

# Middle & High School Mathematics Professional Development Catalog

## Southern Nevada Regional Professional Development Program



Updates and changes to this catalog are frequent and can be found on the SNRPDP website:

[www.rpdp.net](http://www.rpdp.net)

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## Important Notes

- *Updates and changes to this catalog are frequent and can be found on the SNRPDP website ([www.rpdp.net](http://www.rpdp.net)).*
- *You must register for all CREDIT classes through UNLV. You must be registered as a non-degree seeking student online and pay a one-time fee of \$30 to UNLV. Payment to UNLV for the credits will also be paid online. Please bring a check for the RPDP fee to the first class session.*
- *WORKSHOP registration is now available on Pathlore.*



## *Middle School Mathematics Certificate Program*

### **Program Outline:**

This sixteen credit program is comprised of five content courses and one application course. It addresses major topics in the middle school curriculum and builds teacher content knowledge while incorporating pedagogical material. Each course includes modeling *The Components of an Effective Lesson, Teacher Expectancies*, linkage to high school and middle school math courses, connections to other disciplines, hands-on activities, interactive learning, and participation in a balanced delivery of instruction. This program is suited for both elementary and middle school teachers.

### **Course Descriptions:**

#### ***RPDPCP: Operations & Number Sets—2 Credits***

This two credit course will address operations with the following number sets: whole numbers, fractions, decimals, percents, integers, and exponentials. Great emphasis will be placed on answering the “why” behind the basic operations. (UNLV SCI 620a)

#### ***RPDPCP: Introduction to Probability/Statistics & Geometry Concepts—3 Credits***

This three credit course is designed to make teachers more comfortable in their knowledge, understanding and application of middle school mathematics. Topics covered include: simple and multi-stage probability, odds, counting methods, expected value, measures of central tendency, measures of dispersion, and graphing. (UNLV SCI 620b)

#### ***RPDPCP: Algebra for the Classroom Teacher—3 Credits***

This three credit course will emphasize linking the concepts and skills taught in a first year algebra class to previously learned material and outside experiences. The main topics in this course include: evaluating algebraic expressions, solving linear equations & inequalities, word problems, relations & functions, polynomials, solving quadratic equations, simplifying rational expressions, graphing linear equations, solving systems of linear & quadratic equations, solving higher-degree equations, and the rational root theorem. (UNLV SCI 620c)

#### ***RPDPCP: Problem Solving in Action, 6–8—3 Credits***

This three credit course has 6 mandatory class meetings with the instructor as well as outside assignments. The required assignments involve participants in solving a variety of problems that would be appropriate for the middle level student. The problems require use of 10 problem solving strategies including: going back to the definition, looking for a pattern, drawing a picture, examining a simpler problem, examining a related problem, guessing and checking, making a chart, identifying a sub-goal, writing an equation, and working backwards. This class does not have to be taken sequentially. (UNLV SCI 620e)

#### ***RPDPCP: Euclidean and Non Euclidean Geometry for Classroom Teachers—3 Credits***

This three credit course will follow the curriculum taught in a high school geometry class with an emphasis on proofs. Topics covered include the study of angles, polygons, circles, areas and volumes, congruence, similarity, constructions, transformations, and properties of right triangles. (UNLV SCI 620d)

#### ***RPDPCP: Practicum—Instructional Strategies—2 Credits***

This two credit class will require the participants to reflect and write a paper on how the *Components of an Effective Lesson, Teacher Expectancies*, and the content and pedagogy taught in the program have been implemented in their classrooms. Principals will be asked to make observations and comments, and teachers will attend classes to prepare for the PRAXIS in Middle School Mathematics. (UNLV SCI 620f)

### **Application to Degree Programs:**

The sixteen credits in this program can apply towards a Master’s degree through UNLV. For more information on Master’s programs at UNLV, go to [http://graduatecollege.unlv.edu/degree\\_programs/ci.htm](http://graduatecollege.unlv.edu/degree_programs/ci.htm), or call (702) 895-1986.

### **Certificate Completion:**

To earn the RPDP Middle School Math Certificate, one must satisfactorily complete the sixteen credits listed with a grade of at least ‘B’ in each of the six courses and pass the PRAXIS in Middle School Mathematics.



### *Middle School Mathematics Certificate Program (cont'd)*

**Course Cost:**

The cost of all Middle School Mathematics Certificate courses through SNRPDP is \$30/credit plus UNLV fees (\$45/credit as of Summer '09).

**Course Requirements:**

Grading will be based upon:

- Full attendance at all sessions.
- Full participation in all aspects of the course.
- Maintenance of a mathematics notebook throughout the course.
- Comprehensive examination over course material.

**Licensing & Salary Provisions:**

These classes CANNOT be used for initial licensure or to remove special provisions on a license.

These classes DO provide credits for salary advancement and license renewal in Clark, Lincoln, Esmerelda and Nye Counties.

**Registration Procedures:**

Use the UNLV registration system: [https://bighorn.nevada.edu/sis\\_unlv/XPLXWSRV/START.HTM](https://bighorn.nevada.edu/sis_unlv/XPLXWSRV/START.HTM).

**Polycom (Distance Classes):** All classes are available via Polycom. Contact Glenn Krieger (702) 799-3835 x209 ([gjkrieger@interact.ccsd.net](mailto:gjkrieger@interact.ccsd.net)) at least 3 weeks in advance of the class to arrange for Polycom connection. Also email Carol Long ([CLong@interact.ccsd.net](mailto:CLong@interact.ccsd.net)) at least 3 weeks in advance to have class materials sent to you.

For more information on RPDP Middle School Math Certificate courses, contact Carol Long via InterAct ([CLong@interact.ccsd.net](mailto:CLong@interact.ccsd.net)), (702) 799-3828 x253, or contact the course instructor.

### 2009–2010 Course Schedule (subject to change):

**Fall Semester****RPDPCP: Operations and Number Sets**

UNLV call number: 15996 *Registration for RPDP classes with start dates before September 12<sup>th</sup> will be completed at the first class meeting.*

Wed: Sep 2, 9, 16, 23, 30; Oct 7, 14  
4:00 pm–8:30 pm, RPDP, Suite A, Room 35  
Carol Long, SNRPDP  
[CLong@interact.ccsd.net](mailto:CLong@interact.ccsd.net)

**RPDPCP: Introduction to Probability, Statistics, and Geometry Concepts**

UNLV call number: 57646  
Wed: Oct 21, 28; Nov 4, 18, 25; Dec 2, 9; Jan 6, 13  
4:00 pm–9:00 pm, Greenspun JHS, Room 135  
Rebecca Glaser, Greenspun JHS  
[RMGlaser@interact.ccsd.net](mailto:RMGlaser@interact.ccsd.net)

**RPDPCP: Practicum—Instructional Strategies**

UNLV call number: 62297  
Mon, Nov 2 *OR* Tue, Nov 3  
4:00 pm–7:00 pm, RPDP, Suite A, Room 35  
Carol Long, SNRPDP  
[CLong@interact.ccsd.net](mailto:CLong@interact.ccsd.net)

**Spring Semester****RPDPCP: Algebra for the Classroom Teacher**

UNLV call number: TBA  
Wed: Jan 20, 27; Feb 3, 10, 17, 24; Mar 3, 10, 17  
4:00 pm–9:00 pm, Adv. Tech. Academy, Room 715  
Tia Price, Advanced Technologies Academy  
[TMPrice@interact.ccsd.net](mailto:TMPrice@interact.ccsd.net)

**RPDPCP: Operations and Number Sets**

UNLV call number: TBA  
Thu: Jan 21, 28; Feb 4, 11, 18, 25; Mar 4  
4:00 pm–8:30 pm, RPDP, Suite A, Room 35  
Carol Long, SNRPDP  
[CLong@interact.ccsd.net](mailto:CLong@interact.ccsd.net)

**RPDPCP: Problem Solving in Action, 6–8**

UNLV call number: TBA  
Tue: Feb 2, 16; Mar 2, 16; Apr 6, 20  
4:00 pm–9:00 pm, Arbor View HS, Room 703  
Wendy Morris, Arbor View HS,  
[wgmorris@interact.ccsd.net](mailto:wgmorris@interact.ccsd.net)

**RPDPCP: Practicum—Instructional Strategies**

UNLV call number: TBA  
Mon, Feb 8 *OR* Tue, Feb 9  
4:00 pm–7:00 pm, RPDP, Suite A, Room 35  
Carol Long, SNRPDP  
[CLong@interact.ccsd.net](mailto:CLong@interact.ccsd.net)



*Middle School Mathematics Certificate Program (cont'd)*

**2009–2010 Course Schedule (subject to change):**

**Spring Semester (cont'd)**

*RPDPCP: Introduction to Probability, Statistics, and Geometry Concepts*

UNLV call number: TBA

Thu: Mar 11, 18, 25; Apr 8, 15, 22, 29; May 6, 13

4:00 pm–9:00 pm, Greenspun JHS, Room 135

Rebecca Glaser, Greenspun JHS

RMGlaser@interact.ccsd.net

*RPDPCP: Euclidean and Non-Euclidean Geometry for the Classroom*

UNLV call number: TBA

Wed: Mar 24; Apr 7, 14, 21, 28; May 5, 12, 19, 26

4:00 pm–9:00 pm, Green Valley HS, Room 322

Nicholas Mele, Green Valley HS

nmele@interact.ccsd.net

***Please Note: The dates above are correct; dates on the UNLV website may differ.***



## Middle School Mathematics Advanced Studies Program

### Advanced Studies Program Outline:

This eighteen credit program may apply to the *Advanced Studies Certification (ASC)* column on the Clark County School District Salary Schedule. It consists of the sixteen credit Middle School Mathematics Certificate Program, plus two one-credit courses in content literacy and graphing calculator technology.

### Course Descriptions:

For descriptions of the six Middle School Mathematics Certificate Program courses below, see page 1.

**RPDPCP: Operations & Number Sets—2 Credits**

**RPDPCP: Introduction to Probability/Statistics & Geometry Concepts—3 Credits**

**RPDPCP: Algebra for the Classroom Teacher—3 Credits**

**RPDPCP: Problem Solving in Action, 6–8—3 Credits**

**RPDPCP: Euclidean and Non Euclidean Geometry for Classroom Teachers—3 Credits**

**RPDPCP: Practicum—Instructional Strategies—2 Credits**

**RPDP: Literacy in the Content Area—1 Credit**

This course will focus on using literacy to enhance instruction in all the secondary content areas. Using “hands-on” activities and the workshop method of instruction, the participants will engage in reading, writing, speaking, and listening activities designed to reinforce content knowledge while emphasizing language and process learning. Sessions will feature various aspects of literacy (reading, writing, and vocabulary strategies) to enhance the reading and writing of non-fiction text.  
(UNLV RPDP 530b)

**RPDP: Introduction to TI-83/84—1 Credit**

This course is only for beginning users. Participants of this course will focus on the appropriate use of technology to solve problems using a variety of calculator functions such as: tables, graphs and the home screen.  
(UNLV SCI 620g)

**OR**

**RPDPCP: Intermediate TI-83/84—1 Credit**

Participants will focus on the appropriate use of technology to solve problems using a variety of calculator functions such as: tables, graphs and the home screen. This course will pick-up where an introductory course would stop. In this course participants will be asked to write some low level programs, while exploring functions under different menu items.  
(UNLV SCI 640f\*)

\*Several courses have the same UNLV course number, but will be differentiated on transcripts by their titles.

### ASP Enrollment:

This program is eligible for *Advanced Studies Certification (ASC)* through the Center for Teaching Excellence. To enroll, contact Chelli Smith via *InterAct*.

### Certificate Completion:

To earn the RPDP Middle School Math Advanced Studies Certificate, one must satisfactorily complete the eighteen credits listed with a grade of at least ‘B’ in each of the eight courses and pass the PRAXIS in Middle School Mathematics.

### Course Cost:

The cost of Middle School Advanced Studies Certification courses through SNRPDP is \$30/credit plus UNLV fees (\$45/credit as of Summer ‘09).

### Course Requirements:

Grading will be based upon:

- Full attendance at all sessions.
- Full participation in all aspects of the course.
- Maintenance of a mathematics notebook throughout the course.
- Comprehensive examination over course material.



***Middle School Mathematics Advanced Studies Program (cont'd)***

**Polycom (Distance Classes):** All classes are available via Polycom. Contact Glenn Krieger (gjkrieger@interact.ccsd.net) at least 3 weeks in advance of the class to arrange for Polycom connection. Also email Carol Long (CLong@interact.ccsd.net) at least 3 weeks in advance to have class materials sent to you.

For more information on RPDP Middle School Math Advanced Studies Program courses, contact Carol Long via InterAct (CLong@interact.ccsd.net), (702) 799-3835, ext 253, or contact the course instructor.

**2009–2010 Course Schedule (subject to change):**

*See Middle School Mathematics Certificate Program course schedule on pages 2–3 for other courses.*

**Summer 2009**

*RPDPCP: Introduction to TI-83/84*  
UNLV call number: 96848  
Tue–Wed: Jun 9–10  
8:00 am–4:00 pm, RPDP, Room 37  
Sara Arizmendez, SNRPDP  
SSArizme@interact.ccsd.net

*RPDPCP: Intermediate TI-83/84*  
UNLV call number: 06597  
Thu–Fri: Jun 11–12  
8:00 am–4:00 pm, RPDP, Room 37  
Sara Arizmendez, SNRPDP  
SSArizme@interact.ccsd.net

**Fall Semester**

*RPDPCP: Introduction to TI-83/84*  
UNLV call number: 67198 *Registration for RPDP classes with start dates before September 12<sup>th</sup> will be completed at the first class meeting.*  
Thu–Sat: Aug 27, 28, 29  
4:00 pm–8:00 pm Th/Fr; 8:00 am–3:00 pm Sat  
RPDP, Room 37  
Sara Arizmendez, SNRPDP  
SSArizme@interact.ccsd.net

*RPDPCP: Intermediate TI-83/84*  
UNLV call number: 72147 *Registration for RPDP classes with start dates before September 12<sup>th</sup> will be completed at the first class meeting.*  
Thu–Sat: Sep 3, 4, 5  
4:00 pm–8:00 pm Th/Fr; 8:00 am–3:00 pm Sat  
RPDP, Room 37  
Sara Arizmendez, SNRPDP  
SSArizme@interact.ccsd.net

*RPDP: Literacy in the Content Area*  
UNLV call number: 60796  
Thu–Sat: Sep 24, 25, 26  
Thu & Fri, 4:00 pm–8:00 pm; Sat, 8:00 am–3:00 pm  
RPDP, Suite B, Room 37  
Sara Lasley and Cheryl Barnson, SNRPDP  
cbb536@interact.ccsd.net

**Spring Semester**

*RPDPCP: Introduction to TI-83/84*  
UNLV call number: TBA  
Thu–Sat: Jan 21, 22, 23  
4:00 pm–8:00 pm Th/Fr; 8:00 am–3:00 pm Sat  
RPDP, Room 37  
Sara Arizmendez, SNRPDP  
SSArizme@interact.ccsd.net

*RPDPCP: Intermediate TI-83/84*  
UNLV call number: TBA  
Thu–Sat: Jan 28, 29, 30  
4:00 pm–8:00 pm Th/Fr; 8:00 am–3:00 pm Sat  
RPDP, Room 37  
Sara Arizmendez, SNRPDP  
SSArizme@interact.ccsd.net

*RPDP: Literacy in the Content Area*  
UNLV call number: TBA  
Fri, Mar 12, Sat, Mar 13, Mon, Mar 15  
Mon. & Fri. 4:00–8:00 pm, Sat. 8:00 am–3:00 pm  
RPDP, Suite B, Room 37  
Cheryl Barnson, SNRPDP  
cbb536@interact.ccsd.net

**Summer 2010**

*RPDPCP: Introduction to TI-83/84*  
UNLV call number: TBA  
Mon–Tue: Jun 7–8  
8:00 am–4:00 pm, RPDP, Room 37  
Sara Arizmendez, SNRPDP  
SSArizme@interact.ccsd.net

*RPDPCP: Intermediate TI-83/84*  
UNLV call number: TBA  
Wed–Thu: Jun 9–10  
8:00 am–4:00 pm, RPDP, Room 37  
Sara Arizmendez, SNRPDP  
SSArizme@interact.ccsd.net



## High School Mathematics Certificate Program

### Program Outline:

This sixteen credit program is comprised of five content overview courses and one technology course. It addresses major topics in the high school curriculum and gives teachers multiple perspectives on teaching students who take the corresponding courses, in addition to literacy in mathematics and connections to science. Each course includes modeling *The Components of an Effective Lesson*, *Teacher Expectancies*, linkage to high school and middle school math courses, connections to other disciplines, hands-on activities, interactive learning, and participation in a balanced delivery of instruction.

### Course Descriptions:

#### ***RPDPCP: Geometry Overview for HS Teachers—3 Credits***

This three-credit course addresses major topics from the high school geometry curriculum. Course content includes: problem-solving skills, basic geometric concepts, reasoning skills, area, perimeter, volume, lines, angles, polygons, congruence, coordinate geometry, similarity, transformations, and circles.  
(UNLV SCI 640a)

#### ***RPDPCP: Advanced Algebra Overview for HS Teachers—3 Credits***

This three-credit course addresses major topics from the high school second-year algebra curriculum. Course content includes: concepts and skills, relations, functions, graphs, systems, polynomials, rational expressions, complex numbers, series and sequences, probability, statistics, exponential, logarithms, and matrices.  
(UNLV SCI 640b)

#### ***RPDPCP: Trigonometry and Analysis Overview for HS Teachers—3 Credits***

This three-credit course addresses the high school trigonometry and precalculus curricula with connections to previous and future mathematics courses. Main topics in this course are: Trigonometric Functions and their Graphs, Polar Coordinates, Complex Numbers, and Vectors, Discrete Concepts: Series and Sequences, and Concepts of Calculus.  
(UNLV SCI 640c)

#### ***RPDPCP: Calculus Overview for HS Teachers—3 Credits***

This three-credit course addresses major topics from the high school calculus curriculum, including, but not limited to the following: Limits and Continuity, Derivatives and Their Applications, Integrals and Their Applications, Sequences, Convergence, and Series.  
(UNLV SCI 640e)

#### ***RPDPCP: Probability and Statistics Overview for HS Teachers—3 Credits***

This three-credit course addresses major topics from the high school statistics curriculum. This three-credit course will cover topics including, but not limited to the following: Exploring Data, Planning a Study, Probability, Anticipating Patterns, and Statistical Inference.  
(UNLV SCI 640d)

#### ***RPDPCP: Intermediate TI-83/84—1 Credit***

Participants will focus on the appropriate use of technology to solve problems using a variety of calculator functions such as: tables, graphs and the home screen. This course will pick-up where an introductory course would stop. In this course participants will be asked to write some low level programs, while exploring functions under different menu items.  
(UNLV SCI 640f\*)

### Certificate Completion:

To earn the RPD High School Math Certificate, one must satisfactorily complete the sixteen credits with a grade of at least 'B' in each of the six courses.

### Course Cost:

The cost of all High School Mathematics Certificate courses through SNRPDP is \$30/credit plus UNLV fees (\$45/credit as of Summer '09).

### Registration Procedures:

Use the UNLV registration system: [https://bighorn.nevada.edu/sis\\_unlv/XPLXWSRV/START.HTM](https://bighorn.nevada.edu/sis_unlv/XPLXWSRV/START.HTM).



## High School Mathematics Certificate Program (cont'd)

### Course Requirements:

Grading will be based upon:

- Full attendance at all sessions.
- Full participation in all aspects of the course.
- Maintenance of a mathematics notebook throughout the course.
- Comprehensive examination over course material.

### Licensing & Salary Provisions:

These classes CANNOT be used for initial licensure or to remove special provisions on a license.

These classes DO provide credits for salary advancement and license renewal in Clark, Lincoln, Esmeralda and Nye Counties.

**Application to Degree Programs:** The sixteen credits in this program can apply towards a Master's degree through UNLV. For more information on Master's programs at UNLV, go to [http://graduatecollege.unlv.edu/degree\\_programs/ci.htm](http://graduatecollege.unlv.edu/degree_programs/ci.htm), or call (702) 895-1986.

**Polycom (Distance Classes):** All classes are available via Polycom. Contact Glenn Krieger (702) 799-3835 x209 ([gjkrieger@interact.ccsd.net](mailto:gjkrieger@interact.ccsd.net)) at least 3 weeks in advance of the class to arrange for Polycom connection. Also email Cassandra Arquette ([carquette@interact.ccsd.net](mailto:carquette@interact.ccsd.net)) at least 3 weeks in advance to have class materials sent to you.

For more information on RPD High School Math Certificate courses, contact Cassandra Arquette via InterAct ([carquette@interact.ccsd.net](mailto:carquette@interact.ccsd.net)) or contact the course instructor.

## 2009–2010 Course Schedule (subject to change):

### Summer 2009

#### *RPDPCP: Introduction to TI-83/84*

UNLV call number: 96848

Tue–Wed: Jun 9–10

8:00 am–4:00 pm, RPDP, Room 37

Sara Arizmendez, SNRPDP

[SSArizme@interact.ccsd.net](mailto:ssarizme@interact.ccsd.net)

#### *RPDPCP: Intermediate TI-83/84*

UNLV call number: 06597

Thu–Fri: Jun 11–12

8:00 am–4:00 pm, RPDP, Room 37

Sara Arizmendez, SNRPDP

[SSArizme@interact.ccsd.net](mailto:ssarizme@interact.ccsd.net)

### Fall Semester

#### *RPDPCP: Geometry Overview for HS Teachers*

UNLV call number: 67746 *Registration for RPD classes with start dates before September 12<sup>th</sup> will be completed at the first class meeting.*

Tue: Sep 1, 8, 15, 22, 29; Oct 6, 13, 20, 27; Nov 3, and 10

3:30 pm–7:40 pm, Greenspun JHS, Room 135

Rebecca Glaser, Greenspun JHS

[RMGlaser@interact.ccsd.net](mailto:RMGlaser@interact.ccsd.net)

#### *RPDPCP: Intermediate TI-83/84*

UNLV call number: 72147 *Registration for RPD classes with start dates before September 12<sup>th</sup> will be completed at the first class meeting.*

Thu–Sat: Sep 3, 4, 5

4:00 pm–8:00 pm Th/Fr; 8:00 am–3:00 pm Sat

RPDP, Room 37

Sara Arizmendez, SNRPDP

[SSArizme@interact.ccsd.net](mailto:ssarizme@interact.ccsd.net)

#### *RPDPCP: Advanced Algebra Overview for HS Teachers*

UNLV call number: 71396 *Registration for RPD classes with start dates before September 12<sup>th</sup> will be completed at the first class meeting.*

Thu: Sep 10, 17, 24; Oct 1, 8, 15, 22, 29; Nov 5, 12, and 19

3:30 pm–7:40 pm, Arbor View HS, Room 1317

Sara Arizmendez, SNRPDP

[SSArizme@interact.ccsd.net](mailto:ssarizme@interact.ccsd.net)

#### *RPDPCP: Trigonometry and Analysis Overview for HS Teachers*

UNLV call number: 73596

Tue: Nov 17, 24; Dec 1, 8, 15; Jan 5, 12, 19, 26; Feb 2, 9

3:30 pm–7:40 pm, Clark HS, Room 433

Lynette Quigley, Clark HS

[LLQuigle@interact.ccsd.net](mailto:LLQuigle@interact.ccsd.net)



*High School Mathematics Certificate Program (cont'd)*

**2009–2010 Course Schedule (subject to change):**

**Spring Semester**

*RPDPCP: Probability and Statistics Overview for HS*

*Teachers*

UNLV call number: TBA

Tue: Mar 2, 9, 16, 23; Apr 6, 13, 20, 27; May 4, 11, 18

3:30 pm–7:40 pm, Silverado HS, Room 317

Tom Rohnkohl, Silverado HS

TLRohnko@interact.ccsd.net

*RPDPCP: Calculus Overview for HS Teachers*

UNLV call number: TBA

Thu: Mar 4, 11, 18, 25; Apr. 8, 15, 22, 29; May 6, 13, 20

3:30 pm–7:40 pm, NWCTA, Room 504

Cassandra Arquette, SNRPDP

carquette@interact.ccsd.net

*RPDPCP: Intermediate TI-83/84*

UNLV call number: TBA

Thu–Sat: Jan 28, 29, 30

4:00 pm–8:00 pm Th/Fr; 8:00 am–3:00 pm Sat

RPDP, Room 37

Sara Arizmendez, SNRPDP

SSArizme@interact.ccsd.net

**Summer 2010**

*RPDPCP: Intermediate TI-83/84*

UNLV call number: 06597

Wed–Thu: Jun 9–10

8:00 am–4:00 pm, RPDP, Room 37

Sara Arizmendez, SNRPDP

SSArizme@interact.ccsd.net

***Please Note: The dates above are correct; dates on the UNLV website may differ.***



## High School Mathematics Advanced Studies Program

### Advanced Studies Program Outline:

This eighteen credit program may apply to the *Advanced Studies Certification (ASC)* column on the Clark County School District Salary Schedule. It consists of the sixteen credit High School Mathematics Certificate Program, plus two one-credit courses in content literacy and integration of science and mathematics.

### Course Descriptions:

For descriptions of the six High School Mathematics Certificate Program courses below, see page 7.

**RPDPCP: Geometry Overview for HS Teachers—3 Credits**

**RPDPCP: Advanced Algebra Overview for HS Teachers—3 Credits**

**RPDPCP: Trigonometry and Analysis Overview for HS Teachers—3 Credits**

**RPDPCP: Calculus Overview for HS Teachers—3 Credits**

**RPDPCP: Probability and Statistics Overview for HS Teachers—3 Credits**

**RPDPCP: Intermediate TI-83/84 Plus—1 Credit**

**RPDP: Literacy in the Content Area—1 Credit**

This course will focus on using literacy to enhance instruction in all the secondary content areas. Using “hands-on” activities and the workshop method of instruction, the participants will engage in reading, writing, speaking, and listening activities designed to reinforce content knowledge while emphasizing language and process learning. Sessions will feature various aspects of literacy (reading, writing, and vocabulary strategies) to enhance the reading and writing of non-fiction text. (UNLV RPDP 530b)

**RPDP: Integrating High School Mathematics and Science—1 Credit**

This one-credit course addresses major topics from science and mathematics and the relationships between them. Connections will be made between number operations, algebra, geometry, trigonometry, statistics, and analysis with selected topics in earth science, biology, chemistry, and physics. (UNLV SCI 640g\*) \*Several courses have the same UNLV course number, but will be differentiated on transcripts by their titles.

### ASP Enrollment:

This program is eligible for *Advanced Studies Certification (ASC)* through the Center for Teaching Excellence. One must complete all eight courses to earn the *ASC*. To enroll, contact Chelli Smith via *InterAct*.

### Course Cost:

The cost of all High School Mathematics Certificate and Advanced Studies Program courses through SNRPDP is \$30/credit plus UNLV fees (\$45/credit as of Summer ‘09).

### Course Requirements:

Grading will be based upon:

- Full attendance at all sessions.
- Full participation in all aspects of the course.
- Maintenance of a mathematics notebook throughout the course.
- Comprehensive examination over course material.

### Licensing & Salary Provisions:

These classes CANNOT be used for initial licensure or to remove special provisions on a license.

These classes DO provide credits for salary advancement and license renewal in Clark, Lincoln, Esmeralda, and Nye Counties.

### Registration Procedures:

Use the UNLV registration system: [https://bighorn.nevada.edu/sis\\_unlv/XPLXWSRV/START.HTM](https://bighorn.nevada.edu/sis_unlv/XPLXWSRV/START.HTM).

**Polycom (Distance Classes):** All classes are available via Polycom. Contact Glenn Krieger (702) 799-3835 x209 (gjkrieger@interact.ccsd.net) at least 3 weeks in advance of the class to arrange for Polycom connection. Also email Cassandra Arquette (carquette@interact.ccsd.net) at least 3 weeks in advance to have class materials sent to you.



### *High School Mathematics Advanced Studies Program (cont'd)*

For more information on RPDP High School Math Advanced Studies Program courses, contact Cassandra Arquette via InterAct (carquette@interact.ccsd.net) or contact the course instructor.

#### **2009–2010 Course Schedule (subject to change):**

*See High School Mathematics Certificate Program course schedule on pages 7–8 for other courses.*

#### **Fall Semester**

*RPDP: Literacy in the Content Area*

UNLV call number: 60796

Thu–Sat: Sep 24, 25, 26

Thu & Fri, 4:00 pm–8:00 pm; Sat, 8:00 am–3:00 pm

RPDP, Suite B, Room 37

Sara Lasley and Cheryl Barnson, SNRPDP

cbb536@interact.ccsd.net

#### **Spring Semester**

*RPDP: Integrating High School Mathematics and Science*

UNLV call number: TBA

Thu: Feb 4, 11, 18, 25

4:30 pm–7:40 pm, Arbor View HS, Room 603

Karl Spendlove and Bret Sibley, SNRPDP

lkspendlove@interact.ccsd.net

*RPDP: Literacy in the Content Area*

UNLV call number: TBA

Fri, Mar 12, Sat, Mar 13, Mon, Mar 15

Mon. & Fri. 4:00 pm–8:00 pm, Sat. 8:00 am–3:00 pm

RPDP, Suite B, Room 37

Cheryl Barnson, SNRPDP

cbb536@interact.ccsd.net

***Please Note: The dates above are correct; dates on the UNLV website may differ.***



## *PRAXIS II Overview for Math Content Knowledge*

### **Course Description:**

This review class addresses the math content needed to be successful on the *PRAXIS II* high school math exam. Topics will be explored from multiple perspectives, including linkage to algebra, geometry, trigonometry, precalculus, and calculus concepts. Students will participate in a balanced delivery of instruction via direct methods, problem solving, and interactive learning using the TI 83/84 calculator. All instruction will model *The Components of an Effective Lesson* and *Teacher Expectancies*.

This course will focus on the following topics: Arithmetic and Basic Algebra, Geometry, Trigonometry, Analytic Geometry, Functions and Their Graphs, Calculus, Probability and Statistics, Discrete Mathematics, Linear Algebra, Computer Science, and Mathematical Reasoning and Modeling.

### **Course Cost:**

The cost of this course is \$30.

### **Course Requirements:**

- Full attendance at all sessions.
- Full participation in all aspects of the course.
- Maintenance of a mathematics notebook throughout the course.

### **Licensing & Salary Provisions:**

These classes CANNOT be used for initial licensure or to remove special provisions on a license. These classes DO NOT provide credits for salary advancement and/or license renewal.

### **Registration Procedures:**

Use the Pathlore registration system: <http://pathlore.ccsd.net/stc/student/psciis.dll?mainmenu=student>.

For more information about the *Praxis II Overview* course, contact Cassandra Arquette via InterAct ([carquette@interact.ccsd.net](mailto:carquette@interact.ccsd.net)) or contact the course instructor.

**Polycom (Distance Classes):** All classes are available via Polycom. Contact Glenn Krieger (702) 799-3835 x209 ([gjkrieger@interact.ccsd.net](mailto:gjkrieger@interact.ccsd.net)) at least 3 weeks in advance of the class to arrange for Polycom connection. Also email Cassandra Arquette ([carquette@interact.ccsd.net](mailto:carquette@interact.ccsd.net)) at least 3 weeks in advance to have class materials sent to you.

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### **2009–2010 Course Schedule (subject to change):**

#### **Fall Semester**

*RPDP: PRAXIS II Overview for Math Content Knowledge*

Thu: October 1, 8, 15, 22, 29  
3:30 pm–6:30 pm, Greenspun JHS, Room 135  
Rebecca Glaser, Greenspun JHS  
[RMGlaser@interact.ccsd.net](mailto:RMGlaser@interact.ccsd.net)

#### **Spring Semester**

*RPDP: PRAXIS II Overview for Math Content Knowledge*

Mon, Tues: March 1, 2, 8, 9, 15  
3:30 pm–6:30 pm, Greenspun JHS, Room 135  
Rebecca Glaser, Greenspun JHS  
[RMGlaser@interact.ccsd.net](mailto:RMGlaser@interact.ccsd.net)



## Secondary Mathematics Technology Courses

### Program Outline:

These one credit courses provide teachers with the training needed to become proficient in using technology in the mathematics classroom. Each course in its respective series builds upon the previous course(s). It is recommended that teachers, particularly those unfamiliar with the particular calculator or software, take the courses in sequence.

### Course Descriptions:

#### **RPDP: Introduction to TI-83/84—1 Credit**

This course is only for beginning users. Participants of this course will focus on the appropriate use of technology to solve problems using a variety of calculator functions such as: tables, graphs and the home screen.  
(UNLV SCI 620g)

#### **RPDPCP: Intermediate TI-83/84—1 Credit**

Participants will focus on the appropriate use of technology to solve problems using a variety of calculator functions such as: tables, graphs and the home screen. This course will pick-up where an introductory course would stop. In this course participants will be asked to write some low level programs, while exploring functions under different menu items.  
(UNLV SCI 640f\*)

### Textbooks:

Some technology courses use textbooks that participants may purchase at RPDP cost.

### Course Cost:

The cost of all Secondary Mathematics Technology courses through SNRPDP is \$30/credit plus UNLV fees (\$45/credit as of Summer '09).

### Course Requirements:

Grading will be based upon:

- Full attendance at all sessions.
- Full participation in all aspects of the course.
- Practice using the calculator and/or software between classes.
- Quizzes and student projects.

### Licensing & Salary Provisions:

These classes CANNOT be used for initial licensure or to remove special provisions on a license.

These classes DO provide credits for salary advancement and license renewal in Clark, Lincoln, Esmeralda, and Nye Counties.

### Registration Procedures:

Use the UNLV registration system: [https://bighorn.nevada.edu/sis\\_unlv/XPLXWSRV/START.HTM](https://bighorn.nevada.edu/sis_unlv/XPLXWSRV/START.HTM).

**Polycom (Distance Classes):** All classes are available via Polycom. Contact Glenn Krieger (702) 799-3835 x209 ([gjkrieger@interact.ccsd.net](mailto:gjkrieger@interact.ccsd.net)) at least 3 weeks in advance of the class to arrange for Polycom connection. Also email Cassandra Arquette ([carquette@interact.ccsd.net](mailto:carquette@interact.ccsd.net)) at least 3 weeks in advance to have class materials sent to you.

For more information on RPDP Secondary Mathematics Technology courses, contact Cassandra Arquette via InterAct ([carquette@interact.ccsd.net](mailto:carquette@interact.ccsd.net)) or contact the course instructor.



*Secondary Mathematics Technology Courses (cont'd)*

2009–2010 Course Schedule (subject to change):

**Summer 2009**

*RPDPCP: Introduction to TI-83/84*

UNLV call number: 96848  
Tue–Wed: Jun 9–10  
8:00 am–4:00 pm, RPDP, Room 37  
Sara Arizmendez, SNRPDP  
SSArizme@interact.ccsd.net

*RPDPCP: Intermediate TI-83/84*

UNLV call number: 06597  
Thu–Fri: Jun 11–12  
8:00 am–4:00 pm, RPDP, Room 37  
Sara Arizmendez, SNRPDP  
SSArizme@interact.ccsd.net

**Fall Semester**

*RPDPCP: Introduction to TI-83/84*

UNLV call number: 67198 *Registration for RPDP classes with start dates before September 12<sup>th</sup> will be completed at the first class meeting.*

Thu–Sat: Aug 27, 28, 29  
4:00 pm–8:00 pm Th/Fr; 8:00 am–3:00 pm Sat  
RPDP, Room 37  
Sara Arizmendez, SNRPDP  
SSArizme@interact.ccsd.net

*RPDPCP: Intermediate TI-83/84*

UNLV call number: 72147 *Registration for RPDP classes with start dates before September 12<sup>th</sup> will be completed at the first class meeting.*

Thu–Sat: Sep 3, 4, 5  
4:00 pm–8:00 pm Th/Fr; 8:00 am–3:00 pm Sat  
RPDP, Room 37  
Sara Arizmendez, SNRPDP  
SSArizme@interact.ccsd.net

**Spring Semester**

*RPDPCP: Introduction to TI-83/84*

UNLV call number: TBA  
Thu–Sat: Jan 21, 22, 23  
4:00 pm–8:00 pm Th/Fr; 8:00 am–3:00 pm Sat  
RPDP, Room 37  
Sara Arizmendez, SNRPDP  
SSArizme@interact.ccsd.net

*RPDPCP: Intermediate TI-83/84*

UNLV call number: TBA  
Thu–Sat: Jan 28, 29, 30  
4:00 pm–8:00 pm Th/Fr; 8:00 am–3:00 pm Sat  
RPDP, Room 37  
Sara Arizmendez, SNRPDP  
SSArizme@interact.ccsd.net

**Summer 2010**

*RPDPCP: Introduction to TI-83/84*

UNLV call number: TBA  
Mon–Tue: Jun 7–8  
8:00 am–4:00 pm, RPDP, Room 37  
Sara Arizmendez, SNRPDP  
SSArizme@interact.ccsd.net

*RPDPCP: Intermediate TI-83/84*

UNLV call number: TBA  
Wed–Thu: Jun 9–10  
8:00 am–4:00 pm, RPDP, Room 37  
Sara Arizmendez, SNRPDP  
SSArizme@interact.ccsd.net

***Please Note: The dates above are correct; dates on the UNLV website may differ.***



## Secondary Mathematics Workshops (Variable Credit Program)

### Program Outline:

These three hour workshops focus on content, pedagogy, and assessment of one or more key topics in the middle school and high school curricula. Topics addressed in each workshop are aligned with instructional benchmarks such that they precede the time the topics are taught in the classroom.

### Secondary Mathematics Workshop Series and Topics:

#### **Middle School 6<sup>th</sup> Grade Math**

*Data Analysis, Applications with Decimals, Applications with Fractions, Application with Percents, The Coordinate Plane, Geometry and Measurement*

#### **Middle School 7<sup>th</sup> Grade Math**

*Number Sense, Ratios/Proportions, Data Analysis, Geometry, Measurement, Pre-Algebra Skills*

#### **Middle School Pre-Algebra**

*Integers & Variable Expressions, Solving Equations, Solving Inequalities, Ratios/Proportions/Data, Graphing Lines, Polynomials*

#### **Middle and High School Algebra**

*Solving Linear Equations, Graphing Linear Equations, Systems of Equations and Inequalities, Polynomials & Factoring, Quadratics, Rational Expressions & Equations*

#### **High School Proficiency**

*Number Sense, Polygons, Circles, Data Analysis, Probability, Points, Lines, and Planes, Perimeter, Area, and Volume, Item Writing, Motivating the Non-Proficient Student*

Note: Not all series or topics may be offered in a given school year.

### Variable Credit Program:

These workshops may be applied toward the *RPDP Secondary Science and Mathematics Variable Credit Program*. See a program description on page 19.

### Course Cost:

There is no cost to attend these workshops. Please contact Cheryl Barnson via InterAct (CBB536@interact.ccsd.net) or 799-3835 ext. 248 for information.

### Workshop Requirements:

- Attendance for the entire duration of workshop.
- Full participation in all aspects of the workshop.

### Registration Procedures:

Use the Pathlore registration system: <http://pathlore.ccsd.net/stc/student/psciis.dll?mainmenu=student>. You can search using key words or enter the Locator Number.

### Polycom (Distance Workshops):

Some workshops are available to rural areas via Polycom. Contact Glenn Krieger (702) 799-3835 x209 (gjkrieger@interact.ccsd.net), at least 10 days in advance of the workshop date to arrange for Polycom connection. Also, contact the instructor (e-mail address provided in relevant section) at least 10 days in advance to have workshop materials sent to you.

For more information on *RPDP Secondary Mathematics Workshops* for middle school contact Cheryl Barnson via InterAct (CBB536@interact.ccsd.net) or (702) 799-3835 x248; for high school and Projects in Data Analysis, contact Sara Arizmendez via InterAct (SSArizme@interact.ccsd.net); or contact the workshop instructor.



*Secondary Mathematics Workshops (cont'd)*

2009–2010 Workshop Schedule (subject to change):

***Middle School 6<sup>th</sup>-8<sup>th</sup> Grade Math***

*Interactive Notebooks for MS Teachers*

Thu, Aug 27  
4:00 pm–7:00 pm  
Molasky MS, Room 630  
Sherry Pendleton, Molasky MS  
spendleton@interact.ccsd.net

***Middle School 6<sup>th</sup> Grade Math***

**Pathlore Course ID: RPMAT60001**

*Data Analysis*

Tue, Sep 1  
Tue, Sep 15

*Applications with Decimals*

Tue, Oct 20  
Locator Number: 0000050283

*Applications with Fractions*

Pathlore ID: RPMAT74153  
Tue, Nov 17  
Locator Number: 0000050300

*Application with Percents*

Tue, Jan 19  
Locator Number: 0000050305

*The Coordinate Plane*

Tue, Feb 2  
Locator Number: 0000050307

*Geometry and Measurement*

Tue, Mar 16  
Locator Number: 0000050310

4:00 pm–7:00 pm  
Lied MS, Room 804  
Cynthia Jenkins, Lied MS  
CAJ243@interact.ccsd.net

***Middle School 7<sup>th</sup> Grade Math***

**Pathlore Course ID: RPMAT60002**

*Number Sense*

Thu, Sept 10  
Thu, Sept 24

*Ratios/Proportions*

Thu, Oct 8

*Data Analysis*

Thu, Dec 3  
Locator Number: 0000050357

*Geometry*

Thu, Jan 28  
Locator Number: 0000050359

*Measurement*

Thu, Feb 11  
Locator Number: 0000050362

*Pre-Algebra Skills*

Thu, Mar 11  
Locator Number: 0000050363

4:00 pm–7:00 pm  
Lied MS, Room 824  
Michelle Tighe, Lied MS  
mtighe@interact.ccsd.net



*Secondary Mathematics Workshops (cont'd)*

2009–2010 Workshop Schedule (subject to change):

*Middle School Pre-Algebra*

**Pathlore Course ID: RPMAT80100**

*Integers and Variable Expressions*

Wed, Sep 2

Wed, Sep 16

*Solving Equations*

Wed, Oct 21

Locator Number: 0000050369

*Solving Inequalities*

Wed, Nov 18

Locator Number: 0000050371

*Ratios, Proportions, and Data*

Wed, Dec 16

Locator Number: 0000050372

*Graphing Lines*

Wed, Feb 17

Locator Number: 0000050373

*Polynomials*

Wed, Mar 17

Locator Number: 0000050374

4:00 pm–7:00 pm

Escobedo MS, Room 820

Joanna Martino, Escobedo MS

[jmartino@interact.ccsd.net](mailto:jmartino@interact.ccsd.net)



*Secondary Mathematics Workshops (cont'd)*

**2009–2010 Workshop Schedule (cont'd):**

***Middle and High School Algebra***  
**Pathlore Course ID: RPMAT80200**

*Solving Linear Equations*  
Wed, Sep 16  
Tue, Sep 22

*Graphing Linear Equations*  
Wed, Oct 21  
Locator Number: 0000050375

*Systems of Equations and Inequalities*  
Thu, Nov 19  
Locator Number: 0000050378

*Polynomials & Factoring*  
Thu, Jan 21  
Locator Number: 0000050379

*Quadratics*  
Thu, Feb 18  
Locator Number: 0000050380

*Rational Expressions & Equations*  
Thu, Mar 18  
Locator Number: 0000050381

4:00 pm–7:00 pm  
Veterans Tribute CTA, Room E200  
Debbie Lawrence, Veterans Tribute CTA  
dlawrence@interact.ccsd.net

***High School Proficiency***  
**Pathlore Course ID: RPMAT71000**

*Numbers and Operations*  
Thu, Sep 10

*Algebra and Functions*  
Thu, Oct 8

*Geometry and Measurement*  
Thu, Nov 5  
Locator Number: 0000050382

*Data, Probability, & Statistics*  
Thu, Dec 10  
Locator Number: 0000050383

4:00 pm–7:00 pm  
Desert Oasis HS, Room 1311  
Jeff Comer, Desert Oasis HS  
jmcomer@interact.ccsd.net



## Advanced Placement Math Mini-Institutes (Variable Credit Program)

### Program Outline:

The Advanced Placement Mini-Institute programs explore curriculum, pacing, textbook, technology, and test preparation issues for the Advanced Placement *Calculus AB* and *Statistics* curricula. How to build an AP program and the Course Audits will also be addressed. The sessions of the institute are benchmarked to the curriculum. Contact Sara Arizmendez via InterAct (SSArizme@interact.ccsd.net) for eligibility requirements.

### Advanced Placement Mini-Institute Series and Topics:

#### Advanced Placement Calculus

*AB/BC First Quarter Topics, AB Second Quarter Topics, AB Third Quarter Topics, AB Fourth Quarter Topics and Test Prep, BC Second Quarter Topics, BC Third Quarter Topics, BC Fourth Quarter Topics and Test Prep*

#### Advanced Placement Statistics

*First Quarter Topics, Second Quarter Topics, Third Quarter Topics, Fourth Quarter Topics and Test Prep*

### Variable Credit Program:

These workshops may be applied toward the *RPDP Secondary Science and Mathematics Variable Credit Program*. See a program description on page 19.

### Course Cost:

There is no cost to attend these mini-institute sessions.

### Workshop Requirements:

- Attendance for the entire duration of workshop.
- Full participation in all aspects of the workshops.

### Registration Procedures:

Use the Pathlore registration system: <http://pathlore.ccsd.net/stc/student/psciis.dll?mainmenu=student>.

For more information on *Advanced Placement Mini-Institutes*, contact Sara Arizmendez via InterAct (SSArizme@interact.ccsd.net), or contact the mini-institute instructor.

### 2009–2010 Mini-Institute Schedule:

#### Calculus AB

##### Pathlore Course ID: RPMAT70200

###### First Quarter Topics

Tue, Aug 18, 8 am–3 pm

###### Second Quarter Topics

Sat, Oct 3, 8 am–11 am

###### Third Quarter Topics

Locator Number: 0000050415

Sat, Dec 5, 8 am–11 am

###### Fourth Quarter Topics & Test Prep

Locator Number: 0000050416

Sat, Feb 20, 8 am–11 am

RPDP, Room 37

Cassandra Arquette, SNRPDP  
and Brian Gregorich, Desert Oasis HS  
carquette@interact.ccsd.net  
bjgregorich@interact.ccsd.net

#### Statistics

##### Pathlore Course ID: RPMAT70300

###### First Quarter Topics

Mon, Aug 17, 8 am–3 pm

###### Second Quarter Topics

Sat, Oct 10, 8 am–11 am

###### Third Quarter Topics

Locator Number: 0000050420

Sat, Dec 5, 8 am–11 am

###### Fourth Quarter Topics & Test Prep

Locator Number: 0000050421

Sat, Mar 13, 8 am–11 am

Adv. Tech. Academy, Room 715  
Tia Price, Adv. Tech. Academy  
TMPrice@interact.ccsd.net



## *RPDP Secondary Mathematics and Science Variable Credit Program*

### **Program Outline:**

A teacher may earn one credit for each 15 contact hours of fully-participated workshop time, up to a **maximum of three credits** per school year. Training hours, from any eligible middle school or high school mathematics or science training, may be combined to meet the 15-hour requirement. Credit is graduate level and is offered through UNLV.

### **Licensing & Salary Provisions:**

These classes **CANNOT** be used for initial licensure or to remove special provisions on a license. These classes **DO** provide credits for CCSD salary advancement and re-licensure.

### **Course Cost:**

The cost for the variable credit will be \$30/credit SNRPDP plus UNLV fees (\$45/credit as of Summer '09).

### **Requirements:**

- A particular workshop may only be used once for credit. (Exception: *AP Mini-Institutes*.)
- Workshops taken in previous school years may **not** be applied toward 2009–10 credit. Workshops taken in the 2009–10 school year may **not** be carried over to 2010–11.
- Credit will be issued for all workshops in the Summer 2010 Semester. Credit will not be posted until approximately August 2010.
- Participants must have registered on PATHLORE for all workshops used to earn credit. (Any workshop attended for which a participant previously registered through the RPDP “tiny url” registration page will be entered into Pathlore by a RPDP trainer.)
- Participants must enroll in the UNLV Spring Semester course.

### **Credit Application Process:**

- Print a copy of your PATHLORE transcript. On the transcript, circle or highlight any entries whose titles include, “RPDP Secondary Math and Science Workshops,” “RPDP Secondary Math Seminars,” or “AP Mini-Institutes,” that you wish to submit for credit.
- Request a *RPDP Variable Credit Tracking Form* from RPDP.
- These forms must be **RECEIVED BY RPDP ON OR BEFORE May 12, 2010**, so **allow enough time** to request and complete the forms. **Incomplete applications** OR those **received after the deadline** will result in a **denial of credit**.
- Requests and questions may be directed to :  
HS Math, Sara Arizmendez, 799-3835, ext. 246 or [ssarizme@interact.ccsd.net](mailto:ssarizme@interact.ccsd.net)  
MS Math, Cheryl Barnson, 799-3835, ext. 248 or [cbb.536@interact.ccsd.net](mailto:cbb.536@interact.ccsd.net)



## *RPDP Secondary Mathematics Summer Institutes*

### *Silver State AP Summer Institute*

This College Board-endorsed four-day summer institute offers teachers professional development in a variety of Advanced Placement and Pre-AP courses. Participants are provided with the support and training needed to teach AP courses and to utilize Pre-AP teaching strategies.

Each session includes instruction on course goals, objectives, content, resources, bibliographies, and technology. How the AP Examination is developed and graded is also covered. Teachers will learn how to prepare syllabi, lesson plans, and assignments for a quality AP program, how to build a new program, and how to refresh and improve existing AP courses.

The *Silver State AP Summer Institute* is tentatively scheduled for June 21–24, 2010, 8:00 am–4:00 pm. The site is to be determined.

AP Sessions to be considered in 2010 include:

*Art History, Biology, Calculus AB, Calculus BC, Chemistry, Chinese Language & Culture, Computer Science A & AB, Economics Macro & Micro, English Language & Composition, English Literature & Composition, Environmental Science, French Language & Literature, German Language, Government US, Japanese Language & Culture, Music Theory, Physics B, Psychology, Spanish Language, Statistics, Studio Art, US History, and World History.* Separate sessions may be offered for new and experienced teachers.

Pre-AP Sessions to be considered in 2010 include *English, Mathematics, Science, and World Languages.* Additional sessions may be offered for AP Counselors, Coordinators, and Administrators.

Participants may earn 2 graduate-level credits from University of Nevada, Las Vegas upon successful completion of all institute requirements. Participants earning credit from a previous AP Summer Institute may repeat for credit.

For more information on the *Silver State AP Summer Institute*, or to register, go to the website (<http://www.silverstateap.net>).