

COMPUTER MATHEMATICS: Bachelor of Science (124 cr)

Keene State College

2007-2008 Catalog

INTEGRATIVE STUDIES PROGRAM REQUIREMENTS (44 cr)

Note: Students must complete the **Thinking & Writing** requirement within their first two semesters and the **Quantitative Literacy** requirement within their first three semesters.

Foundations

ITW: Thinking & Writing _____
IQL: Quantitative Literacy _____

Perspectives

NOTE: Students may take only **one** course in any specific discipline within the *PERSPECTIVES* area. Disciplines are shown in **BOLD**, such as IAART.

IA: Arts – IAART, IAMU, IATAD

1 course: _____

IH: Humanities - IHCOMM, IHENG, IHFILM, IHFR, IHGER, IHHIST, IHJRN, IHML, IHPHIL, IHSP

2 courses: _____ _____

IA/IH: 1 additional course in either IA or IH

1 course: _____

IN: Natural Sciences – INASTR, INBIO, INCHEM, INGEOL, INMET, INPHYS

2 courses: _____ _____

IS: Social Sciences – ISANTH, ISCJS, ISECON, ISGEOG, ISPOSC, ISPSYC, ISSOC, ISSOSC

2 courses: _____ _____

Interdisciplinary

II: Any course beginning with II

1 course: _____

NOTE: Courses fulfilling *PERSPECTIVES* and *INTERDISCIPLINARY* requirements may be at the 100-400 level. All students must complete a minimum of **24** credits at the 100-200 level and a minimum of **8** credits at the 300-400 level to complete the *Integrative Studies Program (ISP)*.

MAJOR REQUIREMENTS (56 cr)

Computer Science/Math Core:

- CS 140 Computer Programming I
- CS 150 Web Page Construction ~or~
 - CS 160 Computer Hardware
- CS 185 Computer Programming II
- CS 280 Data Structures
- MATH 151 Calculus I*
- MATH 152 Calculus II
- MATH 231 Linear Algebra & Diff. Equations
- MATH 225 Intro to Abstract & Discrete Math
- MATH 241 Probability & Statistics I
- INPHYS 241 University Physics I**

Choose one from the following:

- MATH 360 Numerical Methods
- MATH 365 Mathematical Modeling

Choose one from the following:

- CS 205 Visual Programming
- CS 220 COBOL
- CS 225 C++ Programming
- CS 230 RPG Programming

Choose two 300/400 level CS electives:

- CS 300/400 Elective _____
- CS 300/400 Elective _____

***NOTE:** MATH 151 will meet the IQL requirement.

****NOTE:** Course may be used to satisfy an Integrative Studies requirement; credits only count once.