207. Real Variables (3)

Prerequisite or concurrently: Math 118B. Theory of sets; cardinals; ordinals; function spaces, linear spaces; measure theory; theory of modern integration and differentiation.

211. Point Set Topology (3)

Prerequisite: Math 205 or 207 (may be taken concurrently). Basic concepts of point set topology, set theory, topological spaces, continuous functions; connectivity, compactness and separation properties of spaces. Topics selected from function spaces, CW complexes, metrization, dimension theory.

215. Differential Geometry (3)

Prerequisite or concurrently: Math 119. Study of geometry in Euclidean space by means of calculus, including theory of curves and surfaces, curvature theory of surfaces, and intrinsic geometry on a surface.

221. Advanced Numerical Analysis (3)

Prerequisite: Math 121. Linear equations and matrices; parabolic, hyperbolic, and elliptic differential equations; principles of coding and programming of computers.

231. Rings and Fields (3)

Prerequisite: Math 115. Sets, groups, rings, fields, factorization, Galois theory.

232. Linear Algebra (3)

Prerequisite: Math 115. Groups with operators, modules, representation theory, ideal theory, polynomial ideals.

241. Seminar (3)

Prerequisite: two graduate courses in mathematics. Presentation of current mathematical research in field of student's interest.

290. Independent Study (1-3; max see reference)

See *Regulations and Procedures—Independent Study*.

299. Thesis (2-6; max total 6)

Prerequisite: see *Master's Degrees—Thesis Requirement*. Preparation, completion, and submission of an acceptable thesis for the master's degree.

302. Topics in Mathematics for Teachers (3; max total 6, if topic not repeated)

Prerequisite: permission of instructor. Topics in modern mathematics with special emphasis for teachers.