Minor in Mathematics

A minor in the Department of Mathematics consists of completing <u>20 UNITS OF UPPER DIVISION MAT COURSES</u> (excluding MAT 192, 197TC, 198, and 199) with a 2.000 GPA or higher.

Please note that **you must also complete all prerequisite courses** for the upper division courses you plan to take. At minimum, these include MAT 21A (Calculus: Differential Calculus), 21B (Calculus: Integral Calculus), 21C (Calculus: Partial Derivatives & Series), and 22A (Linear Algebra). More may be required, depending on the upper division courses you plan to take.

Choose 20 units from the list below:

MAT Course	Units	Qtr(s) Offered	Prerequisites
108 (Intro to Abstract Math)	4	F, W, S, SSI, SSII	21B
111 (History of Math)	4	W	8 units of upper division MAT
114 (Convex Geometry)	4	W (even years)	21C and (22A or 67)
115A (Number Theory)	4	F, SSI, SSII	21B
115B (Number Theory)	4	W (odd years)	115A and (22A or 67)
116 (Differential Geometry)	4	S	21D and 22B and (22A or 67)
118A (Partial Differential Equations)	4	F	21D and 22B and (22A or 67)
118B (Partial Differential Equations)	4	W	118A
118C (Partial Differential Equations)	4	S (Not every year)	118B
119A (Ordinary Differential Equations)	4	F, W	21D and 22B and (22A or 67)
119B (Ordinary Differential Equations)	4	S	119A
124 (Mathematical Biology)	4	S (even years)	22B and (22A or 67)
127A (Real Analysis)	4	F, W, S, SSI	21C and (67 or (22A and 108))
127B (Real Analysis) or 125A	4	F, W, S, SSII	127A
127C (Real Analysis) or 125B	4	F, W, S, SSI	127B
128A (Numerical Analysis)	4	F, SSII	21C and programming course
128B (Numerical Analysis)	4	W	(22A or 67) and programming course
128C (Numerical Analysis)	4	S	(22A or 67) and 22B and programming course
129 (Fourier Analysis)	4	F	21D and (22A or 67) and 22B and (25 or 127A)
133 (Mathematical Finance)	4	S	135A and (67 or (22A and 108))
135A (Probability)	4	F, W, S, SSI	21C and ((25 or 127A)or 108)
135B (Stochastic Processes)	4	S	135A and (22A or 67)
141 (Euclidean Geometry)	4	W, S	21B and (22A or 67)
145 (Combinatorics)	4	F, W, S, SSI, SSII	21C
146 (Algebraic Combinatorics)	4	S (Not every year)	145 and (67 or (22A and 108))
147 (Topology)	4	W	25 or 127A
148 (Discrete Mathematics)	4	W	67 or (22A and 108)
150A (Modern Algebra)	4	F, W, SSI	67 or (22A and 108)
150B (Modern Algebra)	4	W	150A
150C (Modern Algebra)	4	S	150B
160 (Math for Data Analytics)	4	S	167
165 (Mathematics and Computers)	4	F (even years)	(22A or 67) and ((25 or 127A) or 108 or 114 or 115A or 145)
167 (Applied Linear Algebra)	4	F, W, SSI	22A or 67
168 (Optimization)	4	F, W	21C and (67 or (22A and 108))
180 (Special Topics)	3	F, W, S	25 or 127A and (67 or (22A and 108))
185A (Complex Analysis)	4	F, W	(125A or 127B) and (67 or (22A and 108))
185B (Complex Analysis)	4	S (odd years)	185A
189 (Advanced Problem Solving)	3	S	(25 or 127A) and (67 or (22A and 108))

Note: Quarters offered and prerequisites are subject to change.

Questions? Email studentservices@math.ucdavis.edu