



**The UCLA Mathematics Department
Undergraduate Teacher Preparation Programs**

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UCLA CalTeach-Math Overview

UCLA California Teach – Math is the UCLA Mathematics Department’s effort to train high quality mathematics teachers for local secondary schools. The program offers up to four years of courses, field experiences and professional networking opportunities. In the program, mathematics and mathematics education faculty, and current mathematics teachers will work with students to provide content and pedagogical content knowledge necessary to be a high-quality mathematics teacher. Students who complete all four years of the UCLA CalTeach-Math program will be thoroughly prepared for admission to a California (CA) credential program. Each of UCLA CalTeach-Math’s requirements serves to develop graduates who are:

High quality:

- Knowledge of pre-collegiate mathematics from a deep, extended and pedagogical perspective
- Knowledge of the connections between the undergraduate mathematics curriculum and pre-collegiate mathematics
- Knowledge of current learning theories
- Knowledge of research-based mathematics pedagogy, including assessment
- Beginning exposure to and experience with teaching small groups and whole class lessons utilizing various instructional strategies, including collaborative group and inquiry-based strategies

and Credential program-ready:

- Passed the California Basic Educational Skills Test (CBEST)
- Subject matter competent—completes UCLA Math SMPP or passes the California Subject Examination for Teachers in mathematics (CSET)
- Passed tuberculosis test
- Passed U.S. Constitution test or equivalent
- Passed background check (fingerprinting)

Note: UCLA CalTeach-Math is open to students majoring in other fields who have fulfilled the appropriate prerequisites for the program’s courses.

Our History and Background:

The UCLA Mathematics Department has been preparing undergraduates for careers in mathematics teaching since its inception. Recent data shows that UCLA produces more graduates who go on to earn a CA mathematics teaching credential than any other university in CA. Research shows that over 80% of UCLA mathematics graduates who go on to complete their teaching credential in the UCLA Teacher Education Program are still teaching five years after graduation. This is a stark contrast to the LAUSD average of 62%. Further evidence shows that a significant fraction of UCLA Mathematics Department teacher preparation program graduates become mathematics teacher-leaders increasing their impact on the mathematics education in California.

We encourage you to participate in our program. We offer solid preparation with financial support for a career in teaching, a strong foundation for future leadership in the field, and a cohort of colleagues to support.

UCLA CalTeach - Math for Mathematics Majors

Freshman	Sophomore	Junior	Senior	Post Baccalaureate
<p>Complete lower division preparation for your chosen mathematics major.*</p> <p>Complete lower division courses toward verifying Subject Matter Competence* for the CA credential (many of these are also required for the prep for your math major)</p> <ul style="list-style-type: none"> ▪ Calculus: Math 31A, 31B, 32A, 32B 33A, 33B ▪ Programming: PIC 10A ▪ Science: 3 additional courses from Astronomy 2A, Earth & Space Sciences 1, Economics 1, 2, 11, Chemistry 20AB, Physics 6ABC or 8ABC or 1ABC, Philosophy 31, 32 ▪ Linear Algebra: Math 115A <p>Recommended</p>	<p>Complete course to meet U.S. Constitution requirement for CA Credential:</p> <ul style="list-style-type: none"> ▪ 1 from Hist 13A/B/C, Hist 7A/B, Hist 151A/B, Pol Sci 1, Pol Sci 172A/B, Pol Sci 40 <p>Complete Observation & Participation courses toward CA credential:</p> <ul style="list-style-type: none"> ▪ Classroom Practices in Elementary School Math: Math 71SL ▪ Classroom Practices in Middle School Math: Math 72SL 	<p>Complete courses required for your chosen mathematics major.</p> <p>Complete prerequisites to Math 105 sequence (these are also required for verifying Subject Matter Competence for the CA credential and most math majors):</p> <ul style="list-style-type: none"> ▪ Linear Algebra: Math 115A ▪ Algebra 110A or 117 ▪ Geometry: Math 120A or 123 ▪ Analysis: 131A <p>Take and pass CBEST (Required for CA credential and to enroll in CA credential Program)</p> <p>Complete Ed Psych course toward CA credential:</p> <ul style="list-style-type: none"> ▪ Educational Psychology: Ed 127 <p>Complete Observation & Participation course toward CA credential:</p> <ul style="list-style-type: none"> ▪ Classroom Practices in Secondary Mathematics: Math 103ABC <p>Attend networking and professional events including:</p> <ul style="list-style-type: none"> - Alumni Reunion Strand of the Curtis Center Mathematics and Teaching Conference 	<p>Complete capstone course requirement for verifying Subject Matter Competence and Math Methods course toward CA credential:</p> <ul style="list-style-type: none"> ▪ Mathematics and Pedagogy for Teaching Secondary Mathematics Math 105ABC <p>Attend credential program information meeting and apply to local credential program such as UCLA's TEP, CSUDH, CSUN, CSULA, etc.</p> <p>Attend networking and professional events including:</p> <ul style="list-style-type: none"> - Alumni Reunion Strand of the Curtis Center Mathematics and Teaching Conference - CMC South annual fall conference in Palm Springs <ul style="list-style-type: none"> ▪ Have Undergraduate Office provide letter verifying completion of the coursework necessary to earn subject matter competence for the CA Single Subject Credential in Mathematics <p>Complete other upper division subject matter program requirements (many of these are also required for your math major):</p> <ul style="list-style-type: none"> ▪ Probability/Statistics: 1 from Mathematics 170A or Statistics 100A or Statistics 110A or Statistics 110B: ▪ Applied Math: 1 from Math 142, 151A, 164, 167 ▪ 3 Math electives from: Math 61, 106-199, Statistics 100B-120B 	<p>Receive B.S. in Math as well as Subject Matter Competence and partial completion of coursework toward the CA Single Subject Cred. in Math</p>
				<p>Enter CA credential program with credit for credential coursework, depending upon articulation agreement with chosen institution.</p>

*CA credential applicants can verify Subject Matter Competence for the CA credential by completing the coursework listed on p. 10. Students completing the Mathematics for Teaching major automatically complete the coursework for verifying Subject Matter Competence for the CA Single Subject Teaching Credential in Mathematics.

UCLA CalTeach - Math for Non-Mathematics Majors

Freshman	Sophomore	Junior	Senior	Post Baccalaureate
<p>Complete lower division preparation for your chosen major.</p> <p>Complete</p> <ul style="list-style-type: none"> ▪ Calculus: Math 31A, 31B, 32A, 32B, 33A, 33B ▪ Physics 6A (or equivalent) <p>Complete course to meet U.S. Constitution requirement for CA Credential:</p> <ul style="list-style-type: none"> ▪ 1 from Hist 13A/B/C, Hist 7A/B, Hist 151A/B, Pol Sci 1, Pol Sci 172A/B, Pol Sci 40 <p>Complete Observation & Participation courses toward CA credential:</p> <ul style="list-style-type: none"> ▪ Classroom Practices in Elementary School Math: Math 71SL ▪ Classroom Practices in Middle School Math: Math 72SL 	<p>Complete courses required for your chosen major.</p> <p>Complete prerequisites to Math 105 sequence:</p> <ul style="list-style-type: none"> ▪ Linear Algebra: Math 115A ▪ Algebra 110A or 117 ▪ Geometry: Math 120A or 123 ▪ Analysis: 131A <p>Take and pass CBEST (Required for CA credential and to enroll in CA credential Program)</p> <p>Complete Ed Psych course toward CA credential:</p> <ul style="list-style-type: none"> ▪ Educational Psychology: Ed 127 <p>Complete Observation & Participation course toward CA credential:</p> <ul style="list-style-type: none"> ▪ Classroom Practices in Secondary Mathematics: Math 103ABC 	<p>Complete Math Methods course toward CA credential:</p> <ul style="list-style-type: none"> ▪ Mathematics and Pedagogy for Teaching Secondary Mathematics Math 105ABC <p>Attend credential program information meeting and apply to local credential program such as UCLA's TEP, CSUDH, CSUN, CSULA, etc.</p> <p>Attend networking and professional events including:</p> <ul style="list-style-type: none"> - Alumni Reunion Strand of the Curtis Center Mathematics and Teaching Conference - CMC South annual fall conference in Palm Springs <ul style="list-style-type: none"> ▪ Take and pass CSET exam to earn Subject Matter Competence for the CA Single Subject Credential in Mathematics 	<p>Receive Bachelor's degree as well as subject matter competence and partial completion of coursework toward the CA Single Subject Cred. in Math</p>	<p>Enter CA credential program with credit for credential coursework, depending upon articulation agreement with chosen institution.</p>

UCLA CalTeach-Math Freshman Year

Program Description:

- **Pedagogical Content Preparation: The Math 71SL Seminar**
Students in the freshman program take Math 71SL, Classroom Practices in Elementary School Mathematics, a 2 unit seminar course designed to expose students to current issues in elementary mathematics education. Students will learn pedagogical strategies for teaching elementary mathematics and examine the elementary mathematics curriculum from a pedagogical perspective.
- **Field Experience: Observations in an Elementary School**
Students in Math 71SL observe mathematics teaching in a local elementary school, and they keep field notes of their observations and discuss them in the Math 71SL seminar.
- **Content Preparation: The lower division calculus sequence**
Students in the freshman program complete Math 31AB (or their equivalent) by the end of their freshman year to prepare them to meet the subject matter competence requirement for the California Single Subject Teaching Credential in Mathematics and to meet the prerequisites for Math 72SL.
- **Financial Incentives:**
Students who enroll in Math 71SL may receive a scholarship, depending on funding availability.

UCLA CalTeach-Math Sophomore Year

Program Description:

- **Pedagogical Content Preparation: The Math 72SL Seminar**
Students in the sophomore program take Math 72SL, Classroom Practices in Middle School Mathematics. Math 72SL is a 2 unit seminar course designed to expose students to current issues in middle school mathematics education. Students learn pedagogical strategies for teaching middle school mathematics and examine the middle school mathematics curriculum from a pedagogical perspective. Students also complete readings of relevant mathematics education research.
- **Field Experience: Observations in a Middle School**
Students in Math 72SL observe mathematics teaching in a local middle school. Students will keep field notes of their observations and discuss them in the Math 72SL seminar.
- **Content Preparation: The lower division calculus sequence**
Students in the sophomore program complete Math 32A and 33AB (or their equivalent) by the end of their sophomore year to prepare them to meet the subject matter competence requirement for the California Single Subject Teaching Credential in Mathematics and to meet the prerequisites for Math 103ABC. Students in the sophomore year program are also encouraged to complete Math 115A.
- **California Credential Requirement: The U.S. Constitution requirement**
Students in the sophomore program complete one course from Hist 13A/B/C, Hist 7A/B, Hist 151A/B, Pol Sci 1, Pol Sci 172A/B, Pol Sci 40 to satisfy the US Constitution requirement of the CA teaching credential.
- **Financial Incentives:**
Students who enroll in Math 72SL may receive a scholarship, depending on funding availability.

Note: Math 72SL has pre-requisites of Math 31AB (or their equivalents).

UCLA CalTeach-Math Junior Year

Program Description:

- **Pedagogical Content Preparation: The Math 103ABC Seminar**
Students in the junior year program take Math 103ABC, Observation and Participation: Mathematics Instruction. Each quarter of the Math 103 sequence is a 2 unit seminar course designed to expose students to current issues in secondary mathematics education.
- **Field Experience: Observations in Middle and High Schools**
Students in Math 103 observe mathematics teaching in a variety of local middle and high schools. During fall quarter, observations will focus on instruction and the teacher. In winter quarter, observations will focus on learning and the student. In spring quarter, observations will focus on assessment. Students will keep field notes of their observations and discuss them in the Math 103 seminar.
- **Content Preparation: The upper division core sequence**
Students in the junior year program complete a core sequence of upper division mathematics courses: Math 115A, Math 110A or 117, Math 120A or 123, and Math 131A (or their equivalent). These courses are to be completed by the end of their junior year to prepare them to meet the subject matter competence requirement for the California Single Subject Teaching Credential in Mathematics and to meet the prerequisites for Math 105ABC.
- **Pedagogical Preparation: Learning Theory**
Students in the junior year program complete Ed 407 and Educational Psychology, in the spring quarter of their junior year. Ed 407 is designed to give students a deep understanding of how children learn to prepare future teachers to create classroom communities which maximize opportunities for all students to learn. The course is designed to help future teachers: (1) articulate cognitive and socio-cultural theories of learning, (2) analyze practices and scenarios using both theories, and (3) apply some model practices which embody these theories.
- **California Credential Requirement: The California Basic Educational Skills Test**
Students in the junior year program take and pass the California Basic Educational Skills Test by the end of their junior year to satisfy the Basic Skills requirement of the CA teaching credential. UCLA CalTeach-Math will pay the related exam fees.
- **Financial Incentives:**
Students who enroll in Math 103ABC may receive a scholarship, depending on funding availability.

Note: Math 103 has pre-requisites of Math 31AB, Math 32A and Math 33AB (or their equivalents.)

UCLA CalTeach-Math Senior Year

Program Description:

- **Pedagogical Content Preparation: The Math 105ABC Capstone/Methods Course**
Students in the senior program take Math 105ABC, Mathematics and Pedagogy for Teaching Secondary Mathematics. Each quarter of the Math 105 sequence is a 4-unit course designed to connect undergraduate mathematics coursework to the secondary mathematics curriculum, examine the secondary mathematics curriculum from a pedagogical perspective, and to develop students' knowledge of pedagogical strategies for teaching secondary school mathematics.
- **Field Experience: Observations in Middle and High Schools**
Students in the senior program observe mathematics teaching in a variety of local middle and high schools. These observations will be connected to assignments in the Math105ABC course sequence. The assignments will include a paper connecting the state and national standards for the teaching of mathematics to practice, a student interview assignment, and a lesson planning and teaching assignment. Students will keep field notes of their observations.
- **Content Preparation: Verifying Subject Matter Competency**
To verify student's subject matter competence for the California Single Subject Teaching Credential in Mathematics:
Mathematics majors in the senior year program complete the Department's CA-approved Subject Matter Program. These students will obtain a letter from the Undergraduate Counselor (6356 MS) verifying their completion of the program requirements (see p10).

Non-math majors in the senior year program can take and pass the California Subject Examination for Teachers (CSET) in mathematics. UCLA CalTeach-Math will pay the related exam fee for these students to take one sitting of the CSET.
- **California Credential Requirement: Apply to a be accepted to a CA credential program**
Students in the senior program attend an informational meeting, attended by several local credential programs. Students should subsequently apply to and be accepted by a CA credential program by the end of their senior year.
- **Financial Incentives:**
Students who enroll in Math 105ABC may receive a scholarship, depending on funding availability.

Note: Math 105ABC has pre-requisites: Math 117 or 110A, Math 123 or 120A, and Math 131A (or equivalent). If you do not meet these pre-requisites, please feel free to discuss your situation with the course instructors.

Verifying Subject Matter Competence for the CA Single Subject Teaching Credential in Mathematics

Applicants for a California Preliminary Single Subject Teaching Credential in Mathematics must verify their “subject matter competence” to teach mathematics in one of two ways: 1) complete a CA-approved “subject matter program” and obtain verification of completion from a university with an approved program* or 2) achieve a passing score on the three part California Subject Matter Examination for Teachers (CSET).

The UCLA Mathematics Department is one of three UC campuses with a CA-approved subject matter program in mathematics. The courses comprising the program are listed below. Students who complete all four years of the UCLA CalTeach-Math and/or the Mathematics for Teaching major will automatically complete the department’s CA-approved subject matter program. At the end of their senior year, students may request a letter from the Mathematics Department’s Undergraduate Office (6356 MS) verifying their completion of these courses and thus their subject matter competence for the CA Single Subject Teaching Credential in Mathematics.

22 courses:

Mathematics 31A	Calculus and Analytic Geometry
Mathematics 31B	Calculus and Analytic Geometry
Mathematics 32A	Calculus of Several Variables
Mathematics 32B	Calculus of Several Variables
Mathematics 33A	Linear Algebra & Applications
Mathematics 33B	Differential Equations
Mathematics 61	Discrete Structures
PIC 10A	Introduction to Programming
Math 105A	Mathematics and Pedagogy for Teaching Secondary Mathematics
Math 105B	Mathematics and Pedagogy for Teaching Secondary Mathematics
Math 105C	Mathematics and Pedagogy for Teaching Secondary Mathematics
Mathematics 106	History of Mathematics
Mathematics 117 or 110A	Algebra
Mathematics 115A	Linear Algebra
Mathematics 123 or 120A	Geometry
Mathematics 131A	Analysis
Mathematics 170A or Stats 100A	Probability
Stats 100B	Statistics

1 from Mathematics 131B-136

1 from Mathematics 142-167

1 from Physics 1A or 6A

1 from Chemistry 20AB, Physics 1BC, Physics 6BC, or PIC 10B-97

Pre-requisites for and enrolling in Math 105ABC: Math 105ABC pre-requisites are: Math 110A or 117, Math 123 or 120A, and Math 131A (or equivalent). If you do not meet these pre-requisites, please feel free to discuss your situation with the course instructors. If you have difficulty enrolling into Math 105ABC, please see the Undergraduate Office (6356 MS) for a PTE number.

***Disclaimer:** In order to receive a 100% CSET waiver from UCLA, students must have "C-" or better in the following courses and an upper division GPA of 2.0 or higher: Mathematics 131A, Mathematics 123 or Mathematics 120A, Mathematics 117 or Mathematics 110A, Mathematics 105A, Mathematics 105B, and Mathematics 105C.

UCLA Mathematics for Teaching Major

The Mathematics for Teaching major is designed for students planning to teach mathematics at a secondary school. The major focuses on providing a substantial foundation for potential teacher leaders. It provides broad exposure to mathematical knowledge for teaching, and it also provides an introduction to an array of professional issues in mathematics teaching. The major includes student observation components and a portfolio component. Special attention will be paid to students in the major to insure that they satisfy the mathematics subject matter competency requirements for the California Single Subject Mathematics Teaching Credential.

Preparation for the Major (11 Courses):

	Quarter	Grade		Quarter	Grade
Math 31A	_____	_____	Two additional courses from: Chemistry 20AB, Physics 1BC, Physics 6BC, PIC 10B – 97	_____	_____
Math 31B	_____	_____		_____	_____
Math 32A	_____	_____		_____	_____
Math 32B	_____	_____		_____	_____
Math 33A	_____	_____		_____	_____
Math 33B	_____	_____		_____	_____
Math 61	_____	_____		_____	_____
PIC 10A	_____	_____		_____	_____
Physics 1A or 6A	_____	_____		_____	_____

The Major (13 Courses):

	Quarter	Grade
Math 115A	_____	_____
Math 105A	_____	_____
Math 105B	_____	_____
Math 105C	_____	_____
Math 106	_____	_____
Math 110A or 117	_____	_____
Math 120A or 123	_____	_____
Math 131A	_____	_____
Math 170A or Stats 100A	_____	_____
Stats 100B	_____	_____

One course chosen from Mathematics 131B - 136: Analysis

Math _____ _____ _____

One course chosen from Mathematics 142 - 167: Applied Mathematics

Math _____ _____ _____

One course from Math 110B – 191H or Stats 100C

Math _____ _____ _____

Pre-requisites for and enrolling in Math 105ABC: Math 105ABC pre-requisites are: Math 110A or 117, Math 123 or 120A, and Math 131A (or equivalent). If you do not meet these pre-requisites, please feel free to discuss your situation with the course instructors. If you have difficulty enrolling into Math 105ABC, please see the Undergraduate Office (6356 MS) for a PTE number.

Note: Students who complete the UCLA Mathematics for Teaching Major automatically complete the department’s CA-approved “subject matter program” in mathematics, verifying their “subject matter competence” for the CA Single Subject Teaching Credential in Mathematics. See p. 10 for more information.

UCLA Minor in Mathematics for Teaching

The Mathematics for Teaching minor is designed for students majoring in fields other than mathematics who plan to teach secondary mathematics after graduation. The minor includes the coursework prerequisite to the Department's Joint Mathematics Education Program with the Graduate School of Education & Information Studies (GSE&IS). The minor provides additional upper division coursework in mathematics relevant to the secondary school curriculum: algebra, geometry, and analysis. This coursework also prepares students for content on the California Subject Examination for Teachers, which is required to prove competence in the subject matter (http://www.ctcexams.nesinc.com/PDF/CSET_Prep/CS_110teststructure.pdf). In addition, the minor provides the coursework on secondary mathematics from an advanced standpoint which is recommended by the Conference Board of Mathematical Sciences.

Though certain lower (Math 31A, Math 31B, Math 32A, Math 32B) and upper (Math 115A) division math courses are not required for the minor, please be aware of any upper division mathematics courses for which those prerequisites are enforced/required.

Students planning to complete the minor in mathematics must petition to add this minor to their major after completing 12.0 units of mathematics towards the minor, where one is an upper division course, at UCLA. Students who have added the minor and choose to graduate before completing the minor must officially drop the minor by filing a petition. Petitions should be filed in the Student Services Office, MS 6356.

Students must complete all lower division courses with grades of C or better. Upper division courses must have an overall grade-point average of 2.0 or better that is calculated separately from the lower division courses.

Required for the minor (8 courses): can declare after completing 12.0 units of mathematics and one upper division course at UCLA

	Quarter Grade	
Math 33A	_____	_____
Math 33B	_____	_____

Six upper division mathematics courses with "C-'s" or higher and a minimum 2.0 upper division GPA

	Quarter Grade	
Math 110A or 117	_____	_____
Math 120A or 123	_____	_____
Math 131A	_____	_____
Math 105A	_____	_____
Math 105B	_____	_____
Math 105C	_____	_____

Note: This minor is not open to any math major.

UCLA JOINT MATHEMATICS EDUCATION PROGRAM FOR UCLA CALTEACH - MATH SENIORS

Students in the senior year of the UCLA CalTeach-Math program, may also participate in the UCLA Joint Mathematics Education Program (JMEP). JMEP was initiated in 1986 by the Department of Mathematics and the Teacher Education Program (TEP) in the Graduate School of Education as a response to the shortage of well trained mathematics teachers in middle and high schools. The program seeks to recruit high quality senior mathematics majors who are interested in teaching secondary mathematics, teach these students the content and pedagogical knowledge necessary for providing high quality mathematics instruction in local urban schools, and provide students with a foundation for future teacher leadership. The program enables students to earn a California Preliminary Single Subject (Mathematics) Teaching Credential* and a Master of Education degree by the end of the academic year immediately following completion of their bachelor's degree. The program also enables students to earn a full time salary (about \$40,000) while teaching full time in Los Angeles urban schools during the academic year immediately following their bachelor's degree.

The TEP is guided by its mission statement to provide high-quality pre-service education and to radically improve urban schooling for California's racially, culturally, and linguistically diverse children. It prepares teachers to have the commitment, capacity, and resilience to promote social justice, caring, and instructional equity in low-income, urban schools.

The Senior (Novice) Year

In the senior year of the program students complete mathematics and education coursework focused on mathematics and pedagogical knowledge for the teaching of secondary mathematics. This coursework is taken concurrently in the mathematics department and the Graduate School of Education's Teacher Education Program. One of the education courses requires that students observe and participate five hours a week in mathematics classes in urban schools. Upon completion of the Mathematics degree, students who meet the UCLA Graduate School of Education & Information Studies admissions requirements may submit an application for graduate status and continue the Mathematics/Education Program.

Summer after the Bachelor's

In the summer between the Senior and Graduate Year, students complete coursework and a teaching performance assessment that completes the requirements toward a Preliminary California Single Subject Teaching Credential. The coursework includes a student teaching assignment in an urban school in a TEP Partnership District (e.g. Centinela Valley, Lynwood, Lennox, parts of Los Angeles Unified).

The Graduate (Resident) Year

In the graduate year of the program, students secure jobs as full-time mathematics teachers in urban schools in a TEP Partnership District. Students complete additional coursework toward completion of the Master's degree in Education. In addition to completing final program course work, students are required to prepare a Resident Inquiry. The portfolio is based on master's and credential coursework and residency year teaching experiences and is reviewed and presented in spring quarter of this year. During this year, students are paid a beginning teacher's salary (often around \$45,000) with benefits by the school at which they are employed.

***Note:** *In the State of California, a school district recommends teachers for their Professional Clear Credential to the Commission on Teacher Credentialing after successful completion of a district induction program (called BTSA, "Beginning Teacher Support and Assessment").*

UCLA JOINT MATHEMATICS EDUCATION PROGRAM FOR UCLA CALTEACH - MATH SENIORS

Highlights of the Program

- **Social Justice Agenda**
TEP is committed to developing highly qualified teachers who are caring advocates for children, who possess subject matter knowledge and pedagogical skill, and who take social and political action to press for justice in urban school communities.
- **Cohort Model**
Students in the program are grouped into one cohort which meets regularly throughout the two years. Interaction with other students in the cohort, the cohort's TEP Faculty Advisor, and other program faculty provide strong support as students are introduced to and transition into a career in secondary mathematics teaching. Students are asked to secure their Graduate year teaching positions in pairs, which provides for a like-minded colleague at the school site as well. In fact, several TEP Partnership Schools now have several of our graduates in their mathematics departments. These groups of teachers are often instrumental in making important changes which impact the school wide mathematics program.
- **Retention**
By June of 2006, the program had placed well over one hundred and fifty mathematics majors in Los Angeles area schools - mostly inner city schools or those with substantial minority student populations. Over 80% of these students are still teaching.
- **Foundation for Teacher Leadership**
Many graduates from the program are quickly recruited for leadership roles in their departments, schools, and districts. Many have been recruited to provide departmental leadership to implement innovative programs for struggling students, to serve as department chair, and to teach Advanced Placement courses, etc. A number of program graduates now serve in leadership roles both at the school level and at the district level.

Program Prerequisites

- **GPA**
Students applying for the Joint Mathematics Education Program should have a minimum 3.0 GPA.
- **Mathematics Coursework**
Students applying for the Joint Mathematics Education Program should have completed the Math 105ABC pre-requisites: Math 110A or 117, Math 123 or 120A, and Math 131A (or equivalent). If you have difficulty enrolling into Math 105ABC, please see the Undergraduate Office (6356 MS) for a PTE number.

UCLA JOINT MATHEMATICS EDUCATION PROGRAM FOR UCLA CALTEACH - MATH SENIORS

TENTATIVE SCHEDULE

Year One (2017-2018) – The Senior (“Novice”) Year:			
Fall Quarter	Ed 330A Ed 405A Ed 406/Ed 130 Math 105A	Observation & Participation Teaching in Urban Schools: Exploring Communities Social Foundations & Cultural Diversity in American Education Mathematics and Pedagogy for Teaching Secondary Mathematics	3 units 3 units 3 units 4 units
	Math XXX	Required upper division mathematics course(s)	4-8 units
Winter Quarter	Ed 330A Ed 405B Ed 466 Math 105B	Observation & Participation Teaching in Urban Schools: Exploring Identities Critical Media Literacy: Teaching Youth to Critically Read and Create Media Mathematics and Pedagogy for Teaching Secondary Mathematics	3 units 3 units 4 units 4 units
	Math XXX	Required upper division mathematics course(s)	4-8 units
Spring Quarter	Ed 305 Ed 330A Ed 405C Ed 407/Ed 127 Math 105C	Health Education for Teachers Observation & Participation Teaching in Urban Schools: Exploring Family-School Connections Educational Psychology Mathematics and Pedagogy for Teaching Secondary Mathematics	2 units 3 units 2 units 3 units 4 units
	Math XXX	Required upper division mathematics course(s)	4-8 units
Earn Bachelors Degree in Mathematics/ Secure a Job for the Fall in a TEP Partnership School			
Summer Session	Ed 330B/C Ed 425 Ed 409	Student Teaching Principles of Teaching Exceptional Individuals Language, Structure, Acquisition & Development	4 units 2 units 3 units
Year Two (2017-2018) – The Graduate “Resident” Year:			
Fall Quarter	Ed 498A Ed 490A	Directed Field Experience Instructional Decision Making	8 units 4 units
Winter Quarter	Ed 498B Ed 491	Directed Field Experience Curriculum Decision Making	8 units 4 units
Spring Quarter	Ed 498C Ed 481	Directed Field Experience Knowledge & Inquiry in Classroom	8 units 4 units

UCLA JOINT MATHEMATICS EDUCATION PROGRAM FOR UCLA CALTEACH - MATH SENIORS

IMPORTANT DATES

Senior Program Applications Due: Applications available at http://curtiscenter.math.ucla.edu/content/ucla-joint-math-education-program-ucla-calteach-application	April 7, 2017
Senior Program Interviews	April 14, 2017
Senior Program Conditional Admission	April 30, 2017
Senior Program Admission (contingent upon junior coursework completion)	July 2017
Joint Mathematics/Education Program Graduate School of Education and Information Studies Orientation	September 19 – 21, 2017
Fall Classes begin:	September 22, 2017
Take CBEST*	By December 2017
Take U.S. Constitution Exam**	By December 2017
Obtain letter verifying “subject matter competency” for the CA Single Subject Teaching Credential in Mathematics from Mathematics Department Undergraduate Advisor (80% completion of the department’s CA-approved subject matter program – see p. 10 of Handbook)***	By December 2017
Apply to GSE&IS for Graduate (Resident) year of program:	December 1, 2017
Graduate (Resident) Year Admission decisions:	March 2018
Upon completion of student teaching, file for preliminary teaching credential	August 2018
Graduate (Resident) students find employment positions:	May 2018 – August 2018
School year/employment begins:	August 2018
Inquiry project for M.Ed.	Spring 2019

For notes on *, **, and *** see next page

UCLA JOINT MATHEMATICS EDUCATION PROGRAM FOR UCLA CALTEACH - MATH SENIORS

IMPORTANT EXAMS

The following exams are required for admission to the second year (Graduate or Resident year) of the Joint Mathematics-Education Program:

Dates Exam Offered	CBEST
February 4, 2017	X
April 22, 2017	X
July 8, 2017	X

*CBEST

California Basic Education Skills Test

This exam is offered bimonthly. Please sign up to take one of the administrations listed above. For further information please visit their web site at: http://www.ctcexams.nesinc.com/test_info_CBEST.asp

**U.S. Constitution - Students must pass either a college level course of at least 3 quarter units or an examination on the principles and provisions of the United States Constitution. Any one of the following UCLA undergraduate courses satisfy this requirement: Hist 13A/B/C, Hist 7A/B, Hist 151A/B, PoliSci 1, PoliSci 172A/B, PoliSci 40. Students may also satisfy this requirement by earning a passing score on an examination. UCLA Extension offers an appropriate examination. For further information regarding test dates and fees contact (310) 206-8651.

Registration bulletins for required examinations are available from the Office of Student Services, 1009 Moore Hall (310) 825-8326.

How to Apply:

Applications for the Joint Math Ed Program are posted online at

<http://curtiscenter.math.ucla.edu/content/ucla-joint-math-education-program-ucla-caltech-application>

The deadline for applications is April 7, 2017.

CONTACTS

For undergraduate math advising or general information about the UCLA Math Department's mathematics teacher preparation programs:

Connie Jung
Undergraduate Advisor
Department of Mathematics
6356 Mathematical Sciences
(310) 206-1286
connie@math.ucla.edu

For additional information about the UCLA Math Department's math teacher preparation programs:

Heather Dallas
Math Department Teacher Preparation Committee Co-Chair
Department of Mathematics
5334 Mathematical Sciences
(310) 825-4096
dallas@math.ucla.edu

For information about scheduling your CalTeach-Math Freshman or Sophomore Year field work:

Janice Daniel
Academic Coordinator
Department of Chemistry and BioChemistry
1039 Young Hall
(310) 794-2191
CaTeach@chem.ucla.edu

For information about earning a CA teaching credential and a Master's in Education at UCLA:

Yolanda Reyna
Program Coordinator, Teacher Education Program
Graduate School of Education & Information Studies
1320 Moore Hall
(310) 206-0796
reyna@gseis.ucla.edu

Jaime Park
Faculty Advisor, Teacher Education Program
Graduate School of Education & Information Studies
1320 Moore Hall
(310) 206-3911
japark@gseis.ucla.edu

For information about CA teaching credentials:

Jo Ann Isken
TEP Interim Program Director
Graduate School of Education & Information Studies
1320 Moore Hall, Center X
(310) 206-07795
isken@gseis.ucla.edu