Post-Baccalaureate Certification in Mathematics

Major Sequence and Requirements – Planning Guide

I. Core Mathematics Requirements (pre-requisites indicated)

- _____ **MATH 161** Calculus I
- _____ **MATH 211** Calculus II (161)
- _____ **MATH 301** History of Mathematics
- _____ **MATH 310/520**: Introduction to Proof (211)
- _____ **MATH 311** Calculus III (211)
- _____ **MATH 322/502** Linear Algebra I (311, rec. 310)
- _____ **MATH 333/503** Introduction to Probability and Statistics (311)
- _____ **MATH 345/504** Abstract Algebra (310, 322)
- _____ **MATH 353** Survey of Geometry (310, 322)
  OR
- _____ **MATH 355/505** Transformational Geometry (310, 322)
- _____ **MATH 464** Real Analysis I (310, 311, 322, rec. 345)

- _____ **CSCI 140** Discrete Structures
- _____ **CSCI 161** Intro Computing I

II. Mathematics Electives (minimum 2 courses) – select from: MATH 353*, 355*, 365, 370, 375, 393, 395, 422, 435, 445, 457, 465, 467, 471, 472, 483, 4X8, 535, 536, 566, 592 (*cannot be double-counted from Core)

Note: some courses are dual listed as graduate courses and can be taken in preparation for a masters degree

***MATH*_____**

***MATH*_____**

III. Educational Core (6 courses, generally taken as 2 blocs, plus Student Teaching)

Foundations Bloc

- _____ **EDFN 590** (or EDFN 211, 511, 603, 604)

and

- _____ **EDFN 545** (or EDFN 241, PSYC 525, 526, 625)

and

Professional Bloc

- _____ **EDSE 321** Issues in Secondary Education

and

- _____ **EDSE 340** Content Area Literacy

and

- _____ **SPED 346** Secondary Students with Disabilities

and

- _____ **MATH 405** Teaching Secondary Math (301, 322, 333, 345, 353/355)

and

Student Teaching

- _____ **EDMA 461** Student Teaching

- _____ **EDMA 471** Differentiated Instruction in the Classroom

IV. Additional Requirements

APS Requirements – see sheet upon acceptance

Content Portfolio Submissions – see department for information

Post-Baccalaureate: Timeline Planning Guide

Including a Cross Reference of Sequence and Degree Requirements

Fall-Spring-Summer: _____	Fall-Spring-Summer: _____	Fall-Spring-Summer: _____
MATH 161 (Placement), Calc 1 **COMM** 100: Speech **CSCI** 140**:** Discrete Structures	**MATH** 211 (161), Calc 2 **MATH** 301 (161), History **CSCI** 161: Programming **ENGL** Composition	**MATH** 310/520 (211), Proof **MATH** 311 (211), Calc 3 **ENGL** Lit course
Fall-Spring-Summer: _____	Fall-Spring-Summer: _____	Fall-Spring-Summer: _____
** **MATH** 322/502 (311, rec. 310), Linear Algebra ** **MATH** 333/503 (311), Probability & Statistics	Foundations Bloc: ** **EDFN** 590/211 (clearances required) ** **EDFN** 545/241 (clearances required)	** **MATH** 345/504 (310, 322), Abstract Algebra ** **MATH** 353/355/505 (310, 322), Geometry ** **MATH** Elective
Fall-Spring-Summer: _____	Fall-Spring-Summer: _____	Fall-Spring-Summer: _____
Real Analysis: **MATH 464/506 (310, 311, 322, rec. 345) ****MATH** Elective	Professional Bloc **MATH** 405* (333, 345, 353/355) **EDSE** 321* **EDSE** 340* **SPED** 346*	**EDMA** 461: Student Teaching* **EDMA** 471: Differentiated Instruction

Pre-requisites are indicated in parenthesis.
Cross-listed courses or options are indicated with multiple course numbers listed.

*denotes APS status needed – see School of Education for complete details. This includes a Communications course, an English Literature course, an English Composition course, a Minimum Overall GPA of 3.0, and all Field Experience clearances

**denotes courses that MAY double-count toward the Masters of Education in Mathematics (M.Ed.). Important note, at most 2 courses below MATH 510 can be counted toward the Masters program.