

MATHEMATICS

98
BS.MATH
Fall 2008-Spring 2009

Bachelor of Science

THE UNIVERSITY OF TEXAS AT BROWNSVILLE and TEXAS SOUTHWEST COLLEGE
COLLEGE OF SCIENCE, MATHEMATICS & TECHNOLOGY

Student Name _____ ID # _____ Date _____

E-mail _____ Signature _____

Academic or Faculty Advisor _____ Date _____

| GENERAL EDUCATION CORE | 48 HOURS | | | MAJOR REQUIREMENTS | 57 HOURS | | |
|--|----------|----|-----|---|----------|----|-----|
| | HRS | GR | SEM | | HRS | GR | SEM |
| COMMUNICATION REQUIREMENT | 9 hours | | | CORE COURSES FOR THE MAJOR | 36 hours | | |
| ENGL 1301 Composition I | 3 | † | | MATH 2305 Discrete Mathematics | 3 | | |
| ENGL 1302 Composition II <i>or</i> ENGL 2311 Technical Writing | 3 | † | | MATH 2318 Linear Algebra | 3 | | |
| SPCH 1315 Applied Communication | 3 | | | MATHU 2332 Geometry I | 3 | | |
| | | | | MATH 2413 Calculus I | 1* | † | |
| MATH REQUIREMENT | 3 hours | | | MATH 2414 Calculus II | 4 | | |
| MATH 2413 Calculus I | 3* | † | | MATH 2415 Calculus III | 4 | | |
| | | | | MATH 3321 Algebra I | 3 | | |
| SCIENCE REQUIREMENT | 8 hours | | | MATH 3339 Topology | 3 | | |
| Select two 4-hour science courses (3 hour lecture must be taken with corresponding 1 hour lab). | | | | MATH 3341 Real Analysis | 3 | | |
| | 3,1 | | | MATH 3349 Differential Equations | 3 | | |
| | 3,1 | | | MATH 3381 Statistics | 3 | | |
| | | | | MATH 4342 Complex Analysis | 3 | | |
| HUMANITIES REQUIREMENT | 6 hours | | | RESTRICTED MATH ELECTIVES | 9 hours | | |
| Literature (ENGL 2000 level) | 3 | | | Choose 3 courses from the following list: | | | |
| ARTS 1301 Art Appreciation <i>or</i> ARTS 1303 Art History <i>or</i> | | | | MATH 4321 Algebra II | 3 | | |
| MUSI 1306 Music Appreciation <i>or</i> MUSI 1308 Music Lit. | 3 | | | MATH 3328 Advanced Linear Algebra | 3 | | |
| | | | | MATH 4329 Number Theory | 3 | | |
| SOCIAL SCIENCE REQUIREMENT | 12 hours | | | MATH 3332 Geometry II | 3 | | |
| HIST 1301 United States to 1877 | 3 | | | MATH 4343 Advanced Analysis | 3 | | |
| HIST 1302 United States since 1877 | 3 | | | MATH 4374 Probability and Statistics | 3 | | |
| GOVT 2301 American and Texas Government | 3 | | | MATH 4367 Numerical Analysis | 3 | | |
| GOVT 2302 American Government and Policy | 3 | | | | | | |
| BEHAVIORAL SCIENCE REQUIREMENT | 3 hours | | | MATH / SCIENCE ELECTIVES | 21 HOURS | | |
| ANTH 2351 Cultural Anthropology | | | | (Must be selected with faculty advisor) | | | |
| BUSI 1301 Introduction to Business | | | | | 3 | | |
| ECON 2301 Macroeconomics | | | | | 3 | | |
| GEOG 1303 General World Geography | | | | | 3 | | |
| PSYC 2301 Introduction to Psychology | | | | | 3 | | |
| SOCI 1301 Introduction to Sociology | | | | | 3 | | |
| SOCI 2319 Mexican American Experience | | | | | 3 | | |
| | | | | | 3 | | |
| KINESIOLOGY REQUIREMENT | 1 hour | | | SUPPORT COURSES | 6 HOURS | | |
| KINE 11____ (One hour of activity/health/wellness/ fitness) | 1 | | | COSC 1336 Programming Fundamentals I | 3 | | |
| | | | | MATH 3366 Computer Algebra Systems | 3 | | |
| MODERN LANGUAGE REQUIREMENT | 6 hours | | | | | | |
| Six hours of the same modern language, other than English. | | | | TOTAL CREDIT HOURS FOR GRADUATION | 120 | | |
| | 3 | | | TOTAL ADVANCED HOURS (minimum) | 36 | | |
| | 3 | | | | | | |

† Grade of "C" or better is required for graduation.

* MATH 2413 – 3 sch for general education and 1 sch toward Major requirements. Pre-requisite for Calculus is MATH 1412-Pre-Calculus or Departmental Placement Test.