



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.

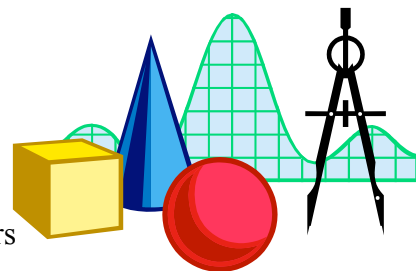
Enroll now in the UCI Math Subject Matter Preparation Program.

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.

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 120C ¹ Introduction to Abstract Algebra: Galois Theory	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 ² Multivariable Calculus, or	
<input type="checkbox"/> Math 13 Introduction to Abstract Mathematics	

¹ Math 120C was formerly Math 124. Students who completed Math 124 satisfy this requirement.

² 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.

<u>Mathematics Courses (continued)</u>		<u>Units</u>
<input type="checkbox"/>	Students select one linear algebra course from the following two choices: Math 3A ³ Introduction to Linear Algebra, or Math 6G ⁴ Linear Algebra	4
<input type="checkbox"/>	Students select one probability course from the following three choices: ⁵ 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"/>	Students select one statistics course from the following three choices: ⁵ Math 7/Stats 7 Basic Statistics, or Math 131B Mathematical Statistics, or Stats 120B Introduction to Probability and Statistics	4

<u>Other Courses</u>		<u>Units</u>
<input type="checkbox"/>	Ed 172B Teaching & Learning Secondary School Mathematics	4
<input type="checkbox"/>	Students select one fieldwork option from the following <u>three</u> choices: Ed/PS 114 Math-Science Education Teacher Apprentice Field Experience; or Math 192 Studies in the Learning and Teaching of Secondary Math (course is taken twice for a total of 4 units); or (PS 5 & PS 105) Calif. Teach 1: Introduction to Science & Math Teaching and Calif. Teach 2: Middle School Science & Math Teaching	4
<input type="checkbox"/>	Students select one computing skills course that meets math major (or a related major) requirements. Choices include, but are not limited to: ICS 21 Introduction to Computer Science I, or E 10 Computational Methods in Engineering, or EECS 10 ⁶ Computational Methods in Electrical and Computer Engineering, or EECS 12 Introduction to Programming CEE 10 Methods I: Computation Methods in Civil & Envir. Engineering, or MAE 10 Introduction to Engineering Computations, or Physics 53 Introduction to C and Numerical Analysis	4
<input type="checkbox"/>	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: 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"/>	Students complete a “capstone” assignment and SMPP culminating interview. Math 193 During one quarter of <u>senior</u> year, students register for Math 193 (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 an online **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.
- SMPP candidates must have an average, cumulative GPA of 2.0 or better for the SMPP-required courses.

³ All math majors should select Math 3A.

⁴ Math 6G was formerly Math 6C. Students who completed Math 6C satisfy this requirement.

⁵ Math majors should select one of the upper division options for a statistics and a probability course.

⁶ EECS 10 was formerly ECE 10. Students who completed ECE 10 satisfy this requirement.