**Computer Science**

**Albany State**

**BACHELOR OF SCIENCE DEGREE IN COMPUTER SCIENCE**

**(MATHEMATICS EMPHASIS)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Courses** |  | **Titles** | **Credit Hrs.** |
| CSCI | 2101 | Intro to Computer Science | 3 |
| CSCI | 1301 | Computer Science I | 4 |
| CSCI | 2211 | Visual BASIC Programming | 3 |
| CSCI | 1302 | Computer Science II | 4 |
| MATH | 1211 | Calculus 1 | 4 |
| **Subtotal** |  |  | **18** |

**Major Requirements**

**Education**

**Business**

**Arts & Humanities**

|  |  |  |  |
| --- | --- | --- | --- |
| CSCI | 3111 | Discrete Structures | 3 |
| CSCI | 3122 | Data Structures | 3 |
| CSCI | 3211 | Computer Organization & Architecture I | 3 |
| CSCI | 3212 | Computer Organization& Architecture II | 3 |
| CSCI | 4113 | Operating Systems | 3 |
| CSCI | 4123 | Computer Networks | 3 |
| CSCI | 4151 | System Simulation | 3 |
| CSCI | 4221 | Software Engineering | 3 |
| CSCI | 4311 | Computer Graphics | 3 |
| CSCI | 4211 | Systems Analysis I | 3 |
| CSCI | 4911 | Special Topics in Computer Science | 3 |
| MATH | 2212 | Calculus II | 4 |
| MATH | 2213 | Calculus III | 4 |
| MATH | 2411 | Basic Statistics | 3 |
| MATH | 2111 | Linear Algebra | 3 |
| MATH | 3211 | Ordinary Differential Equations | 3 |
| MATH | 3423 | Introductions to Operations Research | 3 |
| MATH | 4215 | Numerical Analysis | 3 |
| **Subtotal** |  |  | **56** |

Major Electives 6

General Electives 3

Any courses in the college curriculum

**Subtotal 66**

**Total Required For Graduation 125**

**Sciences &**

**Health**

**Professions**

**PROGRAM OF STUDY FOR THE BACHELOR OF SCIENCE DEGREE IN COMPUTER SCIENCE (MATHEMATICS EMPHASIS)**

**Graduate**

**School**

Total number of hours= 125

**Freshman Year**

**Fall Spring**

ENGL 1101 English Comp. I 3 ENGL 1102 English Comp. 11 3

MATH 1211 Calculus I 4 MATH 2411 Basic Statistics 3

HIST 1002 Introduction to African Diaspora 2 ASU 1200 Freshmen Sem/Service L'dship 3

**Course**

**Descriptions**

CHEM 1211K General Chem. 1 or 4

PHYS 1111K Introductory Physics 1 CHEM 1212K General Chem. 11 or 4

PHYS 1112K Introductory Physics 1 1

CSCI 2101 Intro to Computer Science 3 COMM 1100 Analytic Discussions of Global Issues 3

**Total 16 16**

**Personnel&**

**Index**

**Sophomore Year**

**Fall Spring**

ENGL 2111 World Literature I 3 ECON 2105 Princ. Of Macroeconomics 3

CSCI 1301 Computer Science I 4 CSCI 1302 Computer Science II 4

Humanities/Fine Arts Elective 3 POLS 1101 US & Georgia Gov. 3

HIST 1111/1112 Survey to World Hist. I or II 3 PEDH Activity 2

MATH 2212 Calculus II 4 MATH 2213 Calculus III 4

**Total 17 16**

2008-2012 Undergraduate Catalog

**Junior Year**

**Sciences &**

**Health**

**Professions**

**Graduate**

**School**

**Course**

**Descriptions**

**Personnel &Index**

**Albany State**

**Business**

**Education**

**Arts & Humanities**

**Fall Spring**

CSCI 3132 Data Structures 3 CSCI 2111 Visual Basic Programming 3

CSCI 3211 Comp. Org. & Arch. 1 3 CSCI 3111 Discrete Structures 3

Social Science Elective 3 MATH 2111 Linear Algebra 3

MATH 4215 Numerical Analysis 3 MATH 3211 Differential Equations 3

MATH 2111 Linear Algebra 3 CSCI 3212 Comp. Org. & Arch 11 3

PEDH Activity 1

**Total 15 16**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **SeniorYear** |  | | | | | | |
| **Fall** |  |  |  | **Spring** |  |  |  |
| CSCI | 4113 | Operating Systems | 3 | CSCI | 4123 | Computer Networks | 3 |
| CSCI | 4411 | Artificial Intelligence | 3 | CSCI | 4911 | Special Topics | 3 |
| MATH | 3423 | Intro. Operations Research | 3 | CSCI | 4151 | Systems Simulation | 3 |
| MATH | 4215 | Numerical Analysis | 3 | CSCI | 4311 | Computer Graphics | 3 |
| General Electives | |  | 1 | General Electives | |  | 2 |
| **Total** | |  | **15** |  | |  | **14** |