

MATHEMATICS MINOR

Contact

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Faculty

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Requirements

The minor in mathematics requires the completion of 21 credits with a grade point average of 2.0 or better. Students must complete the courses listed in the following three items to fulfill the 21 credit requirement.

Code	Title	Credits
Calculus		
12 credits of calculus: MAT 295, 296, 397 (MAT 284, 285, 286, are not permissible toward this requirement.)		12
3 credits in MAT 331 (recommended) or MAT 485		3
Additional Subject Areas		
Select six credits in one of the following subject areas:		6
<i>Algebra</i>		
MAT 531		
MAT 531	Second Course in Linear Algebra	
Select one of the following:		
MAT 534	Introduction to Abstract Algebra	
MAT 541	Introduction to Number Theory	
MAT 545	Introduction to Combinatorics	
<i>Analysis</i>		
Select two of the following:		
MAT 511	Advanced Calculus	
MAT 512	Introduction to Real Analysis II	
MAT 513	Introduction to Complex Analysis	
MAT 562	Elementary Topology	
<i>Applied Mathematics</i>		
Select two of the following:		
MAT 517	Partial Differential Equations and Fourier Series	
MAT 518	Fourier Series, Transforms and Wavelets	
MAT 532	Applied Linear Algebra	
MAT 581	Numerical Methods with Programming	
<i>Differential Equations</i>		
MAT 414	Introduction to Ordinary Differential Equations	
MAT 517	Partial Differential Equations and Fourier Series	
<i>Geometry</i>		
MAT 531 & MAT 551	Second Course in Linear Algebra and Fundamental Concepts of Geometry	

MAT 531 & MAT 554	Second Course in Linear Algebra and Differential Geometry
<i>Probability and Statistics</i>	
MAT 521 & MAT 525	Introduction to Probability and Mathematical Statistics
MAT 521 & MAT 526	Introduction to Probability and Introduction to Stochastic Processes
Total Credits	21

Note

A student who takes MAT 485 Differential Equations and Matrix Algebra for Engineers instead of MAT 331 First Course in Linear Algebra may not use the differential equations sequence to satisfy minor requirements.

A student who has completed the minor requirements stated above but does not have 15 credits of SU coursework toward the minor may use an additional SU course toward the minor. This additional course must be either an upper-level MAT course, or an SU course that has MAT 296 Calculus II (or a higher-numbered mathematics course) as a prerequisite.