The **Minor in Mathematics** is designed to enable a student with a significant interest in Mathematics to deepen their knowledge while pursuing a major in another field. While the major will often be in a field which makes significant use of mathematics, such as a science or a quantitative social science, it may be in any area of study. Students from outside LS&A, for example those from the College of Engineering, may also pursue a Minor in Mathematics. LS&A regulations allow Advanced Placement credits and prerequisites for the major to count also as prerequisites for the minor. For students enrolled in LS&A, only one course may be shared between the requirements of a minor and the requirements of a major. This rule does not apply to students enrolled outside of LS&A. Courses used to meet the requirements of a minor may not be taken pass/fail. **All courses for the minor program must be completed with a grade of at least a C-.**

A student must select at least 5 courses consisting of at least 1 basic course and at least 2 upper-level courses.

I. Prerequisites** (2 courses)   {must be completed with C- or better}

Instructions	Course(s)	Student Elections (enter your course selections here)
Select **one** of the following **pairs** of **introductory mathematics courses:**	Math 115 & 116 Math 175 & 176 Math 185 & 186 Math 295 & 296 Math 156	**1.** _____ **2.** _____

** The prerequisite to a Minor in Mathematics is one of the sequences Math 115-116, 175-176, 185-186, or 295-296; or Math 156. These all provide a thorough grounding in the calculus of functions of one variable.
Advanced Placement credits in Math 120 and 121 also fulfill the prerequisite requirement.

II. Basic Courses** (1-3 courses)   {must be completed with C- or better}

Instructions	Course(s)	Student Elections (enter your course selections here)
You may choose **one** of the following **Multivariable Calculus** courses:	Math 215 Math 285	**1.** _____
You may choose **one** of the following **Linear Algebra** courses:	Math 214 Math 217 Math 417 Math 419	**2*.** _____
You may choose **one** of the following **Differential Equations** courses:	Math 216 Math 286	**3*.** _____

No more than 3 total courses may be elected from the Basic Courses. Students may elect only one course from each available area (e.g. a student **can elect both 215 & 217 but **may not elect** both 217 & 417). Engineering students are encouraged to include a linear algebra course in their minor selections.

III.   *Upper Level Courses** (2-4 courses)*   *{must be completed with C- or better}*

Instructions	Course(s)				Student Elections (enter your course selections here)
You may choose **two to four** of the following courses:	Analysis/ Diff. Equations	Math 316 Math 351 Math 354	Math 404 Math 450	Math 451 Math 452	Math 454 Math 555	*1.* _____
	Algebra/ Number Theory	Math 312 Math 389 Math 412	Math 420 Math 471 Math 475	Math 493 Math 494 Math 561	Math 571 Math 575	*2.* _____
	Geometry/ Topology	Math 431 Math 433	Math 490			*3*.* _____
	Applied Mathematics	Math 354 Math 371 Math 404 Math 423	Math 425 Math 450 Math 454 Math 462	Math 463 Math 471 Math 472 Math 550	Math 561 Math 563 Math 571	*4*.* _____
	Discrete Mathematics	Math 310 Math 312 Math 389 Math 403	Math 412 Math 416 Math 420 Math 425	Math 465 Math 475 Math 481 Math 493	Math 561 Math 566 Math 567 Math 582	
	Financial/ Actuarial	Math 423 Math 424	Math 520	Math 523	Math 524	

***A student may elect between 2-4 Upper level courses. The upper level courses are not restricted, such that a student may elect multiple courses from the same area (e.g. electing both Math 433 and Math 490 in the Geometry & Topology area **is** acceptable.*

*All courses carry 3 or 4 credit hours and the total number of required credit hours is between 15 and 18. **Per LSA rule, LSA students must take at least 9 credits in-residence.** All in-residence credits must be taken from the Mathematics Department.*

*In all cases, more advanced courses may be substituted with the approval of a math advisor. In particular, students who have satisfied the prerequisite with the honors sequence Math 295-296 or 217-297 will need to consult an advisor for the proper selection of courses. Other modifications can also be made with the approval of a math advisor. Finally, classes offered outside of Mathematics **cannot** be used to satisfy the requirements of the minor*