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.