



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 that makes significant use of mathematics, such as science or 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, including at least 1 basic course and at least 2 upper-level courses.

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	Math 115 & 116			
of introductory mathematics	Math 185 & 186	1.		
courses:	Math 275 & 276			
	Math 295 & 296	2.		
	Math 156			

** 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)

1.

{must be completed with C- or better}

Instructions	Course(s)	Student Elections		
		(enter your course selections here)		
You may choose one of the following	Math 205	1		
Multivariable Calculus courses:	Math 215			
	Math 285			
You may choose one of the following	Math 214			
Linear Algebra courses:	Math 217	2*.		
	Math 417			
	Math 419			
You may choose one of the following	Math 216	3*		
Differential Equations courses:	Math 286			

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.

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

Instruction	ns	Course(s)				Student Elections
						(enter your course selections here)
You may	Analysis/	Math 316	Math 404	Math 451	Math 454	
choose	Diff.	Math 351	Math 450	Math 452	Math 555	1.
two to	Equations	Math 354				
four of	Algebra/	Math 312	Math 420	Math 493	Math 571	2.
the	Number	Math 389	Math 471	Math 494	Math 575	
following	Theory	Math 412	Math 475	Math 561		2*
courses:	Geometry/	Math 431	Math 440			· · · · · · · · · · · · · · · · · · ·
	Topology	Math 433	Math 490			4+
	Applied	Math 354	Math 425	Math 463	Math 561	4 <i>"</i> ,
	Mathematics	Math 371	Math 450	Math 471	Math 563	
		Math 404	Math 454	Math 472	Math 571	
		Math 423	Math 462	Math 550		
	Discrete	Math 310	Math 412	Math 465	Math 561	
	Mathematics	Math 312	Math 416	Math 475	Math 566	
		Math 389	Math 420	Math 481	Math 567	
		Math 403	Math 425	Math 493	Math 582	
	Financial/	Math 423	Math 520	Math 523	Math 524	
	Actuarial	Math 424				

**A student may elect between 2 and 4 upper-level courses. The upper-level courses are not restricted, so 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, 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