# Math B.S. - OPTION III: Integrated Teaching Option

(for majors from the 2025-2026 catalogue year)

Student _____ CIN_____ ADVISOR_____

| GE Requirements (Total 24 Units) | Term | Grade | Double counts as |
|---|---|---|---|
| **Subject Area 1: English Communication (9)** | | | |
| 1A English Composition Course= | | | |
| 1B Critical Thinking Course = | | | |
| 1C Oral Communication Course = | | | |
| **Subject Area 2:** Mathematical Concepts and Quantitative Reasoning **(0)** | | | |
| Fulfilled by major requirements | | | |
| **Subject Area 3: Arts and Humanities (6)** | | | |
| 3A Arts Course = | | | |
| 3B Humanities Course = | | | |
| **Subject Area 4: Social and Behavioral Sciences (6)** | | | |
| Area 4 Course = | | | |
| **Subject Area 5: Physical and Biological Sciences (0)** | | | |
| Fulfilled by major requirements | | | |
| **Subject Area 6: Ethnic Studies (3)** | | | |
| Area 6 Course = | | | |
| **Upper Division GE from Subject Area 2 or 5, 3, and 4 (0)** | | | |
| Fulfilled by major requirements | | | |
| **University Requirement (Total 3 units)**<br><br>American Institutions Course = | | | |
| **University Free Electives (Total 3 units)** | | | |

| Major Requirements (Total 90 Units) (Major Core + Major Option) | Term | Grade | Double counts as |
|---|---|---|---|
| **Lower Division Required Core Courses (32)** | | | |
| ***MATH 2110 - Calculus I (4)** | | | GE Subject Area 2 |
| MATH 2120 - Calculus II (4) | | | |
| MATH 2130 - Calculus III (3) | | | |
| MATH 2150 - Differential Equations (3) | | | |
| MATH 2450 - Foundations of Mathematics I (3) | | | |
| MATH 2550 - Introduction to Linear Algebra (3) | | | |
| MATH 2740 – Intro to Data Science and Stats (3) | | | |
| PHYS 2100 General Physics I: Mechanics (4) | | | |
| BIOL 1100 Cellular Basis of Life (5) | | | |
| **Upper Division Required Core Courses (7)** | | | |
| MATH 3450 Foundations of Mathematics II (4) | | | |
| MATH 4650 - Analysis I (3) | | | |

| Option Specific Required Courses (51 Units) | Term | Grade | Double counts as |
|---|---|---|---|
| **Option-specific Math Courses (24)** | | | |
| ***MATH 3950 - Field Experience I (3)** | | | cl, WI UD GE Subject Area 2 |
| ***MATH 3960 - Field Experience II (2)** | | | cl, WI UD GE Subject Area 2 |
| MATH 4460 - Theory of Numbers (3) | | | |
| MATH 4550 - Modern Algebra (3) | | | |
| MATH 4570 - Linear Algebra (3) | | | |
| MATH 4600 - Analytic Geometry (3) | | | |
| MATH 4740 - Theory of Probability (3) | | | |
| MATH 4901 - Capstone Course for Teachers of Mathematics (4) | | | WI |
| **Option Specific Credential Courses (27)**<br>Courses in ***italics*** can be taken before admission into credential program. | | | |
| EDCI 4000 - Transformative Teaching in Diverse Urban Classrooms (3) | | | |
| *EDSE 4301 - Supporting Academic Language Development for English Learners (3)* | | | |
| ****EDFN 4400 - Educational Foundations: Schooling in a Diverse Society (3)*** | | | UD GE Subject Area 4 and (d) |
| *EDSP 4000 - Foundations of Special Education (3)* | | | |
| *EDFN 4131 - Psychological Foundations of Education (3)* | | | |
| EDSE 4212M - Instructional Methods for Secondary School Subjects-Mathematics (3) | | | |
| ***EDSE 4502 -Understanding Academic Language Development (3)** | | | UD GE Subject Area 3 |
| EDSE 5000 - Transformative Classroom Instruction and Management (3) | | | |
| EDSE 5004 - Teaching, Culture, and Community Connections Methods (3) | | | |
| **Student Teaching (Total 10 Units)**<br>These courses are taken **post graduation**** | | | |
| EDSE 4453 Directed Teaching in Secondary Schools (7) | | | |
| EDSE 4463 Proseminar: Assessment of Teaching Performance (3) | | | |

**CREDENTIAL REQUIREMENTS:**

Students need to **apply to COE for admission into credential program** in junior year, typically during Math 3950 enrollment. The only courses that can be taken **before** credential admission are EDSE 4301, EDFN 4400, EDFN 4131, and EDSP 4000.
***Student teaching is done post graduation.*

Contact Credential Advisor **Dr. Raychaudhuri** at draycha@calstatela.edu for advice.

***DOUBLE COUNT**
**The courses shown in bold font double count for certain GE and university requirements as shown on right most column.**

**GRADUATION REQUIREMENTS**
Minimum **40** units of upper division courses AND **120** total units are required for graduation. For an extensive list of other graduation requirements, check "academic requirement" in your GET account.

**GE REQUIREMENTS:** One race/ethnicity course (re), and one civic learning course (cl), and an IHE course must be fulfilled in lower division GE blocks by freshmen.

All other requirements (One upper division Civic Learning course (*cl*), two writing intensive courses (WI), and one diversity course (*d*)) are met within the major.