**BACHELOR OF ARTS DEGREE IN MATHEMATICS**

|  |  |  |  |
| --- | --- | --- | --- |
| **Courses** | **Titles** | **Credit Hrs.** |  |
| MATH | 1211 | Calculus I | 4 |
| MATH | 2212 | Calculus II | 4 |
| MATH | 2411 | Basic Statistics | 3 |
| MATH | 2111 | Linear Algebra | 3 |
| FREN | 1101 | Elem. French or GRMN 1121 Elem German | 3 |
| **Subtotal** |  |  | **17** |

**Major Requirements**

**Sciences &**

**Health**

**Professions**

|  |  |  |  |
| --- | --- | --- | --- |
| MATH | 2213 | Calculus III | 4 |
| MATH | 3101 | Introduction to Number Theory | 3 |
| MATH | 3211 | Ordinary Differential Equations | 3 |
| MATH | 3313 | Modern Geometry | 3 |
| MATH | 3314 | Math Statistics | 3 |
| MATH | 4111 | Modern Algebra I | 3 |
| MATH | 4112 | Modern Algebra II | 3 |
| MATH | 4211 | Elem. of Analysis I | 3 |
| MATH | 4212 | Elem. of Analysis II | 3 |
| MATH | 4215 | Numerical Analysis | 3 |
| MATH | 4313 | Topology | 3 |
| MATH | 4512 | Senior Project | 1 |
| FREN | 1102, Elem. | Fren or GRMN 1121, Elem. German | 3 |
| **Subtotal** |  |  | **38** |

**Major Electives**

Six hours from the following: 6

**Personnel &Index**

**Sciences &**

**Health**

**Professions**

**Course**

**Descriptions**

**Graduate**

**School**

**Education**

**Business**

**Arts & Humanities**

**Albany State State**

|  |  |
| --- | --- |
| MATH 3112 Discrete Mathematics | 3 |
| MATH 3413 Introduction to Combinatorics | 3 |
| MATH 4214 Introduction to Complex Variables | 3 |
| MATH 4511 History of Mathematics | 3 |
| General Electives |  |
| Any course from the college curriculum. | 16 |
| **Subtotal** | **60** |
| **Total Required for Graduation** | **125** |

**Mathematics**

**Albany State**

**PROGRAM OF STUDY FOR THE BACHELOR OF ARTS DEGREE IN MATHEMATICS**

125 Semester Hours

**Freshman Year Fall Spring**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ENGL | 1101 | English Comp. I | 3 | ENGL | 1102 | English Comp. II | 3 |
| MATH | 1113 | Precalculus | 3 | MATH | 1211 | Calculus 1 | 4 |
| COMM | 1100 | Analytic Discussion | 3 | PEDH | Elective |  |  |
| HEDP | 1001 |  | 2 |  |  |  |  |
| CHEM | 1211K | General Chemistry I or | 4 | CHEM | 1212K | General Chemistry II | 4 |
| PHYS | 1001K | Physical Science I or |  | PHYS | 1002K | Physical Science II | 4 |
| PHYS | 2221K | Introductory Physics |  | PHYS | 2222K | Principles of Physics II |  |
| ASU | 1200 | Fresh. Sem. & Serv. to Lead. | 3 | POLS | 1101 | U.S. & GA Government | 3 |
| **Total Hours** |  |  | **16** |  |  |  | **16** |

**Sophomore Year**

**Arts & Humanities**

ENGL 2111 World Lit. I 3 MATH 2213 Calculus III 4

MATH 2212 Calculus II 4 Hum./Fine Arts Elective 3

**Business**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Social Science Elective | | | 3 | MATH 2111 | | Linear Algebra | 3 |
| CSCI | 1003 | Intro. to Technology | 2 | Social Science Elective | |  | 3 |
| MATH | 2411 | Basic Statistics | 3 | PEDH | | Elective | 1 |
| General Elective | |  | 2 | HIST | 1002 | Intro. to African Diaspora | 2 |
| **Total Hours** | |  | **17** |  |  |  | **16** |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Junior Year** |  | | | | | | |
| MATH | 3213 | Modern Geometry | 3 | MATH | 4112 | Modern Algebra II | 3 |
| MATH | 3211 | Ordinary Diff. Equa. | 3 | MATH | 3101 | Intro to Number Theory | 3 |
| MATH | 4111 | Modern Algebra I | 3 | FREN or GRMN II | |  | 3 |
| MATH | 3314 | Math Statistics | 3 |  | |  |  |

FREN 1101 OR GRMN 1121 3 Social Science Elective 3

**Education**

General Elective 3

**Total Hours 15 15**

**Graduate**

**School**

**Course**

**Descriptions**

**Senior Year**

MATH 4211 Elements of Analysis I 3 MATH 4212 Elements

Analysis II 3

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| MATH | Elective | 3 | MATH | 4215 | Numeric Analysis | 3 |
| MATH | Elective | 3 | MATH | 4313 | Topology | 3 |
| General Electives |  | 7 | MATH | 4512 | Senior Project | 1 |
| Project |  | 1 |  |  |  |  |
| General Electives |  | 4 |  |  |  |  |
| **Total Hours** |  | **16** |  |  |  | **14** |

**Personnel&**

**Index**

2008-2012 Undergraduate Catalog

**Sciences &**

**Health**

**Professions**