

I. GENERAL EDUCATION CURRICULUM 44
The science taken in AREA II-D fulfills part or all of the Science Inquiry Perspective. MAT 1110 fulfills the Quantitative Literacy requirement.

II. MAJOR REQUIREMENTS (not including 9-12 s.h. counted in Area I, above) 67-70
2.0 major GPA is required for graduation. Major GPA calculation will include all courses taken in the major department, plus any other courses under II. Minimum of 18 semester hours of courses taken to fulfill major requirements must be courses offered by Appalachian.

A. Computer Science (39 hours):

- C S 1440 _____ (4) Computer Science I (Pre: MAT 1020/1025 w/minimum grade "C-")
- C S 2440 _____ (4) Computer Science II (Pre: CS 1440 or 1445 w/minimum grade "C"; Co: 1100)
- C S 2450 _____ (3) Introduction to Computer Systems (Pre: CS 2440)
- C S 2490 _____ (3) Introduction to Theoretical Computer Science (Pre: CS 2440)
- C S 3100 _____ (2) Junior Seminar in Computer Science [WID] (Pre: ENG 2001)
- C S 3430 _____ (3) Database (Pre: CS 2440)
- C S 3460 _____ (3) Data Structures (Pre: CS 2440)
- C S 3481 _____ (3) Computer Systems I (Pre: CS 2450, 2490; Co: 3460)
- C S 3482 _____ (3) Computer Systems II (Pre: CS 3481, 3460; Co: 3490)
- C S 3490 _____ (3) Programming Languages (Pre: CS 2490, 3460)
- C S 3667 _____ (3) Software Engineering (Pre: CS 2440)
- C S 4100 _____ (2) Senior Seminar in Computer Science (Pre: CS 3100; Sr. standing)
- C S 4800 _____ (3) Capstone Project [CAP] (Pre: CS 3667; Sr. standing)

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| Major Requirements that count in Gen Education: | |
| Quantitative Lit | |
| MAT 1110 | 4 s.h. |
| Science Inquiry | |
| (depends on choices) | |
| AST 1001 & 1002 | 8 s.h. |
| CHE 1101/1110 | 4 s.h. |
| CHE 1102/1120 | 4 s.h. |
| PHY 1150 | 5 s.h. |
| GLY 1101 & 1102/1103 | 8 s.h. |
| Total Major hrs: | 79 |
| Gen Ed- up to 12 hrs: | - 9-12 |
| Net Major hrs: | 67-70 |

B. Mathematics (18 hours):

- C S 1100 _____ (3) Discrete Mathematics (Pre: MAT 1020 or 1025 w/minimum grade "C-")
- MAT 1110 _____ (4) Calculus with Analytic Geometry I (Pre: MAT 1025 w/min grade C-)
- MAT 1120 _____ (4) Calculus with Analytic Geometry II (Pre: MAT 1110 w/min grade C-)
- MAT 2240 _____ (3) Introduction to Linear Algebra (Pre: MAT 1120)
- STT 3850 _____ (4) Statistical Data Analysis I (Pre: MAT 1110)

C. Computer Science electives (9 hours)

These courses must be selected from C S courses numbered above 2000 (excluding 3520) and may include MAT 4310 and 4990. No more than three hours of CS 3470 may be included in the nine hours.

D. Science Requirement: Complete a minimum of 13 semester hours from one of the following options:

Option A

- PHY 1150 _____ (5) Analytical Physics I (Co: MAT 1110)
- PHY 1151 _____ (5) Analytical Physics II (Co: MAT 1120)

AND choose one of the following courses:

- AST 1001 _____ (4) Introductory Astronomy I-Solar System
- BIO 1801 _____ (4) Biological Concepts I (Co: CHE 1110)
- CHE 1101/CHE 1110 _____ (4) Intro Chem I & Lab
- GLY 1101 _____ (4) Intro to Physical Geology

Option B

- PHY 1150 _____ (5) Analytical Physics I (Co: Mat 1110)

AND one of the following 8 s.h. sequences:

- AST 1001 _____ (4) Introductory Astronomy I-Solar System
- AST 1002 _____ (4) Intro Astronomy II-Stars & Galaxies (Pre: AST 1001)
- CHE 1101/1110 _____ (4) Introductory Chemistry I & Lab
- CHE 1102/1120 _____ (4) Introductory Chem II & Lab (Pre: CHE 1101/1110)
- BIO 1801 _____ (4) Biological Concepts I (Co: CHE 1101)
- BIO 1802 _____ (4) Biological Concepts II (Pre: BIO 1801)
- GLY 1101 _____ (4) Introduction to Physical Geology
- GLY 1102 _____ (4) Intro. to Historical Geology
- OR
- GLY 1103 _____ (4) Introduction to Environmental & Applied Gly

III. MINOR (optional)

IV. ELECTIVES (taken to total minimum required for the degree, normally 122 hours) 8-11
2 semester hours of free electives must be outside the major discipline. 122