Murray State University
Department of Mathematics and Statistics
2012-2013 Undergraduate Bulletin
Student _____________________ M#___________________ __  Advisor _________________________________

UNIVERSITY STUDIES FOR B.S. DEGREE (46-49 HOURS)

Oral and Written Communication (7 Hours)  Hours  Semester  Grade
ENG 105  Critical Reading, Writing, and Inquiry  4 ___ __________  ______
COM 161  Introduction to Public Speaking  3 ______ ___  ______

Scientific Inquiry, Methodologies, and Quantitative Skills (14-15 Hours)

MAT 250  Calculus and Analytic Geometry I  5 ______ ___ ______
MAT 308  Calculus and Analytic Geometry II  5 ______ ___ ______
Approved University Studies Science with Lab  4-5  ______  ______

World’s Historical, Literary, and Philosophical Traditions (6 Hours)

CIV 201 or 202  World Civilization I or II  3 _________ ______
HUM 211  The Western Humanities Tradition  3 _________ ______

Global Awareness, Cultural Diversity, and the World’s Artistic Traditions (3 Hours)

Approved University Studies  3 _________ ______

Social and Self-Awareness and Responsible Citizenship (6 Hours)

Eth., Soc. Resp., or Civ. Engage. Approved Course  3 _________ ______
PSY 180  General Psychology  3 _________ ______

University Studies Approved Electives (9 Hours)

EDP 260  Psychology of Human Development  3 _________ ______
EDU 103  Issues and Practices of American Education  3 _________ ______
MAT 309  Calculus and Analytic Geometry III  4 _________ ______

Required Courses (24 Hours)

MAT 099  Transitions  1 _________ ______
MAT 312  Mathematical Reasoning  3 _________ ______
MAT 335  Matrix Theory and Linear Algebra  3 _________ ______
MAT 517  Foundations of Geometry  3 _________ ______
MAT 540  Mathematical Statistics I  4 _________ ______
MAT 550  Teaching Mathematics  3 _________ ______
MAT 551  Mathematics for Teachers  3 _________ ______
Computer programming course  3 _________ ______

Required Limited Electives (18 Hours)

Three MAT courses (3 or 4 credit hours) selected from MAT 338
and MAT courses numbered 400 or above including:

  at least one of the following:
MAT 513  Modern Algebra I  3 _________ ______
MAT 516  Introduction to Topology  3 _________ ______
MAT 525  Advanced Calculus I  3 _________ ______

  at least one of the following:
MAT 442  Introduction to Numerical Analysis  3 _________ ______
MAT 506  Mathematical Modeling I  3 _________ ______
MAT 524  Boundary Value Problems  3 _________ ______
MAT 541  Mathematical Statistics II  3 _________ ______

  and
An additional course (at least 3 hours) selected from MAT 338 and
MAT courses numbered 400 or above.
At least three (3 or 4 hour) courses selected from courses
numbered 400 or above or from courses in disciplines
related to the application of mathematics selected from a list
approved by the Department of Mathematics and Statistics.

Required for Secondary Certification (35 Hours)

EDU 303  Strategies of Teaching  3 _________ ______
EDU 403  Structures and Foundations of Education  2 _________ ______
EDU 405  Evaluation and Measurement in Education  3 _________ ______
HEA 191  Personal Health  3 _________ ______
SEC 420  Practicum in Secondary Schools  3 _________ ______
SED 300  Educating Students with Disabilities  3 _________ ______
SEC 422  Extended Practicum  4 _________ ______
Total Curriculum Requirements – 123-126 hours

1With a grade of B or better.
2This is a University Studies writing intensive course.
3Selected from a department-approved list. This is a University Studies technology intensive course.
4Department of Mathematics requirement.
5EDU 405 and SEC 420 must be taken together and two semesters before student teaching
6SEC 422 must be taken one semester before student teaching

PRAXIS TEST:
The following scores on the Specialty Exams are required to be eligible for a teaching certificate:
Mathematics (5061 or 0061) – Passing Score of 125 and (0063) – Passing Score of 141
Principles of Learning and Teaching (5624 or 0624) – Passing Score of 160
Teacher certification requirements are subject to change. Before registering for the test(s), please refer to the
Education Professional Standards Board (EPSB) website at www.epsb.ky.gov for current requirements or contact
the Division of Professional learning and Assessment at 502-564-4606 or 888-598-7667.

GRADE POINT AVERAGE REQUIREMENTS:
Grade point averages are reviewed during three checkpoints: admission to teacher education (see Requirements for
Admission to Teacher Education), admission to student teaching (requires a 2.75 average overall; a 2.75 average in
content area; a 2.75 average in professional education) and at the time of completion/graduation (2.75 overall).

IMPORTANT: Upon completion of 60 undergraduate credit hours (junior status), students enrolled or
desiring enrollment in education coursework beyond 12 hours credit MUST be admitted to the Teacher
Education Program. Students must be admitted to Teacher Education prior to enrollment in upper level
teacher education courses.

Admission to Teacher Education requires:
• Minimum GPA of 2.75
• PPST Scores – Reading – 176, Math 174, and Writing 174
• 24 or more credit hours including a B or better in ENG 105, MAT 117, COM 161, and EDU 103 or CTE 200
• Interview with major academic advisor
• Approval of your college Admissions Committee
See Teacher Education Services office for details on admission to Student Teaching.

Statement: Certification requires demonstration of computer competency to meet Kentucky Teacher Standard 6.
Math Certification majors demonstrate computer literacy by successfully completion, with a grade of C or better, in
either CSC 145, CSC 232, CSC 235, or ERG 140.

Note: Continuous assessment procedures are used to document and systematically monitor student progress through
each program in order to determine the degree to which students have internalized and can demonstrate proficiency
with the Kentucky Teacher Standards. The eligibility portfolio is formally assessed during the student teaching
semester. For additional information and requirements, each student should see his/her advisor.

Student _______________________________  Advisor ______________________________

Date __________________________________  Date ______________________________