Degree: B.A. in Mathematics
Freshman 4-Year Academic Roadmap

Year 1: Freshman Year						Year Total				28 to 30
Fall	**Term(s)**	**Pre-req**	**Pre-req Course(s)**	**Units**		**Spring**	**Term(s)**	**Pre-req**	**Pre-req Course(s)**	**Units**
MATH 2210 (GE B4)	Fall & Spring	☑	Math 1401 or satisfactory score on department placement exam	4		MATH 2220	Fall & Spring	☑	C-or better in MATH 2210	4
CSE 1100 (GE A3), 1250, or 2010*	Fall & Spring	☐		3 or 4		MATH 2310	Fall & Spring	☑	C-or better in MATH 2210 and MATH 2220 as a pre- or co-requisite	4
GE (E)	Fall & Spring	☐		3		GE (A1)	Fall & Spring	☐		3
GE (B1 or B2 with B3)	Fall & Spring	☐		4 or 5		GE (A2)	Fall & Spring	☐		3
		☐						☐		
			Semester Total	14 to 16					**Semester Total**	14

Year 2: Sophomore Year						Year Total				29
Fall	**Term(s)**	**Pre-req**	**Pre-req Course(s)**	**Units**		**Spring**	**Term(s)**	**Pre-req**	**Pre-req Course(s)**	**Units**
MATH 2320	Fall & Spring	☑	C-or better in MATH 2220 and 2310	4		MATH 2270	Fall & Spring	☑	MATH 2310	3
MATH 3100 (WI)	Fall & Spring	☑	C- or better in MATH 2220	4		MATH 3329	Fall & Spring	☑	MATH 2310 as a pre-req. or co-req. and MATH 3100	3
GE (C1)	Fall & Spring	☐		3		GE (B1 or B2 w/o lab)	Fall & Spring	☐		3
GE (C2)	Fall & Spring	☐		3		GE (C2)	Fall & Spring	☐		3
		☐				GE (D1)	Fall & Spring	☐		3
			Semester Total	14					**Semester Total**	15

Year 3: Junior Year						Year Total				32
Fall	**Term(s)**	**Pre-req**	**Pre-req Course(s)**	**Units**		**Spring**	**Term(s)**	**Pre-req**	**Pre-req Course(s)**	**Units**
MATH 4600	Fall & Spring	☑	MATH 2320 and MATH 3100	4		MATH 4300	Fall & Spring	☑	MATH 2320 and MATH 3100	4
MATH Elective	Fall & Spring	☐		3		MATH Elective	Fall & Spring	☐		3
GE (D2)		☐		3		GE (C2)	Fall & Spring	☐		3
Free Elective		☐		3		Free Elective	Fall & Spring	☐		3
Free Elective		☐		3		Free Elective	Fall & Spring	☐		3
			Semester Total	16					**Semester Total**	16

Year 4: Senior Year						Year Total				30
Fall	**Term(s)**	**Pre-req**	**Pre-req Course(s)**	**Units**		**Spring**	**Term(s)**	**Pre-req**	**Pre-req Course(s)**	**Units**
MATH Elective	Fall & Spring	☐		3		MATH Elective	Fall & Spring	☐		3
MATH Elective	Fall & Spring	☐		3		GE (D4)	Fall & Spring	☐		3
GE (D3)	Fall & Spring	☐		3		GE (B5)	Fall & Spring	☐		3
Free Elective	Fall & Spring	☐		3		Free Elective	Fall & Spring	☐		3
Free Elective	Fall & Spring	☐		3		Free Elective	Fall & Spring	☐		3
			Semester Total	15					**Semester Total**	15
*Course may be offered in summer						**Degree Units Total**				120

*Note: If a student takes CSE 1250 or CSE 2100 to satisfy the computer science requirement of the degree, then the student will still need to take a GE A3 course.

**Note: Depending on course choices, the student may need to take another free elective course to total 120 units for graduation.

Degree: B.A. in Mathematics
Transfer 2-Year Academic Roadmap

☐   ☐

Year 3: Junior Year						Year Total				30
Fall	Term(s)	Pre-req	Pre-req Course(s)	Units		Spring	Term(s)	Pre-req	Pre-req Course(s)	Units
MATH 3100 (WI)	Fall & Spring	☑	C- or better in MATH 2220	4		MATH 3329	Fall & Spring	☑	MATH 2310 as pre-req. or co-req. and MATH 3100	3
MATH 2270	Fall & Spring	☑	MATH 2310	3		MATH 4600	Fall & Spring	☑	MATH 2320 and MATH 3100	4
CSE 1100, 1250, or 2010	Fall & Spring	☐		3 or 4		GE (B5)	Fall & Spring	☐		3
GE (C1 or C2 upper division)	Fall & Spring	☐		3		GE (D4)	Fall & Spring	☐		3
Free Elective	Fall & Spring	☐		1 or 2		Free Elective	Fall & Spring	☐		2
			Semester Total	15					Semester Total	15

Year 4: Senior Year						Year Total				30
Fall	Term(s)	Pre-req	Pre-req Course(s)	Units		Spring	Term(s)	Pre-req	Pre-req Course(s)	Units
MATH 4300	Fall & Spring	☑	MATH 2320 and MATH 3100	4		MATH Elective	Fall & Spring	☐		3
MATH Elective	Fall & Spring	☐		3		MATH Elective	Fall & Spring	☐		3
MATH Elective	Fall & Spring	☐		3		MATH Elective	Fall & Spring	☐		3
Free Elective	Fall & Spring	☐		5		Free Electives	Fall & Spring	☐		6
		☐						☐		
			Semester Total	15					Semester Total	15
*Course may be offered in summer									Degree Units Total	60

Degree: B.S. in Mathematics-General Mathematics Concentration
Freshman 4-Year Academic Roadmap

Year 1: Freshman Year — Year Total: 29 to 30

Fall	Term(s)	Pre-req	Pre-req Course(s)	Units	Spring	Term(s)	Pre-req	Pre-req Course(s)	Units
MATH 2210 (GE B4)	Fall & Spring	☑	Math 1401 or satisfactory score on department placement exam	4	MATH 2220	Fall & Spring	☑	C-or better in MATH 2210	4
CSE 1100 (GE A3), 1250, or 2010*	Fall & Spring	☐		3 or 4	MATH 2310	Fall & Spring	☑	C-or better in MATH 2210 and MATH 2220 as a pre- or co-requisite	4
2000-level science (B1 or B2 with B3; or D3)	Fall & Spring	☐		3 to 5	GE (A1)	Fall & Spring	☐		3
GE (E)	Fall & Spring	☐		3	GE (A2)	Fall & Spring	☐		3
		☐			Free Elective	Fall & Spring	☐		1
Semester Total				14 to 15	**Semester Total**				15

Year 2: Sophomore Year — Year Total: 30

Fall	Term(s)	Pre-req	Pre-req Course(s)	Units	Spring	Term(s)	Pre-req	Pre-req Course(s)	Units
MATH 2320	Fall & Spring	☑	C-or better in MATH 2220 and 2310	4	MATH 2270	Fall & Spring	☑	MATH 2310	3
MATH 3100 (WI)	Fall & Spring	☑	C-or better in MATH 2220	4	MATH 3329	Fall & Spring	☑	MATH 3100 and MATH 2310 as pre-req or co-req	3
GE (B1 or B2 w/o lab)	Fall & Spring	☐		3	GE (B1 or B2 with B3; or D3)	Fall & Spring	☐		3 to 4
GE (C1)	Fall & Spring	☐		3	GE (C2)	Fall & Spring	☐		3
Free Elective		☐		1	Free Elective	Fall & Spring	☐		2 to 3
Semester Total				15	**Semester Total**				15

Year 3: Junior Year — Year Total: 30

Fall	Term(s)	Pre-req	Pre-req Course(s)	Units	Spring	Term(s)	Pre-req	Pre-req Course(s)	Units
MATH 4600	Fall & Spring	☑	MATH 2320 and MATH 3100	4	MATH 5600	Spring	☑	C- or better in MATH 4600	3
MATH Elective	Fall & Spring	☐		3	MATH Elective	Fall & Spring	☐		3
MATH Elective	Fall & Spring	☐		3	GE (C2)	Fall & Spring	☐		3
GE (C2)	Fall & Spring	☐		3	GE (D1)	Fall & Spring	☐		3
Free Elective	Fall & Spring	☐		2	Free Elective	Fall & Spring	☐		3
Semester Total				15	**Semester Total**				15

Year 4: Senior Year — Year Total: 30 to 31

Fall	Term(s)	Pre-req	Pre-req Course(s)	Units	Spring	Term(s)	Pre-req	Pre-req Course(s)	Units
MATH 4300	Fall & Spring	☑	MATH 2320 and MATH 3100	4	MATH 5300	Spring	☑	C- or better in MATH 4300	4
MATH Elective	Fall & Spring	☐		3	MATH Elective	Fall & Spring	☐		3
GE (D2)	Fall & Spring	☐		3	GE (B5)	Fall & Spring	☐		3
GE (D4)	Fall & Spring	☐		3	Free Electives	Fall & Spring	☐		5
Free Electives	Fall & Spring	☐		2 to 3			☐		
Semester Total				15 to 16	**Semester Total**				15
					Degree Units Total				120

*Course may be offered in summer

*Note: If a student takes CSE 1250 or CSE 2100 to satisfy the computer science requirement of the degree, then the student will still need to take a GE A3 course.

Degree: B.S. in Mathematics-Applied Mathematics Concentration
Freshman 4-Year Academic Roadmap

Year 1: Freshman Year									Year Total	15
Fall	Term(s)	Pre-req	Pre-req Course(s)	Units	Spring	Term(s)	Pre-req	Pre-req Course(s)		Units
MATH 2210 (GE B4)	Fall & Spring	☑	Math 1401 or satisfactory score on department placement exam	4	MATH 2220	Fall & Spring	☑	C-or better in MATH 2210		4
CSE 1100 (GE A3), 1250, or 2010*	Fall & Spring	☐		3 or 4	MATH 2310	Fall & Spring	☑	C-or better in MATH 2210 and MATH 2220 as a pre- or co-requisite		4
2000 level science course that counts towards math concentration**	Fall & Spring	☐		3 to 5	2000 level science course that counts towards math concentration**	Fall & Spring	☐			3 to 5
GE (E)	Fall & Spring	☐		3	GE (A1)	Fall & Spring	☐			3
Free Elective		☐		0 to 2	Free Elective	Fall & Spring	☐			0 to 1
Semester Total				15	Semester Total					

Year 2: Sophomore Year									Year Total	29
Fall	Term(s)	Pre-req	Pre-req Course(s)	Units	Spring	Term(s)	Pre-req	Pre-req Course(s)		Units
MATH 2320	Fall & Spring	☑	C-or better in MATH 2220 and 2310	4	MATH 2270	Fall & Spring	☑	MATH 2310		3
MATH 3100 (WI)	Fall & Spring	☑	C-or better in MATH 2220	4	MATH 5310	Spring	☑	MATH 2310 and MATH 3100		3
GE (A2)	Fall & Spring	☐		3	GE (B1 or B2 with B3; or D3)	Fall & Spring	☐			3 to 5
GE (C1)	Fall & Spring	☐		3	GE (C2)	Fall & Spring	☐			3
		☐			Free Elective	Fall & Spring	☐			1 to 3
Semester Total				14	Semester Total					15

Year 3: Junior Year									Year Total	31
Fall	Term(s)	Pre-req	Pre-req Course(s)	Units	Spring	Term(s)	Pre-req	Pre-req Course(s)		Units
MATH 4600	Fall & Spring	☑	MATH 2320 and MATH 3100	4	MATH 4300	Fall & Spring	☑	MATH 2320 and MATH 3100		4
MATH 3329	Fall & Spring	☑	MATH 3100 and MATH 2310 as pre-req or co-req	3	MATH Elective	Fall & Spring	☐			3
GE (C2)	Fall & Spring	☐		3	MATH Elective	Fall & Spring	☐			3
GE (D1)	Fall & Spring	☐		3	GE (C2)	Fall & Spring	☐			3
Free Elective	Fall & Spring	☐		2	Free Elective	Fall & Spring	☐			3
Semester Total				15	Semester Total					16

Year 4: Senior Year									Year Total	30
Fall	Term(s)	Pre-req	Pre-req Course(s)	Units	Spring	Term(s)	Pre-req	Pre-req Course(s)		Units
MATH Elective	Fall & Spring	☐		3	MATH Elective	Fall & Spring	☐			3
MATH Elective	Fall & Spring	☐		3	MATH Elective	Fall & Spring	☐			3
GE (D2)	Fall & Spring	☐		3	GE (B5)	Fall & Spring	☐			3
GE (D4)	Fall & Spring	☐		3	Free Elective	Fall & Spring	☐			6
Free Elective	Fall & Spring	☐		3			☐			
Semester Total				15	Semester Total					15
*Course may be offered in summer						Degree Units Total				120

*Note: If a student takes CSE 1250 or CSE 2100 to satisfy the computer science requirement of the degree, then the student will still need to take a GE A3 course.
**2000-level science courses may be counted towards GE B1 or B2 with B3; or D3

Degree: B.S. in Mathematics-Teaching Mathematics Concentration
Freshman 4-Year Academic Roadmap

Year 1: Freshman Year					Year Total					30
Fall	**Term(s)**	**Pre-req**	**Pre-req Course(s)**	**Units**	**Spring**	**Term(s)**	**Pre-req**	**Pre-req Course(s)**	**Units**
MATH 2210 (GE B4)	Fall & Spring	☑	Math 1401 or satisfactory score on department placement exam	4	MATH 2220	Fall & Spring	☑	C-or better in MATH 2210	4
MATH 2265	Fall & Spring	☑	MATH 2210 as pre-req or co-req	3	MATH 2310	Fall & Spring	☑	C-or better in MATH 2210 and MATH 2220 as a pre- or co-requisite	4
GE (E)	Fall & Spring	☐		3	GE (A1)	Fall & Spring	☐		3
GE (B1 or B2 with B3)	Fall & Spring	☐		4 to 5	GE (B1 or B2 w/o lab)	Fall & Spring	☐		3 to 4
Free Elective	Fall & Spring	☐		0 to 1	Free Elective	Fall & Spring	☐		1
			Semester Total	15				**Semester Total**	15

Year 2: Sophomore Year					Year Total					30
Fall	**Term(s)**	**Pre-req**	**Pre-req Course(s)**	**Units**	**Spring**	**Term(s)**	**Pre-req**	**Pre-req Course(s)**	**Units**
MATH 2320	Fall & Spring	☑	C-or better in MATH 2220 and 2310	4	MATH 3100	Fall & Spring	☑	C- or better in MATH 2220	4
MATH 2900	Fall & Spring	☑	Equivalent to MATH 1401	4	MATH 3460	Fall & Spring	☑	MATH 2320	3
GE (A2)	Fall & Spring	☐		3	GE (C1)	Fall & Spring	☐		3
GE (A3)	Fall & Spring	☐		3	GE (C2)	Fall & Spring	☐		3
Free Elective	Fall & Spring	☐		1	Free Elective	Fall & Spring	☐		2
			Semester Total	15				**Semester Total**	15

Year 3: Junior Year					Year Total					29
Fall	**Term(s)**	**Pre-req**	**Pre-req Course(s)**	**Units**	**Spring**	**Term(s)**	**Pre-req**	**Pre-req Course(s)**	**Units**
MATH 3329	Fall & Spring	☑	MATH 2310 as pre-req or co-req and MATH 3100	3	MATH 4300	Fall & Spring	☑	MATH 2320 and MATH 3100	4
MATH 3480	Fall & Spring	☑	C- or better in MATH 2220	3	MATH 4900	Fall & Spring	☑	C or better in MATH 2900 and MATH 3329	4
Math Elective	Fall & Spring	☐		3	GE (C2)	Fall & Spring	☐		3
GE (C2)	Fall & Spring	☐		3	GE (D1)	Fall & Spring			3
Free Elective	Fall & Spring	☐		3			☐		
			Semester Total	15				**Semester Total**	14

Year 4: Senior Year					Year Total					31
Fall	**Term(s)**	**Pre-req**	**Pre-req Course(s)**	**Units**	**Spring**	**Term(s)**	**Pre-req**	**Pre-req Course(s)**	**Units**
MATH 3345	Fall & Spring	☑	MATH 3100	3	MATH 5900	Fall & Spring	☑	Senior status, MATH 4900, and C or better in MATH 4300 and MATH 4600	3
MATH 4600	Fall & Spring	☑	MATH 2329 and MATH 3100	4	MATH Elective	Fall & Spring	☐		3
GE (D2)	Fall & Spring	☐		3	GE (D3)	Fall & Spring	☐		3
GE (D4)	Fall & Spring	☐		3	GE (B5)	Fall & Spring	☐		3
Free Elective	Fall & Spring	☐		3	Free Elective	Fall & Spring	☐		3
			Semester Total	16				**Semester Total**	15
*Course may be offered in summer								**Degree Units Total**	120

Degree: B.S. in Mathematics - Teaching Mathematics Concentration
Transfer 2-Year Academic Roadmap

Year 3: Junior Year						Spring	Term(s)	Pre-req	Pre-req Course(s)	Year Total	29 to 30
Fall	Term(s)	Pre-req	Pre-req Course(s)	Units		Spring	Term(s)	Pre-req	Pre-req Course(s)		Units
MATH 2265	Fall & Spring	☑	MATH 2210 as pre-req or co-req	3		MATH 3329	Fall & Spring	☑	MATH 2310 as pre-req. or co-req. and MATH 3100		3
MATH 2900	Fall & Spring	☑	Equivalent to MATH 1401	4		MATH 3345	Fall & Spring	☑	MATH 3100		3
MATH 3100 (WI)	Fall & Spring	☑	C- or better in MATH 2220	4		MATH 3460	Fall & Spring	☑	MATH 2320		3
CSE 1100, 1250, or 2010	Fall & Spring	☐		3 to 4		GE (C1 or C2 upper division)	Fall & Spring	☐			3
		☐				GE (D4)	Fall & Spring	☐			3
		Semester Total		14 to 15				Semester Total			15

Year 4: Senior Year						Spring	Term(s)	Pre-req	Pre-req Course(s)	Year Total	30 to 31
Fall	Term(s)	Pre-req	Pre-req Course(s)	Units		Spring	Term(s)	Pre-req	Pre-req Course(s)		Units
MATH 3480	Fall & Spring	☑	C- or better in MATH 2220	3		MATH 4600	Fall & Spring	☑	MATH 2320 and MATH 3100		4
MATH 4300	Fall & Spring	☑	MATH 2320 and MATH 3100	4		MATH 5900	Fall & Spring	☑	Senior status, MATH 4900, and C or better in MATH 4300 and MATH 4600		3
MATH 4900	Fall & Spring	☑	C or better in MATH 2900 and MATH 3329	4		MATH Elective	Fall & Spring	☐			3
GE (B5)	Fall & Spring	☐		3		MATH Elective	Fall & Spring	☐			3
Free elective	Fall & Spring	☐		1 to 2		Free elective	Fall & Spring	☐			2
		Semester Total		15 to 16				Semester Total			15
***Course may be offered in summer**								Degree Units Total			60

General Education Courses

GE Category		Courses	Designation
A1	Oral Communication		University Foundations
A2	Written Communication		University Foundations
A3	Critical Thinking		University Foundations
B1	Physical Science		Disciplinary Perspectives
B2	Life Science		Disciplinary Perspectives
B3	Lab Activity		Disciplinary Perspectives
B4	Mathematics		University Foundations
B5	Upper Division Scientific Inquiry		Disciplinary Perspectives
C1*	Arts		Disciplinary Perspectives
C2*	Literature		Disciplinary Perspectives
C2*	Philosophy		Disciplinary Perspectives
C2*	World Languages or Literature in Translation		Disciplinary Perspectives
	*one choice must be upper-division		
D1^	U.S. History		University Foundations
D2^	American Government		University Foundations
D3^	Social Sciences Discipline Perspectives		Disciplinary Perspectives
D4^	Upper Division Social Science		Disciplinary Perspectives
	^at least 2 disciplines must be represented in D, including choices in US History & Government		
E	Foundation Seminar		University Foundations

(WI)	**Writing Intensive**	**At least 2 courses reqd, one UD**
(DI)	**Diversity and Inclusiveness Perspectives**	**At least 1 course required**
(G)	**Global Perspectives**	**At least 1 course required**