Mathematics Major with Education Concentration

B.S. in Mathematics-Education Concentration - Curriculum Map 2017-2018 Catalog

It is recommended that students completing this concentration also major in Secondary Teacher Licensure.

Freshman			
Fall	**Cr.**	**Spring**	**Cr.**
ED 104 Foundations of Education	3	EN 102 Composition and Literature II	3
EN 101 Composition and Literature I	3	General Education Lab Science	4
General Education Lab Science	4	MA 122 Calculus II (General Education Math)[c1]	4
MA 121 Calculus I (General Education Math)[c1]	4	MA 241 Mathematical Computation and Modeling	3
PY 211 Introduction to Psychology	3	PY 220 Developmental Psychology	3
Semester Total Credits	17	Semester Total Credits	17
Sophomore			
Fall	**Cr.**	**Spring**	**Cr.**
ED 234 Learning and Teaching Strategies	4	EN 202 World Literature II	3
EN 201 World Literature I (General Education Literature)	3	MA 224 Differential Equations[c1]	4
MA 223 Calculus III[c2]	4	MA 310 Linear Algebra[c2]	3
MA 306 Discrete Mathematics[c2]	3	PS 212 University Physics II	4
PS 211 University Physics I	4	ED 315 Special Needs Child	3
Semester Total Credits	18	Semester Total Credits	17
Junior			
Fall	**Cr.**	**Spring**	**Cr.**
General Education History[1]	3	ED 363 Reading and Writing in the Content Area	4
MA 303 Advanced Calculus I or 309[2, c2]	3	General Education Arts & Humanities	3
MA 311 Statistical Methodology[c2]	3	Mathematics Elective	3
Mathematics Elective	3	MA 304 Advanced Calculus II or 312[3]	3
PY 324 Adolescent Psychology	3-4	MA 250 Communication in Mathematics	1
MA 361 Teaching Mathematics at the Secondary Level (OR Mathematics Elective)	3	PY 352 Learning and Memory	4
		SO 214 Racial and Cultural Minorities	3
Semester Total Credits	18-19	Semester Total Credits	21
Senior			
Fall	**Cr.**	**Spring**	**Cr.**
ED 368 Curriculum & Methods in Secondary Subjects	4	ED 425 Student Teaching	12
General Education Ethics	3		
MA 309 Algebraic Structures or 303[2, c2]	3		
MA 411 Senior Seminars (General Education Capstone)[c2]	3		
MA 361 Teaching Mathematics at the Secondary Level (OR Mathematics Elective)	3		
Semester Total Credits	16	Semester Total Credits	12
Total Credits For This Major: 136-137			

[1]   This may be any history course except HI 209.

[2]   MA 303 and MA 309 alternate as fall semester courses; both courses are required. For years these courses are offered, see Course Descriptions.

[3]   MA 304 and MA 312 alternate as spring semester courses; one of the two courses is required.

[c1]   Grade of C or higher required in 3 of the 4 courses.

[c2]   Grade of C or higher in at least 6 Math courses at the 300/400 level (other than MA 360).