

Mathematics Major (B.S.)
Applied Math Concentration

Note: Sequence of courses may be altered with advisor's approval.

First Year**Fall:**

Credits	Course	Description
3	MATH 121	Calculus I
4	CPSC 121	Intro to Programming
3	ENGL 103	Writing For Discipline
3	HIST 100/200	History elective
3	EPPS*	EPPS elective
0	CORE 103	Fall CES
0	MATH 192	Math Seminar
16	Total Credits	

Spring:

Credits	Course	Description
3	MATH 122	Calculus II
3	MATH 130	Discrete
3	ENGL 104	Intro to Literature
3	RLST 105	Franciscan Goals
3	CORE 113	First Year Seminar
0	CORE 104	Spring CES
15	Total Credits	

Second Year**Fall:**

3	MATH 221	Calculus III
3	MATH 322	Linear Algebra
4	PHYS 121	Physics I
3	EPPS*	EPPS elective
3	PHIL 205	Reason & Resp.
0	MATH 292	Math Seminar
0	CORE 211	Wellness
16	Total Credits	

Spring:

3	MATH 222	Calculus IV
3	MATH 306	Differential Equations
4	PHYS 122	Physics II
3	GETM I **	Thematic minor
3	elective	Elective
0	CORE 212	Wellness
16	Total Credits	

Third Year**Fall:**

3	MATH 401 or 407	Analysis or Algebra
3	MATH 304	Probability
3-4	COLL***	Collateral elective
3	GETM II **	Thematic minor
3	elective	elective
0	EXAM 301	Writ. Comp Exam
0	MATH 392	Math Seminar
15-16	Total Credits	

Spring:

3	Math 309	Math. Modeling
4	MATH 212	Approx. Meth. I
3	GETM III **	Thematic minor
3	GETM IV**	Thematic minor
3	elective	elective
16	Total Credits	

Fourth Year**Fall:**

3	MATH 401 or 407	Analysis or Algebra
4	MATH 312	Approx. Meth. II
3-4	COLL***	Collateral elective
3	elective	elective
3	elective	elective
1	MATH 492	Math Seminar
17-18	Total Credits	

Spring:

1	Math 412	Scientific Computing
3-4	COLL***	Collateral elective
3	Fine Arts elective	Fine Arts elective
3	Lang 102 or Higher	Language
3	elective	elective
3	CORE 407	Keystone Seminar
16-17	Total Credits	

42 major credits; 21-24 collateral credits; 45 additional general education credits; 18 elective credits; Minimum 128 credits

* EPPS – Econ101, PLSC102/103, PSYC101 or SOC 100-200 level

**GETM – General Education Thematic Minor; If using major/collateral course for GETM category, replace with free elective.

***Collateral Elective - ENGR 301, ENVE 311, 312, and 313, Computer Science 122 and above, Physics 214 and above, Chemistry 101, 102, 201 and above, Biology 111 and above, Bioinformatics 250 and above, or others upon approval.