

Math BS 04-05

Requirements for the Bachelor of Science Degree in Mathematics

Lower Division Requirements		Choose one from:	Mathematics 312 ⁽²⁾ __ Mathematics 372 ⁽²⁾ __ Mathematics 412 ⁽²⁾ __	Advanced Linear Algebra Numerical & Symbolic Computation Complex Analysis	Electives (minimum 7 units)
Mathematics 164 ⁽⁴⁾ __ Mathematics 174 ⁽⁴⁾ __	Calculus I Calculus II	Choose two from:	Mathematics 334 ⁽⁴⁾ __ Mathematics 344 ⁽⁴⁾ __ Mathematics 364 ⁽⁴⁾ __	Applied Mathematics Discrete Mathematics Mathematical Statistics	MTH312 ⁽²⁾ __ MTH491 ⁽¹⁻⁴⁾ __ MTH334 ⁽⁴⁾ __ MTH492 ⁽²⁾ __
Mathematics 232 ⁽²⁾ __ Mathematics 242 ⁽²⁾ __ Mathematics 274 ⁽⁴⁾ __	Linear Algebra Number Theory With Proofs Calculus III		Mathematics 352 ⁽²⁾ __ Mathematics 424 ⁽⁴⁾ __ Mathematics 444 ⁽⁴⁾ __ Mathematics 481 ⁽¹⁾ __ Mathematics 492 ⁽²⁾ __	History of Mathematics Real Analysis I Abstract Algebra I Senior Seminar Topics in Mathematics	MTH344 ⁽⁴⁾ __ HON498 ⁽²⁾ __ MTH364 ⁽⁴⁾ __ HON499 ⁽¹⁾ __ MTH372 ⁽²⁾ __
Computer Science 142 ⁽²⁾ __ Computer Science 154 ⁽⁴⁾ __ Computer Science 252 ⁽²⁾ __ Physics 241 ⁽⁴⁾ __	Introduction to Computer Programming Fundamentals of Computer Science Data Structures with Programming University Physics I		Mathematics 432 ⁽²⁾ __ Mathematics 452 ⁽²⁾ __	Real Analysis II Abstract Algebra II	MTH402 ⁽²⁾ __ MTH412 ⁽²⁾ __ MTH432 ⁽²⁾ __ MTH452 ⁽²⁾ __ MTH463 ⁽³⁾ __ MTH471 ⁽¹⁾ __

I. Responding to the Sacred

Biblical Foundations Bible 101⁽²⁾ __ and Bible 102⁽³⁾ __

The Christian Tradition Church History 395⁽³⁾ __ or Theology 306⁽³⁾ __

II. Developing Cognitive Abilities

Personal Development Psychology 101⁽⁴⁾ (FF) __ or Psychology 103⁽³⁾ __

Critical Thinking and Communication Writing 110⁽⁵⁾ __ and Communication 100⁽³⁾ __
or Writing 120⁽³⁾ __

Basic Competence Writing Sample __ Writing 099 __

Problem Solving Mathematics 303⁽³⁾ __ or Mathematics 144⁽⁴⁾ __
Mathematics 164⁽⁴⁾ __

Basic Competence Placement Test __ Math 099 __
SAT 35th %ile __ ACT 35th %ile __

III. Exploring an Interdependent World

The Natural World Biological Science ⁽⁴⁾ __ and Physical Science ⁽⁴⁻⁵⁾ __
One with lab __

Physical Fitness and Nutrition PED (One of Physical Education 102-184)
Take one of the following: Family & Consumer Sci. 315⁽³⁾ __
Physical Education 100⁽¹⁾ __ Physical Education 300⁽²⁾ __

The Social World Take one of the following: Sociology 101⁽³⁾ __
Economics 101⁽³⁾ __ Sociology 201⁽³⁾ __
Economics 102⁽³⁾ __ Political Science 101⁽³⁾ __
Political Science 190⁽⁴⁾ __

IV. Seeking Cultural Perspectives

The History of World Civilizations History 110⁽³⁾ __ and History 111⁽³⁾ __

The Fine Arts Take **two** of the following areas: (MUH, ART, TRE)
Music History 100⁽²⁾ __ Art 100⁽²⁾ __
or Music History 101⁽²⁾ __ or Art 102⁽³⁾ __
or Music History 321⁽⁴⁾ & 322⁽⁴⁾ __ Theater 101⁽²⁾ __

Philosophy Philosophy 201⁽³⁾ __ or Philosophy 211⁽³⁾ __

Literature Masterpieces: Take two courses, at least one from masterpieces.
Literature 254⁽³⁾ __ Literature 201⁽³⁾ __
Literature 255⁽³⁾ __ Literature 202⁽³⁾ __
Literature 356⁽³⁾ __ Literature 203⁽³⁾ __
Literature 357⁽³⁾ __

Great Works: Literature 205⁽²⁾ __ Literature 207⁽²⁾ __
Literature 206⁽²⁾ __ Literature 208⁽²⁾ __

Foreign Language Take one of the following sequences:
Spanish 101⁽⁴⁾ __ and Spanish 102⁽⁴⁾ __
German 101⁽⁴⁾ __ and German 102⁽⁴⁾ __
French 101⁽⁴⁾ __ and French 102⁽⁴⁾ __
Biblical Lang. 205⁽⁴⁾ __ and Biblical Lang. 206⁽⁴⁾ __
or
Biblical Lang. 207⁽³⁾ __ and Biblical Lang. 208⁽³⁾ __
and Biblical Lang. 337⁽³⁾ __