

LIBERAL STUDIES: Humanities/Social Science *(Revised February 2015)*

Mathematics Program Sequence B

Required credits: 22

Introductory Level Courses: 8 credits

MATH 01130 Calculus I (4 cr.)

MATH 01131 Calculus II (4 cr.)

Advanced Level Courses: 11 credits (additional prerequisites may be required*)

Choose 11 credits from:

MATH 01205 Tech Tools for Discovering Math (2 cr.)

MATH 01210 Linear Algebra (3 cr.)

MATH 01230 Calculus III (4 cr.)

MATH 01231 Ord. Diff. Equation (3 cr.)

MATH 01310 College Geometry (4 cr.)

MATH 01330 Introduction to Real Analysis (3 cr.)

MATH 01331 Real Analysis II (3 cr.)

MATH 01332 Numerical Analysis (3 cr.)

MATH 01340 Modern Algebra I (3 cr.)

MATH 01341 Modern Algebra II (3 cr.)

MATH 01352 Theory of Numbers (3 cr.)

MATH 01354 Introduction to Topology (3 cr.)

MATH 01386 Intro. to Partial Differential Equations (3 cr.)

MATH 01410 History of Math (3 cr.)

MATH 01430 Introduction to Complex Analysis (3 cr.)

MATH 03400 Application of Mathematics (3 cr.)

MATH 03411 Deterministic Mod. in Op. Research (3 cr.)

MATH 03412 Stochastic Mod. in Op. Research (3 cr.)

STAT 02360 Probability & Random Variables (3 cr.)

STAT 02361 Mathematical Statistics (3 cr.)

STAT 02371 Stat Design of Exp. I (3 cr.)

STAT 02372 Stat Design of Exp. II (3 cr.)

Senior Level Capstone: 3 credits

Choose one 300/400 level RU Math Department course from the list above

**Additional prerequisites, including Symbolic Logic (PHIL 09130) and Discrete Math (MATH 03150), may be required for Advanced Level Courses.*