (4 - 15 PDP Hours)

Various Dates

Teachers must apply and be selected for these week-long, DOE-sponsored workshops. Pre-approved: Cost is the responsibility of the teacher or school.

Evidence of participation and a completed Professional Development Program Non-Division Sponsored Verification Form for Pre-Approved Activities must be reported to Joanne Lucas, Organizational Development.

NASA Langley Research Center/Virginia Air and Space Center Teacher Workshops

(5 PDP Hours)

Various workshops and lectures are offered through NASA Langley Research Center/Virginia Air and Space Center, in Hampton, Virginia. These workshops must directly relate to the teachers current teaching assignment. Dates and times will vary. Teachers must register for the event. The twenty-five dollar fee is the responsibility of the teacher.

Evidence of participation and a completed Professional Development Program Non-Division Sponsored Verification Form for Pre-Approved Activities must be reported to Joanne Lucas, Organizational Development.

SECONDARY SCIENCE PRE-APPROVED NON-DIVISION SPONSORED PDP

NASA Sponsored Workshops, Various Dates (4 - 15 PDP Hours)

Various Dates

Teachers must apply and be selected for these week-long, NASA-sponsored workshops. Pre-approved: Cost is the responsibility of the teacher or school. **Personnel Eligible:** Middle School Science Teachers, Oceanography Teachers, Biology Teachers, Earth Science Teachers, Physics Teachers, AP Environmental Science Teachers, and Chemistry Teachers.

Evidence of participation and a completed Professional Development Program Non-Division Sponsored Verification Form for Pre-Approved Activities must be reported to Joanne Lucas, Organizational Development.

Advanced Placement Workshops (5 - 15 PDP Hours)

Various Dates

Teachers must apply and be selected for these College Board sponsored courses. A one-day workshop qualifies for 5 PDP hours; a week-long workshop qualifies for 15 PDP hours. Pre-approved: Cost is the responsibility of the teacher or school.

Evidence of participation and a completed Professional Development Program Non-Division Sponsored Verification Form for Pre-Approved Activities must be reported to Joanne Lucas, Organizational Development.

Vernier Technology Workshops (4 - 15 PDP Hours)

Various Dates

Teachers must apply and be selected for these week-long, Vernier Technology-sponsored workshops. Pre-approved: Cost is the responsibility of the teacher or school.

Evidence of participation and a completed Professional Development Program Non-Division Sponsored Verification Form for Pre-Approved Activities must be reported to Joanne Lucas, Organizational Development.

WHRO Online Courses (7 - 15 PDP Hours)

Various Dates

Teachers must apply and be selected for these WHRO online courses. Course titles and descriptions can be found at www.whro.com. Pre-approval must be granted on an individual basis by the science coordinators.

Evidence of participation and a completed Professional Development Program Non-Division Sponsored Verification Form for pre-approved activities must be reported to Joanne Lucas, Organizational Development.

JASON Academy Online Courses (15 PDP Hours)

Various Dates

Teachers must apply and be selected for these JASON Academy-sponsored courses. Course titles and descriptions can be found at www.jason.org. Pre-approval must be granted on an individual basis by the science coordinators. Cost is the responsibility of the teacher or the school.

Evidence of participation and a completed Professional Development Program Non-Division Sponsored Verification Form for Pre-Approved Activities must be reported to Joanne Lucas, Organizational Development.

SECONDARY SCIENCE PRE-APPROVED NON-DIVISION SPONSORED PDP

College Science Courses (15 PDP Hours)

Various Dates

Successful completion of any college or graduate course in science that pertains to the current teaching assignment is acceptable. Registration and cost are the responsibility of the teacher.

Evidence of participation and a completed Professional Development Program Non-Division Sponsored Verification Form for Pre-Approved Activities must be reported to Joanne Lucas, Organizational Development.

Virginia Institute of Marine Science (VIMS) Teacher Workshops (PDP Hours: VARIES)

The Chesapeake Bay National Estuarine Research Reserve in Virginia (CBNERRVA) is offering these workshops free to teachers. More information and full itineraries can be found at www.vims.edu/cbnerr/ by surfing to the *Education and Outreach* tab to *Teacher Training Workshops*, or contact Sarah McGuire at 804-684-7878 or email, mcguire@vims.edu. To apply: Please send *name, home address, home phone, summer email address, school name and location, grade and subject taught, and if you plan to take one (which day) or both days of the workshop* to Sarah McGuire, at mcguire@vims.edu.

Evidence of participation and a completed Professional Development Program Non-Division Sponsored Verification Form for Pre-Approved Activities must be reported to Joanne Lucas, Organizational Development.

NOAA Sponsored Workshops (4 - 15 PDP Hours)

Teachers must apply and be selected for these National Oceanic and Atmospheric Administration (NOAA) workshops. Pre-approved: Cost is the responsibility of the teacher or school.

Evidence of participation and a completed Professional Development Program Non-Division Sponsored Verification Form for Pre-Approved Activities must be reported to Joanne Lucas, Organizational Development.

Nauticus Professional Development Workshops (2-15 PDP Hours)

Various workshops and lectures are offered at Nauticus through the National Maritime Center, in Norfolk, Virginia. These workshops must directly relate to the teachers current teaching assignment. Dates and times will vary.

Evidence of participation and a completed Professional Development Program Non-Division Sponsored Verification Form for Pre-Approved Activities must be reported to Joanne Lucas, Organizational Development.

Nauticus Open House (2 PDP Hours)

Explore Nauticus workshops, programs, exhibits, and the National Oceanic and Atmospheric Administration (NOAA) resource center during the Nauticus Open House.

Evidence of participation and a completed Professional Development Program Non-Division Sponsored Verification Form for Pre-Approved Activities must be reported to Joanne Lucas, Organizational Development.

SECONDARY SCIENCE PRE-APPROVED NON-DIVISION SPONSORED PDP

TACT Workshops for Chemistry Teachers (2 - 5 PDP Hours Per Workshop)

Various Dates

Tidewater Association of Chemistry Teachers (TACT). Pre-approved: Cost is responsibility of the teacher or school. A copy of conference registration and/or proof of attendance must be submitted to the High School Science Coordinator.

Evidence of participation and a completed Professional Development Program Non-Division Sponsored Verification Form for Pre-Approved Activities must be reported to Joanne Lucas, Organizational Development.

Virginia Aquarium Teacher Open House (2 PDP Hours)

Virginia Aquarium. Eligible Audience: Life Science Teachers, Oceanography Teachers, Physics Teachers, and Biology Teachers.

Evidence of participation and a completed Professional Development Program Non-Division Sponsored Verification Form for Pre-Approved Activities must be reported to Joanne Lucas, Organizational Development.

Virginia Aquarium Workshops and Lectures (2-15 PDP Hours)

Various workshops and lectures are offered through the Virginia Aquarium, in Virginia

Beach, Virginia. These workshops must directly relate to the teachers current teaching assignment. Any costs are the responsibility of the teacher or school. Dates and times will vary.

Evidence of participation and a completed Professional Development Program Non-Division Sponsored Verification Form for Pre-Approved Activities must be reported to Joanne Lucas, Organizational Development.

POW! The Planning of Wetlands (6 PDP Hours)

Learn to create your own wetland habitat and teach your students important lessons in science, math, engineering, and social studies. Empower students to make a difference in their communities. Create a wildlife habitat and improve environmental quality.

Eligible Audience: Middle School Grade 6, Life Science Teachers, High School Biology Teachers

Evidence of participation and a completed Professional Development Program Non-Division Sponsored Verification Form for Pre-Approved Activities must be reported to Joanne Lucas, Organizational Development.

ASCD Conferences/Workshops (2 - 15 PDP Hours)

Various workshops and conferences are offered through the Association for Supervision and Curriculum Development (ASCD). These workshops/conferences must directly relate to classroom instruction. Any costs are the responsibility of the teacher or school. Dates and times will vary.

Evidence of participation and a completed Professional Development Program Non-Division Sponsored Verification Form for Pre-Approved Activities must be reported to Joanne Lucas, Organizational Development.

SECONDARY SCIENCE PRE-APPROVED NON-DIVISION SPONSORED PDP

Learning Through NSTA Web Seminars (2 PDP Hours Per Seminar)

Design your own professional development by choosing to participate in any two of the many National Science Teachers Association (NSTA) Web seminars offered. Any costs are the responsibility of the teacher or school. From these seminars, apply what you've learned to your classroom to share real-world experiences with your students. Eligible Audience: All Secondary Science Teachers. For an additional 2 PDP credits, meet face-to-face with your peers to reflect and share your findings with others.

Evidence of participation and a completed Professional Development Program Non-Division Sponsored Verification Form for Pre-Approved Activities must be reported to Joanne Lucas, Organizational Development.

Learning Through NSTA Web Seminars (2 PDP Hours Per Seminar)

Design your own professional development by choosing to participate in any two of the many National Science Teachers Association (NSTA) Web seminars offered. From these seminars, apply what you've learned to your classroom to share real-world experiences with your students. Eligible Audience: All Secondary Science Teachers.

For an additional 2 PDP credits, meet face-to-face with your peers to reflect and share your findings with others.

Evidence of participation and a completed Professional Development Program Non-Division Sponsored Verification Form for Pre-Approved Activities must be reported to Joanne Lucas, Organizational Development.

From the NSTA Web Seminar site http://institute.nsta.org/web_seminars.asp

The National Science Teachers Association (NSTA) Web Seminars are 90-minute, live professional development experiences that use online learning technologies to allow participants to interact with nationally acclaimed experts, NSTA Press authors, scientists, engineers, and education specialists from

NSTA government partners such as NASA, the National Oceanic and Atmospheric Administration (NOAA), the Food and Drug Administration (FDA), and the National Science Digital Library (NSDL). Here's what makes NSTA Web Seminars such unique professional development opportunities:

- Seminars are conveniently scheduled to allow educators from all U.S. time zones to participate!
- Travel is not required -- the program takes place at your desktop!
- Get real-time answers to your questions from content and pedagogical experts!
- The programs are live and interactive -- all online tools are provided!

Educators use online tools that allow them to mark-up and annotate presenter's slides or share desktop applications in addition to engaging in chat with others online, answering quizzes, and poll questions. Seminars may be archived and available for viewing after the live event has occurred.

Evidence of participation and a completed Professional Development Program Non-Division Sponsored Verification Form for Pre-Approved Activities must be reported to Joanne Lucas, Organizational Development.

SECONDARY SCIENCE PRE-APPROVED NON-DIVISION SPONSORED PDP

Virginia Department of Education SOL Content, ESL, VGLA, or Bias Review Committees (15 PDP Hours)

Richmond, VA or other sites, Various Dates

Teachers selected to serve on the Standards of Learning (SOL) content review or bias review committees for the Virginia Department of Education will receive PDP hours for their participation. Any costs of participation are the responsibility of the teacher or school.

Evidence of participation and a completed Professional Development Program Non-Division Sponsored Verification Form for Pre-Approved Activities must be reported to Joanne Lucas, Organizational Development.

Virginia Air and Space Museum Educators' Open House (2 PDP Hours)

Date TBD - 3:00 p.m. to 6:00 p.m. or

Date TBD - 9:00 a.m. to 12:00 noon

Learn about teacher and student opportunities offered at the Virginia Air and Space Center. Discover new educational offerings including: Science in a Box, Space Explorers, Shuttle Simulator, and teacher workshops. **Personnel Eligible:** Oceanography Teachers, Earth Science Teachers, Physics Teachers, AP Physics Teachers, Physical Science Teachers, Grade 6 Science Teachers, and Special Education Teachers who teach any of the previously listed subjects.

Evidence of participation and a completed Professional Development Program Non-Division Sponsored Verification Form for Pre-Approved Activities must be reported to Joanne Lucas, Organizational Development.

ADDITIONAL NON-DIVISION SPONSORED PDP ACTIVITIES

Additional non-division sponsored events that can be used to fulfill the PDP requirement may be made available throughout the year. Information on these opportunities will be made available through the coordinators, grade level/department chairs, lead teachers, or specialists.

PDP ALTERNATIVES

Activities and/or events not included in this catalog may qualify for up to fifteen (15) PDP hours per school year. Teachers seeking approval for an alternative request must submit a Professional Development Program Alternative Request Application to the appropriate director prior to the event or no later than two weeks following the event. Upon completion of the activity, the signed form must be submitted to the Office of Organizational Development with appropriate documentation verifying attendance and completion of the activity. See the *PDP Information Booklet* for more information and the appropriate form.