

OFFICIAL SYLLABUS

MATH 311 – THE TEACHING OF SECONDARY MATHEMATICS

Adopted – Fall 2010

(Committee: Drs. M. Hasty, T. Voepel, T. Graville)

Catalog Description. Constructing instructional objectives; formulating, utilizing and evaluating strategies for teaching mathematical concepts and skills; diagnosis and remediation of students' learning difficulties. Does not count toward non-teaching degree or minor in mathematics. Prerequisites: completion of mathematics core.

Textbook – *TEACHING SECONDARY SCHOOL MATHEMATICS TECHNIQUES AND ENRICHMENT UNITS*, by Possamentire & Stepelman (8th Edition)

Course Outline and Topics

- Instructional Objectives
- Teaching Strategies
- Diagnosis & Remediation
- Lesson Plans
- Unit Plans
- Moving Forces for Math Ed
- Technology in the Classroom
- Evaluation Techniques
- Problem Solving in the Classroom
- Enriching Mathematics
- Meeting the Needs of the Students
- Managing the Mathematics Classroom
- NCTM Standards*
- Illinois State Learning Standards*
- TIMSS*
- Research in Math Ed
- Using Hands-On Activities in the Classroom
- Using Projects in the Classroom

Any instructor should cover all of the material specified, additional material is optional.