

Mathematics Degree Checklist (May 20, 2009)

Core Courses:

- _____ MTH 141 Introductory Calculus with Analytic Geometry (4 credits)
- _____ MTH 142 Intermediate Calculus with Analytic Geometry (4 credits)
- _____ MTH 215 Introduction to Linear Algebra (3 credits)
- _____ MTH 243 Calculus for Functions of Several Variables (3 credits)

Total 14 credits

BA Degree - 32 MTH Credits

Core Courses (14 credits)

- _____ MTH 316 Algebra (3 credits)

Five more MTH courses which may not include: MTH 106, 107, 108, 109, 110, 111, 208, 362, 420

- _____ MTH _____ (3 credits) *MTH 307 is strongly suggested.*
- _____ MTH _____ (3 credits)
- _____ MTH _____ (3 credits)
- _____ MTH _____ (3 credits)
- _____ MTH _____ (3 credits) - 400 level

Total 32 credits

BS Degree General Program - 44 MTH Credits

Core Courses (14 credits)

- _____ MTH 316 Algebra (3 credits)
- _____ MTH 425 Topology (3 credits)
- _____ MTH 435 Introduction to Mathematical Analysis (3 credits)
- _____ MTH 436 Introduction to Mathematical Analysis (3 credits)
- _____ MTH 462 Functions of a Complex Variable (3 credits)

Five more MTH courses which may not include: MTH 106, 107, 108, 109, 110, 111, 208, 362, 420

- _____ MTH _____ (3 credits) *MTH 307 is strongly suggested.*
- _____ MTH _____ (3 credits)
- _____ MTH _____ (3 credits)
- _____ MTH _____ (3 credits)
- _____ MTH _____ (3 credits)

BS Degree Applied Math Option - 32 MTH Credits, Plus 4 more courses

Core Courses (14 credits)

One of the following two sequences:

----- MTH 435 Introduction to Mathematical Analysis I (3 credits) AND

----- MTH 436 Introduction to Mathematical Analysis II (3 credits)

OR

----- MTH 437 Advanced Calculus and Application I (3 credits) AND

----- MTH 438 Advanced Calculus and Application I (3 credits)

Choose 9 credits from *Group I*

Any Course

----- MTH ----- (3 credits)

----- MTH ----- (3 credits)

----- MTH ----- (3 credits)

----- MTH ----- (3 credits)

Group I:

MTH 244, 316, 322, 418, 441, 447, 451, 452, 462, 471, 472

Other courses may be used with prior permission of the chairperson

Choose 1 course from: CSC 200, 201, 211, 212, PHY 410, CHE 272

Choose 3 courses from *Group II*

Group II:

CHE 272, 313, 314;

CHM 431, 432;

CSC 340, 350, 440, 445;

ECN 323, 324;

ELE 313, 314, 322, 457;

IME 412, 432, 433;

MCE 341, 354, 366, 372, 466;

PHY 306, 322, 331, 410, 420, 451;

STA 409, 412

Other courses may be used with prior permission of the chairperson

Minor in Mathematics – 20 Credits

Core Courses (14 credits)

Any two 3-credit MTH courses chosen from MTH 307, 316, 322, or any 400-level MTH course. At least one of these 2 courses must be at the 400 level.

Substitutions may be made with permission of the chairperson.