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| **Arkansas State University - Jonesboro** | | | | | | | | |
| **Bachelor of Science** | | | | | | | | |
| **Major:  Mathematics** | | | | | | | | |
| **2014-2015** | | | | | | | | |
|  | | | | | | | | |
| Students requiring developmental course work based on low entrance exam scores (ACT, SAT, ASSET, COMPASS) may not be able to complete this program of study in eight (8) semesters.  Developmental courses do not count toward total degree hours.  **Students having completed college level courses prior to enrollment will be assisted by their advisor in making appropriate substitutions.   In most cases, general education courses may be interchanged between semesters.**    A minimum of 45 hours of upper division credit (3000-4000 level) is required for this degree.  Mandatory state and institutional assessment exams will be required during your degree program.  ***Failure to participate in required assessments may delay graduation.*** | | | | | | | | |
| **Year 1** | | | |  | **Year 1** | | | |
| **Fall Semester** | | | |  | **Spring Semester** | | | |
| **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |  | **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |
| MATH 1093 | Making Connections | 3 |  |  | MATH 2214 | Calculus II | 4 |  |
| MATH 2204 | Calculus I | 4 | X |  | ENG 1013 | Composition II | 3 | X |
| ENG 1003 | Composition I | 3 | X |  | ENG 2003 or  ENG 2013 or  PHIL 1103 | Intro to World Lit I or  Intro to World Lit II or  Intro to Philosophy | 3 | X |
| MUS 2503 or  THEA 2503 or  ART 2503 | Fine Arts-Musical or Fine Arts-Theatre or  Fine Arts -Visual | 3 | X |  | ANTH 2233**\*** or  GEOG 2613**\*** or  HIST 1013**\*** or  HIST 1023**\*** | Intro to Anthropology or  Intro to Geography or  World Civ to 1660 or  World Civ since 1660 | 3 | X |
| HIST 2763**\*** or  HIST 2773**\*** or  POSC 2103**\*** | U.S. to 1876 or  U.S. since 1876 or  Intro to U.S. Gov’t | 3 | X |  | ECON 2313 or  ECON 2333 or  JOUR/RTV 1003 or  POSC 1003 or  PSY 2013 or  SOC 2213 or  course labeled **\*** | Principles of Macroecon or  Econ Issues & Concepts or  Mass Communication or  Intro to Politics or  Intro to Psychology or  Intro to Sociology or  course labeled \* | 3 | X |
|  |  |  |  |  |  |  |  |  |
| **Total Hours** |  | 16 |  |  | **Total Hours** |  | 16 |  |
| **Year 2** | | | |  | **Year 2** | | | |
| **Fall Semester** | | | |  | **Spring Semester** | | | |
| **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |  | **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |
| MATH 3254 | Calculus III | 4 |  |  | MATH 4403 | Differential Equations | 3 |  |
| MATH 3303 | Modern Algebra I | 3 |  |  | MATH 3323 or Math/Stat elective | Mathematical Modeling or Math/Stat elective | 3 |  |
| MATH 2183 | Discrete Structures | 3 |  |  | CS 1114 or student choice of elective | Concepts of Programming (recommended before CS 2114) or student choice of elective | 4 |  |
| PHYS 2034 | University Physics I | 4 | X |  | PHYS 2044 | University Physics II | 4 |  |
|  |  |  |  |  |  |  |  |  |
| **Total Hours** |  | 14 |  |  | **Total Hours** |  | 14 |  |

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| **Year 3** | | | |  | **Year 3** | | | |
| **Fall Semester** | | | |  | **Spring Semester** | | | |
| **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |  | **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |
| STAT 4453 | Probability and Statistics I | 3 |  |  | STAT 4463 | Probability and Statistics II | 3 |  |
| STAT 3233 | Applied Statistics I | 3 |  |  | STAT 4473 or  Jr/Sr elective | Applied Statistics II or Jr/Sr elective | 3 |  |
| MATH 3353 or  Math/Stat elective | History of Math or Math/Stat elective | 3 |  |  | BIOL 1003  BIOL 1001 | Biological Science  Lab for Biological Science | 4 | X |
| CS 2114 | Structured Programming | 4 |  |  | MATH 3243 | Linear Algebra | 3 |  |
| Student choice of elective | Student choice of elective | 1 |  |  | MATH 3343 or Jr/Sr elective | College Geometry | 3 |  |
|  |  |  |  |  |  |  |  |  |
| **Total Hours** |  | 14 |  |  | **Total Hours** |  | 16 |  |
|  |  |  |  |  |  |  |  |  |
| **Year 4** | | | |  | **Year 4** | | | |
| **Fall Semester** | | | |  | **Spring Semester** | | | |
| **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |  | **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |
| MATH 4553 | Advanced Calculus I | 3 |  |  | MATH 4563 or Math/Stat elective | Advanced Calculus II or Math/Stat elective | 3 |  |
| MATH 4513 or Math/Stat elective | Applied Mathematics or Math/Stat elective | 3 |  |  | MATH 459V or  MATH 4533 or  Jr/Sr elective | Partial Differential Eqns or  Numerical Methods or  Jr/Sr elective | 3 |  |
| Elementary Foreign Language I or student choice of elective if two years of foreign language were taken in high school | Elementary Foreign Language I or student choice of elective if two years of foreign language were taken in high school | 3 |  |  | Elementary Foreign Language II or student choice of elective if two years of foreign language were taken in high school | Elementary Foreign Language II or student choice of elective if two years of foreign language were taken in high school | 3 |  |
| ECON 2313 or  ECON 2333 or  JOUR/RTV 1003 or  POSC 1003 or  PSY 2013 or  SOC 2213 or course labeled **\*** | Principles of Macroecon or  Econ Issues & Concepts or  Mass Communication or Intro to Politics or  Intro to Psychology or Intro to Sociology or course labeled **\*** | 3 | X |  | Student choice of elective | Student choice of elective | 3 |  |
| Student choice of elective | Student choice of elective | 3 |  |  | Student choice of elective | Student choice of elective | 3 |  |
| **Total Hours** |  | 15 |  |  | **Total Hours** |  | 15 |  |
|  |  |  |  |  |  |  |  |  |
| **Total Jr/Sr Hours** | | **45** |  |  | **Total Degree Hours** | | **120** |  |
|  |  |  |  |  |  |  |  |  |