



## FUTURE MATH TEACHERS ENROLL IN THE UCI MATH SUBJECT MATTER PREPARATION PROGRAM (SMPP)

### Waive the math subject exam for teachers (CSET) by completing SMPP courses.

The state of California requires that all middle school and high school math teachers demonstrate an advanced level of knowledge in mathematics for six core domains: algebra, geometry, calculus, number theory, probability and statistics, and the history of mathematics. Future mathematics teachers demonstrate their math subject matter competency in one of two ways: a) take and pass the mathematics CSET exam; or b) complete a specific undergraduate program of courses and fieldwork at UCI referred to as the “Math Subject Matter Preparation Program” or SMPP. Taking the exam or completing the SMPP is a prerequisite for student teaching in a teacher credential program. Below is a list of course requirements for the UCI math SMPP. Aspiring teachers with majors in mathematics, engineering, ICS, or other related disciplines should consult an academic advisor as soon as possible to plan an undergraduate program of study that includes SMPP courses. The “**math major with a specialization in mathematics for education**” has a significant number of courses that overlap with the math SMPP.

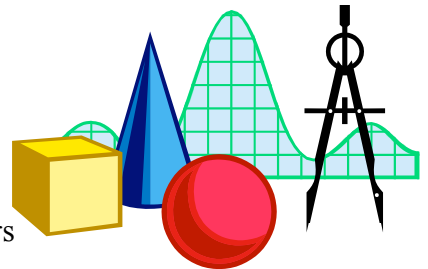
### Enroll now in the UCI Math Subject Matter Preparation Program.

Get program details and a math SMPP enrollment form from the Department of Education website at: [http://www.gse.uci.edu/AP\\_SMPP\\_Index.php](http://www.gse.uci.edu/AP_SMPP_Index.php).

### Get More Information.

Department of Education Office of Student Services, 2000 Berkeley Place, 949-824-3348, <http://www.gse.uci.edu>

- ✓ Up-to-date SMPP requirements and enrollment forms
- ✓ Other undergraduate course and fieldwork options for future teachers
- ✓ CSET and other testing information for teachers
- ✓ Information on steps to becoming a math teacher & applications for the UCI credential program



## Requirements for the UCI Mathematics Subject Matter Preparation Program

<u>Mathematics Courses</u>	<u>Units</u>
<input type="checkbox"/> Math 2A      Single Variable Calculus	4
<input type="checkbox"/> Math 2B      Single Variable Calculus	4
<input type="checkbox"/> Math 2D      Multivariable Calculus	4
<input type="checkbox"/> Math 2J      Infinite Series, Complex Numbers, and Basic Linear Algebra	4
<input type="checkbox"/> Math 120A    Introduction to Abstract Algebra: Groups	4
<input type="checkbox"/> Math 120B    Introduction to Abstract Algebra: Rings and Fields	4
<input type="checkbox"/> Math 124      Algebra and Some Famous Impossibilities	4
<input type="checkbox"/> Math 140A    Elementary Analysis	4
<input type="checkbox"/> Math 161      Modern Geometry	4
<input type="checkbox"/> Math 180      Introduction to Number Theory	4
<input type="checkbox"/> Math 184      History of Mathematics	4
<input type="checkbox"/> <i>Students select one course from the following two choices:</i>	4
<input type="checkbox"/> Math 2E <sup>1</sup> Multivariable Calculus, or	
<input type="checkbox"/> Math 13        Introduction to Abstract Mathematics	

<sup>1</sup> Students doing the “math major with a specialization in mathematics for education” may select Math 2E or Math 13; all other math majors should select Math 2E.

<b><u>Mathematics Courses (continued)</u></b>		<b><u>Units</u></b>
<input type="checkbox"/>	<i>Students select one linear algebra course from the following two choices:</i> Math 3A <sup>2</sup> Introduction to Linear Algebra, or Math 6C Linear Algebra	4
<input type="checkbox"/>	<i>Students select one probability course from the following three choices:<sup>3</sup></i> Math 67 Introduction to Probability and Statistics for Computer Science, or Math 131A Mathematical Statistics, or Stats 120A Introduction to Probability and Statistics	4
<input type="checkbox"/>	<i>Students select one statistics course from the following three choices:<sup>3</sup></i> Math 7 Basic Statistics, or Math 131B Mathematical Statistics, or Stats 120B Introduction to Probability and Statistics	4

<b><u>Other Courses</u></b>		<b><u>Units</u></b>
<input type="checkbox"/>	Ed 172B (formerly Ed 172F) Teaching & Learning Secondary School Mathematics	4
<input type="checkbox"/>	<i>Students select one fieldwork option from the following <u>three</u> choices:</i> Ed/PS 114 Math-Science Education Teacher Apprentice Field Experience; or Math 192 Tutoring in Math (course is taken twice for a total of 4 units); or (PS 5 & Calif. Teach 1: Introduction to Science & Math Teaching and PS 105) Calif. Teach 2: Middle School Science & Math Teaching	4
<input type="checkbox"/>	<i>Students select one computing skills course that meets math major (or a related major) requirements. Choices include, but are not limited to:</i> ICS 21 Introduction to Computer Science I, or E 10 Computational Methods in Engineering, or ECE 10 Computational Methods in Electrical and Computer Engineering, or CEE 10 Methods I: Computation Methods in Civil & Environmental Engineering, or MAE 10 Introduction to Engineering Computations, or Physics 53 Introduction to C and Numerical Analysis	4
<input type="checkbox"/>	<i>Students select a three course series plus indicated labs in Natural Science that meet math major (or a related major) requirements, and/or meet UCI undergraduate breadth requirements. Choices include but are not limited to:</i> Physics 7A-B-D; & Labs 7LA-LB-LD Classical Physics, or Chemistry 1A-B-C; & Labs 1LB-LC General Chemistry	15 (minimum)
<input type="checkbox"/>	<i>Students complete a “capstone” assignment and SMPP culminating interview.</i> Math 189 <sup>4</sup> During one quarter of <u>senior</u> year, students register for Math 189 (pass/not pass) with instructor L. Chrystal to complete the math SMPP capstone assignment. Prerequisites: completion or concurrent enrollment in ED 172B, and completion of the SMPP fieldwork requirement (PS 114; or PS 5 & PS 105; or the first of two quarters of Math 192).	2

### **Additional Math SMPP Requirements**

- SMPP candidates must complete a **tutorial on ethics & legal issues for technology use in schools**. Students should expect to spend about four hours to complete it. Tutorial instructions are available from this website: [http://www.gse.uci.edu/AP\\_SMPP\\_Math.php](http://www.gse.uci.edu/AP_SMPP_Math.php).
- SMPP candidates must have an average, cumulative GPA of 2.0 or better for the SMPP-required courses.

<sup>2</sup> All math majors should select Math 3A.

<sup>3</sup> Math majors should select one of the upper division options for a statistics and a probability course.

<sup>4</sup> Before enrolling, contact the Physical Sciences or Education Student Affairs office to confirm the course number and section for the Math SMPP capstone in a given year.