

Road Map B.S. in Mathematics: Applied Mathematics option

YEAR 1: FALL			YEAR 1: SPRING		
COURSE	UNITS	PREREQ	COURSE	UNITS	PREREQ
MATH 75 (LD GE B4) ⁰	4	CRT/ALEKS PPL	MATH 76	4	MATH 75/(75A & B)
CSCI 40	4	MATH 75 (Conc. OK)	CSCI 41	4	CSCI 40
LD GE A1	3		PHYS 4A/4AL (B1/B3) ⁰	4	MATH 76 (Conc. OK)
LD GE A3	3		LD GE E	3	
TOTAL UNITS	14	(9 GE)	TOTAL UNITS	15	(7 GE)

YEAR 2: FALL			YEAR 2: SPRING		
COURSE	UNITS	PREREQ	COURSE	UNITS	PREREQ
MATH 77	4	MATH 76	MATH 81	3	MATH 77
MATH 111	4	MATH 76	MATH Elective ²	3	See table below
MATH 107 (Fall only) or 101	3/4	MATH 77 (Conc. OK)	LD GE B2	3	
LD GE A2	3		LD GE C1	3	
			HIST 11 or 12 (D1)	3	
TOTAL UNITS	14/15	(3 GE)	TOTAL UNITS	15	(9 GE)

YEAR 3: FALL			YEAR 3: SPRING		
COURSE	UNITS	PREREQ	COURSE	UNITS	PREREQ
MATH 152 ¹	4	MATH 77	MATH 151/171 ¹	4	MATH 111
MATH Elective ²	3	See table below	MATH 191T (in Applied Mathematics)	1	MATH 111 and at least two of MATH 109, 121, 122, 123, 152, 181, and 182 or permission.
LD GE C2	3		MATH ² or Free Elective	3	
LD GE C1/C2	3		LD GE D3	3	
PL SI 2 (D2)	3		Free Elective	4	
TOTAL UNITS	16	(9 GE)	TOTAL UNITS	15	(3 GE)

YEAR 4: FALL			YEAR 4: SPRING		
COURSE	UNITS	PREREQ	COURSE	UNITS	PREREQ
MATH 171/151 ¹	4	MATH 111	MATH Elective ²	3	See table below
MATH 198	3	MATH 151,152,171 (or permission)	UD GE IB	3	
Free or MATH Elective ²	3	See table below	UD GE IC	3	
UD GE ID ⁰	3		Free Elective	3	
UD MI ⁰	3		Free Elective	3	
TOTAL UNITS	16	(6 GE)	TOTAL UNITS	15	(6 GE)

⁰3 units of MATH 75 (or MATH 75A) also will satisfy the G.E. Foundation B4 requirement.

⁰PHYS 4AL is not required for this option in the math major. If students wish to include PHYS 4A as a General Education Breadth course, they must also take PHYS 4AL.

⁰Consider taking ANTH 105W (UD MI) or ANTH 116W (UD GE ID) to satisfy your upper division Writing Skills Requirements.

¹ It is suggested to take MATH 81 before taking MATH 152.

¹ It is suggested to take MATH 152 before taking MATH 151.

¹ It is suggested to take MATH 128 before taking MATH 171.

² The following table summarizes the MATH ELECTIVES of the APPLIED MATH option. Choose four courses from the following list. You must also take MATH 191T and MATH 198.

Course Number	Course Title	Prereq	Semester
MATH 109	Applied Probability	MATH 107	Spring only
MATH 121	Numerical Analysis I	MATH 77 and CSCI 40	Spring only
MATH 122	Numerical Analysis II	MATH 121 and 152	Fall only
MATH 123	Mathematical Modeling	MATH 77	Spring only (odd)
MATH 128	Applied Complex Analysis	MATH 77	Fall only
MATH 181	Differential Equations	MATH 81	Fall only
MATH 182	Partial Differential Equations	MATH 81	Spring only

Advising note: Students should meet with their academic advisor every semester.