



***Mathematics for Teaching Minor***  
***MLA Pathways***  
**Information & Four-Year Planner**





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## Mathematics for Teaching Minor

The Mathematics for Teaching minor is designed for students majoring in fields other than mathematics who plan to teach secondary mathematics after graduation. For non-majors joining the mathematics department and School of Education’s Math for LA Pathways, the minor provides recognition for completion of prerequisite coursework for the program. The minor provides additional upper division course work 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.

### The Minor (7 courses total):

|   |   |                                    |
|---|---|------------------------------------|
| <input type="checkbox"/> Math 115A        | <input type="checkbox"/> Math 120A or 123 | <input type="checkbox"/> Math 105A |
| <input type="checkbox"/> Math 110A or 117 | <input type="checkbox"/> Math 131A        | <input type="checkbox"/> Math 105B |
|   |   | <input type="checkbox"/> Math 105C |

To enter the minor, students must complete Math 115A with a C or better. The remaining courses must be completed with a C- or better. Students must maintain at least a 2.0 GPA in all courses for the minor.

## Math for LA Credential Programs:

### *Math For LA: B.S. + CA Teaching Credential*

- Work on your CA Teaching Credential during your junior and senior years.
- Earn your CA Teaching Credential upon graduation
- Begin teaching full time with a full-time salary after graduation

### *Math For LA: M.Ed + CA Teaching Credential*

- Earn your CA Teaching Credential by the summer after graduation
- Begin teaching full time with a full-time salary at the end of that summer
- Complete a Master's in Education by the following June

### Traditional Pathway:

|                                 |                                  |                                    |                                    |             |  |  |
|---------------------------------|----------------------------------|------------------------------------|------------------------------------|-------------|--|--|
| <i>Freshman Year</i><br>Math 73 | <i>Sophomore Year</i><br>Math 74 | <i>Junior Year</i><br>Math 103 ABC | <i>Senior Year</i><br>Math 105 ABC | Finish B.S. | <i>Grad School Year 1</i><br>Credential coursework | <i>Grad School Year 2</i><br>Masters' coursework |
|---------------------------------|----------------------------------|------------------------------------|------------------------------------|-------------|--|--|

### Joint Math/Ed Pathway:

|                                 |                                  |                                    |   |                                   |  |
|---------------------------------|----------------------------------|------------------------------------|---|-----------------------------------|--|
| <i>Freshman Year</i><br>Math 73 | <i>Sophomore Year</i><br>Math 74 | <i>Junior Year</i><br>Math 103 ABC | <i>Senior Year</i><br>Math 105 ABC<br>Credential Coursework | Summer Term Credential Coursework | <i>Grad School Year 1</i><br>Masters' coursework |
|---------------------------------|----------------------------------|------------------------------------|---|-----------------------------------|--|

### Integrated Pathway:

|                                 |                                  |   |   |
|---------------------------------|----------------------------------|---|---|
| <i>Freshman Year</i><br>Math 73 | <i>Sophomore Year</i><br>Math 74 | <i>Junior Year</i><br>Math 103 ABC<br>Credential Coursework | <i>Senior Year</i><br>Math 105 ABC<br>Credential Coursework |
|---------------------------------|----------------------------------|---|---|

## CA Teaching Credential Requirements

| <i>California Credential Requirement</i>   | <i>Alternative at UCLA</i>  |
|--|---|
| <p><b>Subject Matter Competence</b><br/>           Candidates for a CA Single Subject Credential in Mathematics must demonstrate “subject matter competence” by achieving a passing score on California’s three-part Subject Examination for Teachers in Mathematics (CSET) or by completing a CA-approved Subject Matter Preparation Program.</p> | <p><b>Subject Matter Preparation Program</b><br/>           The UCLA Math Department has a <a href="#">CA-approved Subject Matter Preparation Program</a> in Mathematics. Upon completion of this program, students request a letter of completion from the UCLA Mathematics Department which verifies their “Subject Matter Competence.” Note: Completing the Math for Teaching Major fulfills the requirements of the Subject Matter Preparation Program.</p> |
| <p><b>Pedagogical Competence</b><br/>           Candidates typically complete a year of coursework in a post-baccalaureate CA-approved teacher credentialing program.</p>  | <p><b>UCLA’s Math For LA</b><br/>           A fast track program to complete some or all of the coursework for a CA Secondary Teaching Credential in Mathematics as an undergraduate.</p>   |
| <p><b>Clinical Competence</b><br/>           Candidates must complete 600 hours of supervised clinical practice.</p>   | <p><b>Take and Pass:</b><br/>           Math 73SL, Math 74SL, and Math 103ABC to begin accruing these hours as soon as possible. Later, enroll in Math 105ABC and other education coursework as part of <a href="#">Math For LA</a> to complete your 600 hours.</p>   |
| <p><b>US Constitution Test</b><br/>           Test based on the United States Constitution and the California State Government</p>   | <p><b>Take and pass one class from:</b><br/>           Hist 13A/B/C – History of the US and its Colonial Origins<br/>           Hist 143A/B – Constitutional History of the United States<br/>           Pol Sci 40 – Intro to American Politics</p>  |
| <p><b>California Basic Skills Requirement</b><br/>           Obtain a <a href="#">qualifying score</a> on the CBEST, AP Exams, the SAT, the ACT, the CSU EAP Exam, or CSU Placement exams.</p>   | <p><b>None</b></p>  |
| <p><b>Fingerprinting</b><br/>           California education code requires that all individuals who seek to obtain California credentials receive fingerprint clearance from the California Department of Justice and the Federal Bureau of Investigation</p>  | <p><b>None</b></p>  |



## INTEGRATED PATHWAY

*to be completed concurrently with your undergraduate degree*

| Junior Year  |  |   |
|--|--|---|
| <input type="checkbox"/> Education 170C<br>Fall Quarter    | <input type="checkbox"/> Education 170D<br>Winter Quarter                        | <input type="checkbox"/> Education 170E<br>Spring Quarter |
| <input type="checkbox"/> Education 130/406<br>Fall Quarter | <input type="checkbox"/> Education 127/407<br>Winter Quarter or Summer Session A |   |

| Junior Summer                          |  |
|--|--|
| <input type="checkbox"/> Education 409 | <input type="checkbox"/> Education 425 |

| Senior Year   |   |   |
|---|---|---|
| <input type="checkbox"/> Math 105A<br>Fall Quarter      | <input type="checkbox"/> Math 105B<br>Winter Quarter      | <input type="checkbox"/> Math 105C<br>Spring Quarter      |
| <input type="checkbox"/> Education 330A<br>Fall Quarter | <input type="checkbox"/> Education 330B<br>Winter Quarter | <input type="checkbox"/> Education 330C<br>Spring Quarter |
| <input type="checkbox"/> Education 360A<br>Fall Quarter | <input type="checkbox"/> Education 360B<br>Winter Quarter | <input type="checkbox"/> Education 360C<br>Spring Quarter |
| <input type="checkbox"/> Education 405A<br>Fall Quarter | <input type="checkbox"/> Education 405B<br>Winter Quarter | <input type="checkbox"/> Education 405C<br>Spring Quarter |



## JOINT MATH/ED PATHWAY

*to be completed concurrently with your undergraduate degree*

### Junior Year (optional; can also be completed Senior Year)

- |  |  |
|--|--|
| <input type="checkbox"/> Education 127/407<br>Winter Quarter or Summer Session A | <input type="checkbox"/> Education 130/406<br>Fall Quarter |
|--|--|

### Senior Year (Novice)

- |   |   |   |
|---|---|---|
| <input type="checkbox"/> Math 105A<br>Fall Quarter      | <input type="checkbox"/> Math 105B<br>Winter Quarter      | <input type="checkbox"/> Math 105C<br>Spring Quarter      |
| <input type="checkbox"/> Education 330A<br>Fall Quarter | <input type="checkbox"/> Education 330B<br>Winter Quarter | <input type="checkbox"/> Education 330C<br>Spring Quarter |
| <input type="checkbox"/> Education 360A<br>Fall Quarter | <input type="checkbox"/> Education 360B<br>Winter Quarter | <input type="checkbox"/> Education 360C<br>Spring Quarter |
| <input type="checkbox"/> Education 405A<br>Fall Quarter | <input type="checkbox"/> Education 405B<br>Winter Quarter | <input type="checkbox"/> Education 405C<br>Spring Quarter |
|   |   | <input type="checkbox"/> Education 305<br>Spring Quarter  |
|   |   | <input type="checkbox"/> Education 466<br>Winter Quarter  |

### Graduate Summer

- |  |  |   |
|--|--|---|
| <input type="checkbox"/> Education 409 | <input type="checkbox"/> Education 425 | <input type="checkbox"/> Education 330C (if needed) |
|--|--|---|

### Graduate Year (Resident)

- |   |   |   |
|---|---|---|
| <input type="checkbox"/> Education 498A<br>Fall Quarter | <input type="checkbox"/> Education 498B<br>Winter Quarter | <input type="checkbox"/> Education 498C<br>Spring Quarter |
| <input type="checkbox"/> Education 490A<br>Fall Quarter | <input type="checkbox"/> Education 491<br>Winter Quarter  | <input type="checkbox"/> Education 481<br>Spring Quarter  |

## General Education Requirements

UCLA College of Letters of Sciences

To better help you plan out your courses, here is the list of the General Education Requirements for UCLA College Letters of Sciences.

|   |  |
|---|--|
| <p><i>Foundations of the Arts and Humanities</i><br/>           One course from each of the following:</p>  | <p style="text-align: right;">15 UNITS MINIMUM</p> <p><input type="checkbox"/> Literary and Cultural Analysis: _____</p> <p><input type="checkbox"/> Philosophic and Linguistic Analysis: _____</p> <p><input type="checkbox"/> Visual and Performance Arts Analysis and Practice: _____</p> |
| <p><i>Foundations of Society and Culture</i><br/>           One course from each of the following:<br/><br/>           Third course from either subgroup:</p> | <p style="text-align: right;">15 UNITS MINIMUM</p> <p><input type="checkbox"/> Historical Analysis: _____</p> <p><input type="checkbox"/> Social Analysis: _____</p> <p><input type="checkbox"/> Historical Analysis or Social Analysis: _____</p>   |
| <p><i>Foundations of Scientific Inquiry:</i><br/>           Two courses from each of the following:<br/>           (One with a laboratory)</p>                | <p style="text-align: right;">18 UNITS MINIMUM</p> <p><input type="checkbox"/> Life Sciences: _____ <input type="checkbox"/> Life Sciences w/ Lab: _____</p> <p><input type="checkbox"/> Physical Sciences: _____ <input type="checkbox"/> Physical Sciences w/ Lab: _____</p>               |
| <p><i>Writing I:</i></p>  | <p><input type="checkbox"/> Writing I Requirement: _____</p>   |
| <p><i>Writing II:</i></p>   | <p><input type="checkbox"/> Writing II Requirement: _____</p> <p>A Writing II course also approved for GE credit may be applied toward the relevant GE foundation area.</p>  |
| <p><i>Diversity:</i></p>  | <p><input type="checkbox"/> Diversity Requirement: _____</p> <p>A Diversity course also approved for GE credit may be applied toward the relevant GE foundation area.</p>  |

Note: Hist 13A/B/C, Hist 143A/B, Pol Sci 40 (courses that satisfy the U.S. Constitution requirement for the CA Teaching Credential) fulfill the Historical Analysis Requirement.



## PLANNER

This planner is designed to help students pursuing the Mathematics for Teaching minor and Math for LA Credential Pathways plan out their courses.

### Freshmen

| <i>Summer (FSP Students)</i> |       |
|------------------------------|-------|
| Course                       | Grade |
|                              |       |
|                              |       |
|                              |       |
|                              |       |
|                              |       |

| <i>Fall Quarter</i> |       |
|---------------------|-------|
| Course              | Grade |
|                     |       |
|                     |       |
|                     |       |
|                     |       |
|                     |       |

| <i>Winter Quarter</i> |       |
|-----------------------|-------|
| Course                | Grade |
|                       |       |
|                       |       |
|                       |       |
|                       |       |
|                       |       |

| <i>Spring Quarter</i> |       |
|-----------------------|-------|
| Course                | Grade |
|                       |       |
|                       |       |
|                       |       |
|                       |       |
|                       |       |

We *encourage*\* freshmen pre-math majors interested in teaching mathematics as a profession to:

- take the Math 73SL seminar
- complete Math 31A, 31B and 32A, 32B
- fulfill the U.S. Constitution requirement for the CA Teaching Credential by taking one of the following general ed courses: Hist 13A/B/C, Hist 143A/B, Pol Sci 40

\* Note: Fulfilling the list above is encouraged. If you are not able to complete it, that does not mean that you are not on track. If you have any questions, refer to the contact page to set up an appointment and discuss how to plan your courses.

**Sophomore**

| <i>Summer</i> |       |
|---------------|-------|
| Course        | Grade |
|               |       |
|               |       |
|               |       |
|               |       |
|               |       |

| <i>Fall Quarter</i> |       |
|---------------------|-------|
| Course              | Grade |
|                     |       |
|                     |       |
|                     |       |
|                     |       |
|                     |       |

| <i>Winter Quarter</i> |       |
|-----------------------|-------|
| Course                | Grade |
|                       |       |
|                       |       |
|                       |       |
|                       |       |
|                       |       |

| <i>Spring Quarter</i> |       |
|-----------------------|-------|
| Course                | Grade |
|                       |       |
|                       |       |
|                       |       |
|                       |       |
|                       |       |

We *encourage*\* sophomore pre-math majors interested in teaching mathematics as a profession to:

- take the Math 74 SL seminar
- complete Math 33A, 33B, and 115A
- complete the California Basic Skills Requirement required for a CA Teaching Credential (refer to page 5 for more information)

If you are interested in the Math For LA: Integrated Pathway, applications are due **before the Fall of the applicant's third year**. Visit the [Curtis Center website](http://curtiscenter.math.ucla.edu) for additional information and to apply to the pathway.

\* Note: Fulfilling the list above is encouraged. If you are not able to complete it, that does not mean that you are not on track. If you have any questions, refer to the contact page to set up an appointment and discuss how to plan your courses.

**Junior**

| <i>Summer</i> |       |
|---------------|-------|
| Course        | Grade |
|               |       |
|               |       |
|               |       |
|               |       |
|               |       |

| <i>Fall Quarter</i> |       |
|---------------------|-------|
| Course              | Grade |
|                     |       |
|                     |       |
|                     |       |
|                     |       |
|                     |       |

| <i>Winter Quarter</i> |       |
|-----------------------|-------|
| Course                | Grade |
|                       |       |
|                       |       |
|                       |       |
|                       |       |
|                       |       |

| <i>Spring Quarter</i> |       |
|-----------------------|-------|
| Course                | Grade |
|                       |       |
|                       |       |
|                       |       |
|                       |       |
|                       |       |

We *encourage*\* junior math majors considering teaching mathematics as a profession to:

- complete Math 103A, B, & C
- complete Math 117 or 110A, 123 or 120A, and 131A
- For students interested in the Math For LA Integrated Pathway, complete Ed 130/406, Ed 127/407, and Ed 170 C, D, & E
- Sign up for the CBEST and complete before the end of your Junior year.

If you are interested in the Math for LA: Joint Math Education Pathway, applications are due in **December of the applicant’s third year**. Visit the [Curtis Center website](#) for additional information and to apply to the pathway.

\* Note: Fulfilling the list above is encouraged. If you are not able to complete it, that does not mean that you are not on track. If you have any questions, refer to the contact page to set up an appointment and discuss how to plan your courses.

**Senior**

| <i>Summer</i> |       |
|---------------|-------|
| Course        | Grade |
|               |       |
|               |       |
|               |       |
|               |       |
|               |       |

| <i>Fall Quarter</i> |       |
|---------------------|-------|
| Course              | Grade |
|                     |       |
|                     |       |
|                     |       |
|                     |       |
|                     |       |

| <i>Winter Quarter</i> |       |
|-----------------------|-------|
| Course                | Grade |
|                       |       |
|                       |       |
|                       |       |
|                       |       |
|                       |       |

| <i>Spring Quarter</i> |       |
|-----------------------|-------|
| Course                | Grade |
|                       |       |
|                       |       |
|                       |       |
|                       |       |
|                       |       |

We *encourage*\* seniors planning to teach mathematics as a profession to:

- Sign up for the CSET and complete before the end of your senior year.

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\* Note: Fulfilling the list above is encouraged. If you are not able to complete it, that does not mean that you are not on track. If you have any questions, refer to the contact page to set up an appointment and discuss how to plan your courses.

## CONTACTS

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

**Heather Dallas**

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For academic peer counseling, general information about the UCLA Math Department's mathematics teacher preparation programs, or general questions about MLA pathways requirements and applications:

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