B.S. IN MATHEMATICS

MAJOR CHECK SHEET beginning FALL 2024

NAME_____ **I.D.#**_____

TERM OF ENTRY_____ **NET I.D.**_____

PART I. Lower Division Math (13 units)

	Grade	Sem.	Course #	Where taken	Units	Approval
Math 130 Calculus I (f/sp)						
Math 131 Calculus II (f/sp)						
Math 230 Calculus III (f/sp)						
Math 215 Linear Algebra (f/sp)						
Math 285 Intro to Diff. Eq (f/sp)						

**Math 210 (for students on catalogs pre-Fall 2022)

PART II. Upper Division Requirements (36 units)

Upper division core (15 units - ALL)

	Grade	Sem.	Course #	Where taken	Units	Approval
Math 300 Intro to Proof (f/sp)						
Math 305 Math Software (f)						
Math 320 Abstract Algebra I (f)						
Math 330 Analysis I (sp)						
Math 493 Senior Seminar (sp)						

Upper Division Theoretical Mathematics (6 units - Choose 2):

Choose two courses from list I below

Math 321 Abstract Algebra II* (sp)						
Math 331 Analysis II (f)						
Math 340 Modern Geometry* (sp)						

Upper Division Applied Mathematics (6 units- Choose 2):

Choose two courses from list II below

Math 370 Numerical Analysis I (sp)						
Math 380 Linear Programming (f)						
Math 385 Systems of Diff. Eq* (f)						

Electives (9 units - Choose 3)

Choose three courses from the list below

Math 310 Linear Alg Theory						
Math 360 Number Theory* (f/odd)						
Math 450 Combinatorics* (f/even)						
Math 470 Numerical Analysis II						
Math 497 Topics in Adv Math						
STAT 316 Statistics and Prob for Science and Engineering*						
Any upper div math course not used to fulfill above reqs, except Math 318						

* The courses indicated by asterisks are strongly suggested for future mathematics teachers: 321, 340, 385 and either 360 or 450. These courses were designed with the 6-12 mathematics standards in mind and to meet the domain requirements for future mathematics teachers designated by the California Commission on Teacher Credentialing. These courses will help future teachers develop a deep understanding of the theoretical basis of the mathematics they will be teaching.