Suggested Four-Year Plan of Study
MATHEMATICS

FITCHBURG STATE UNIVERSITY

Applied Mathematics

FRESHMAN YEAR

Fall Semester — ***16 Credits***

MATH 1300 or 2300	Precalculus or Calculus I	(4)
ENGL 1100	Writing I	(3)
	Course in Minor	(3)
	LA&S Elective	(3)
	Free Elective	(3)

Spring Semester — ***15 Credits***

MATH 1850	Freshman Seminar in Mathematics	(1)
MATH 2300 **AND** LA&S **OR**	Calculus I **AND** LA&S Elective **OR**	
MATH 2400 **AND** MATH 2550	Calculus II **AND** Symbolic Computational Mathematics	(7)
PHYS 2600 **OR** PHYS 2300	Calculus Based Physics I **OR** General Physics I	(4)
ENGL 1200	Writing II	(3)

SOPHOMORE YEAR

Fall Semester — ***17 Credits***

MATH 2400 **OR** MATH 3350	Calculus II **OR** Multivariate Calculus	(4)
MATH 2600	Linear Algebra	(3)
PHYS 2700 **OR** 2400 **OR** MATH 3003	Calculus Based Physics II **OR** General Physics II **OR** Advanced Statistics	(4)
	LA&S Elective	(3)
	Free Elective	(3)

Spring Semester — ***15-16 Credits***

MATH 3550 **OR** MATH XXXX	Multivariate Calculus **OR** Math Elective*	(3-4)
MATH 2550 **OR** MATH XXXX	Symbolic Computational Mathematics **OR** Math Elective*	(3)
MATH 3500 **OR** MATH 3550	Methods of Applied Mathematics **OR** Differential Equations	(3)
CSC 1500	Computer Science I	(3)
	Course in Minor	(3)

JUNIOR YEAR

Fall Semester — ***15 Credits***

MATH 2500	Introduction to Mathematical Thought	(3)
MATH 4400 **OR** MATH 4450	Operations Research **OR** Mathematical Modeling	(3)
	Course in Minor	(3)
	LA&S Elective	(3)
	Free Electives	(3)

Spring Semester — ***15 Credits***

SPCH 1000 **OR** SPCH 1100	Introduction to Speech Communication **OR** Argumentation and Debate	(3)
MATH 3500 **OR** MATH 3550	Methods of Applied Mathematics **OR** Differential Equations	(3)
	Course in Minor	(3)
	Course in Minor	(3)
	Free Elective	(3)

SENIOR YEAR

Fall Semester — ***15 Credits***

MATH 4600	Senior Seminar in Applied Mathematics	(3)
MATH xxxx	Math Elective*	(3)
	Course in Minor	(3)
	LA&S Elective	(3)
	Free Elective	(3)

Spring Semester — ***12 Credits***

MATH xxxx	Math Elective*	(3)
	Course in Minor	(3)
	Free Elective	(3)
	Free Elective	(3)

**Three Math Electives, two of which must be at or above the 3000 level.*

LA&S Elective List

1 AOM attribute (Art or Music)
1 CTW attribute (Citizenship & The World)
3 credits HAF attribute (Health/Fitness)
1 HIST subject (History)
1 HMN attribute (Human Behavior)
1 LIT attribute (Literature)

Advanced LA&S Options Area

Choose Option B: 12 credits (with a minimum of 6 credits at the 2000 level or above). This will be covered by your required minor.

Foreign language proficiency at the intermediate level required for Bachelor of Arts candidates.

Global Diversity Area

Two courses taken must meet the Global Diversity requirement: GDAN course + (GDC or GDCN course) **OR** *GDCN course + (GDA or GDAN course). These courses are allowed to satisfy this requirement and another requirement at the same time.*

Completion of 120 credits required for graduation.

Rev. 09-2020

160 Pearl Street, Fitchburg, MA 01420 ■ Phone: 978-665-3144 ■ Fax: 978-665-4540 ■ admissions@fitchburgstate.edu ■ www.fitchburgstate.edu