

**Sample Program--- B.S. in Mathematics with
Concentration in Mathematics for Education/ Secondary Teaching Certification**

FRESHMAN	Units		Units		Units
Fall		Winter		Spring	
Math 2A	4	Math 2B	4	Math 2D	4
Physics 2	4	Physics 7C, 7LC	5	Physics 7D, 7LD	5
Gen. Ed.	4	Gen. Ed.	4	Math 8: Functions and Modeling	4
P.S. 5: Intro to Sci/Math Teaching	3	Math 13	4	Math 9	4
	15		17		17
SOPHOMORE					
Fall		Winter		Spring	
Math 3A	4	Math 3D	4	Math 161	4
P.S. 105: Middle School Sci/Math Teaching	3	Math 180A	4	Math 121A	4
Gen. Ed.	4	Chem 193- Research Methods	4	Gen. Ed.	4
	11		12		12
JUNIOR					
Fall		Winter		Spring	
Math 140A	4	Math 140B	4	Math 184, 184L	5
Math 130A	4	Math 130B	4	Math 120B	4
Educ 55: Know & Learn Sci/Math (III)	5	Math 120A	4	Math Elective	4
		Educ 143AW: Classroom Interactions I	4	Educ 148: Complex Pedagogical Design	6
	13		16		19
SENIOR					
Fall		Winter		Spring	
Math 105A/LA	5	Gen. Ed.	4	Gen. Ed.	4
Math 150	4	Educ 109: Read & Writing in Sec. Classroom	4	Gen. Ed.	4
Educ 143BW: Classroom Interactions II (I-UDW/VII)	4	Educ 158: Student Teaching in Math & Science	6	Education 158: Student Teaching in Math & Science	6
	13		14		14

Lower Division Requirements for concentration in secondary teaching credential:

- A. Math 2A-B, 2D, 3A, 3D, 8, 13

Upper Division Requirements:

- A. Math 105A-105LA, 120B, 130B, 150, 161, 180A, 184, 184L, plus one additional four-unit math course numbered 100-189.

Cal Teach Courses

- **PS 5/BS 14** Intro to Science & Math Teaching (F,W,S)-
Fieldwork
- **PS 105/BS 101** Middle School Teaching (F,W)- Fieldwork
- **Chem 193/Physics 193/BS 108** Research Methods (W)
- **LPS 60/Hist 60** Making of Modern Science (science majors only W, S, Summer)
- **Math 8** (math majors only, S, summer)
- **ED 55** Knowing and Learning (F)
- **ED 143AW** Classroom Interactions I (W, ED 55 prereq)-
Fieldwork
- **ED 148** Complex Pedagogical Design (S, ED 143AW prereq)-
Fieldwork
- **ED 143BW** Classroom Interactions II (F, ED 148 prereq)-
Fieldwork
- **ED 109** Reading & Writing in Sec. Classroom (W, ED 148
prereq)
- **ED 158** Student Teaching I (W, ED 109 coreq, ED 143BW
prereq)- Fieldwork
- **ED 158** Student Teaching II (S, ED 158 I prereq)- Fieldwork