

Sample Course Sequence Mathematics Secondary Education Fall 2025 (PreCalculus start)

Year 1	
Fall	Spring
FYS1XX First Year Seminar (CC) ²	Second Language ³
Second Language ³	College Core (Literary, Visual, or Performing Arts)
MAT 120 PreCalculus ¹ (CC: Quantitative Reasoning)	MAT 200 Proof Writing through Discrete Mathematics
CSC 120 Foundations of Computational Thinking	MAT 127 Calculus A
MAT 099 Orientation to Mathematics major	SED 099 Secondary Ed Freshmen seminar
Year 2	
SED 224: Adolescent Learning and Development	EFN 299: Schools, Communities and Culture (CC: Behavioral/Social Cultural; Social Justice: Race & Ethnicity)
MAT 205 – Linear Algebra	SPE 322--Inclusive Practices (It is recommended that the above two courses be taken together if possible.)
MAT 128 Calculus B	MAT 229 Multivariable Calculus
STA 216 Statistical Inference and Probability (fall only)	MAT 301 Number Theory (spring only)
Year 3	
MAT 310: Real Analysis (spring only), MAT 316: Probability (Fall only), or MAT 326: Differential Equations Bio 201*, CHE 201 or PHY 201 *Fulfills state hygiene requirement	
MAT 305 Abstract Algebra (Fall only)	College Core: Historical Perspectives (<i>EFN 398 recommended</i>)
MAT 351: Geometry (Fall only)	MAT 497: Topics in Secondary Mathematics from an Advanced Viewpoint (spring only)
MTT 380: Methods of Teaching Mathematics I (Fall only)	MAT 255 Perspectives on the Development of Math (spring only) (College Core: Belief Systems)

Year 4	
MAT/STA Option ⁴	
SED 399: Pedagogy in Secondary Schools (1.5 units)	MTT 490: Clinical Practice II: Math
RAL 328: Reading in Secondary Education (.5 units)	SED 498: Collaborative Capstone for Professional Inquiry
MTT 390: Math Methods II (fall only) The above three courses constitute Clinical Practice I.	

TOTAL REQUIRED FOR GRADUATION: 31 UNITS

¹Placement based on SAT/ACT scores or placement test. See department website.

²FYS 1xx will also count as a Social Justice requirement, depending on its course number.

³If studying a foreign language not previously taken in high school, you must complete the language requirement at the 102 level or higher.

⁴MAT/STA option must be chosen from list of courses on the department website.

NOTE: The official major requirements, including retention and graduation grade requirements, can be found in the Undergraduate Bulletin and on the department website.