

## Preliminary Single Subject Credential Program

(Authorization to teach up to five years in a high school or middle school mathematics classroom)

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### Subject Matter Competency Program in Mathematics (59-60 units)

- Can be taken at any time before initial student teaching (EHD155A), allow at least 2 years.
- GPA: at least 2.67 overall GPA or at least 2.75 in last 60 units.
- Passing **ALL** three parts of the CSET Exam (I, II, III.) waive this program. Passing CSET scores must be used toward an internship or preliminary credential within five years of the test date.

### Core Courses 38 units

### Prerequisites

4	Math 75	Calculus I	(precalculus)
4	Math 76	Calculus II	(75)
4	Math 101	Statistical Methods	(70 or 71 or 75)
3	Math 111	Transition to Advanced mathematics	(76)
4	Math 116	Theory of Numbers	(111)
4	Math 143	History of Mathematics	(72 or 75)
4	Math 149	Capstone Mathematics for Teachers	(151,161,171) – 161 or 171 can be taken concurrently
4	Math 151	Abstract Algebra	(111)
4	Math 152	Linear Algebra	(77)
3	Math 161	Principles of Geometry	(111)

AND

### Breadth courses 21-22 units

4	Math 77	Calculus III	(76)
3	Math 145	Problem Solving	(111, EHD50 concurrent)
4	Math 171	Analysis I	(111)
4	CSCI 40	Introduction to programming	(5)
3	Physics4A	Elementary Physics	(75, 76)

AND ONE of the following\*:

3	Math 81	Applied Analysis	(77)
3	Math 114	Discrete Structures	(111)
3	Math 128	Applied Complex Analysis	(77)
3	Math 165	Differential Geometry	(77 and 111)
4	Math 172	Intermediate Mathematical Analysis II	(77 and 171)
3	Math 181	Differential Equations	(81)

\* Math majors should choose Math 81 to fulfill the major requirement.

Above information is subject to change. For updates and additional program information, please contact one of the following Credential Advisors at the Mathematics Department:

Dr. Agnes Tuska (559) 278-2512 <a href="mailto:agnest@csufresno.edu">agnest@csufresno.edu</a> PB 351	Dr. Rajee Amarasinghe (559) 278-2992 <a href="mailto:ramarasi@csufresno.edu">ramarasi@csufresno.edu</a> PB 332	Dr. Lance Burger (559) 278-4906 <a href="mailto:lburger@csufresno.edu">lburger@csufresno.edu</a> PB 338
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## Preliminary Single Subject Credential Program -Two Semester Schedule

Phase	Units	Course	Course Name	co-requisites
Pre-requisites	0 -3	EHD 50 or equivalent*	Pre-Program Field Experience	
	3	CI 149	Research-Based Planning & Instruct.	

Phase 1	3	CI 151	Social Context of Teaching	
	3	CI 152	Educational Psychology	
	3	LEE 156	Content Area Literacy and Communication in Sec. Classrooms	CI 155A, 154A
	3	CI 161 or SPED 158	Methods & Materials in Sec. Teach./ Diff. Instruction in Inclusive Settings	
	4	EHD 155A	Student Teach. In Secondary Schools	LEE 156, CI 154A
	1	EHD 154A	Initial Student Teaching Seminar	LEE 156, CI 155A

Phase 2	3	CI 161 or SPED 158	Methods & Materials in Sec. Teach./ Diff. Instruction in Inclusive Settings	
	3	LEE 157	Teaching English Learners in Sec. Classrooms	
	10	EHD 155B	Student Teach. in Secondary School	
	1	EHD 154B	Final Student Teaching Seminar	

## Preliminary Single Subject Credential Program Three Semester Schedule

Phase	Units	Course	Course Name	
Pre-requisites	0 -3	EHD 50 or equivalent*	Pre-Program Field Experience	
	3	CI 149 <i>Can be co-requisite with Phase 1</i>	Research-Based Planning & Instruct.	

Phase 1	3	CI 151	Social Context of Teaching	
	3	CI 152	Educational Psychology	

Phase 2	3	LEE 156	Content Area Literacy and Communication in Sec. Classrooms	CI 155A, 154A
	3	LEE 157	Teaching English Learners in Sec. Classrooms	
	3	CI 161 or SPED 158	Methods & Materials in Sec. Teach./ Diff. Instruction in Inclusive Settings	
	4	EHD 155A	Student Teach. In Secondary Schools	LEE 156, CI 154A
	1	EHD 154A	Initial Student Teaching Seminar	LEE 156, CI 155A

Phase 3	3	CI 161 or SPED 158	Methods & Materials in Sec. Teach./ Diff. Instruction in Inclusive Settings	
	10	EHD 155B	Student Teach. in Secondary School	
	1	EHD 154B	Final Student Teaching Seminar	

- EHD 50 Equivalent -May be met by an approved waiver (application at website)
- Must register for LEE 156 and EHD 154A along with EHD 155A
- Grade Requirement: Professional preparation courses (EHD, CI, LEE, SPED or equivalent) except those only offered for CR/NC, must be taken for a letter grade and a 3.00 GPA must be maintained.
- Courses must be completed with no grade lower than a "C."
- Professional preparation courses must be completed no more than ten (10) years prior to credential application (not program application).
- Must have received a "C" or better in the U.S. Constitution course to meet the US constitution requirement.

All requirements are subject to change.