

# COMPUTER MATHEMATICS: Bachelor of Science (124 cr)

Keene State College

2009-2010 Catalog

*Meet with a faculty advisor in Computer Science/Math to discuss your academic plans.  
This sheet is for general advising purposes only.*

## MAJOR REQUIREMENTS (56 credits)

### Computer Science Core (28 credits)

- CS 140 Computer Programming I
- CS 150 Web Page Construction
- or-**  CS 160 Microcomputer Systems
- CS 185 Computer Programming II
- CS 280 Data Structures

*Select one CS course in a programming language other than the primary language take in CS 140, CS 185, or CS 280, and approved by the advisor:*

- CS 205 Visual Programming **-or-**  CS 220 COBOL **-or-**  CS 225 C++ Programming
- or-**  CS 230 RPG Programming **-or-**  CS 310 Assembly Language

### Select two 300/400-level CS Electives

*(must be approved by advisor)*

- CS \_\_\_\_\_
- CS \_\_\_\_\_

### Mathematics Core (24 credits)

- MATH 151 Calculus I
- MATH 152 Calculus II
- MATH 225 Introduction to Abstract and Discrete Mathematics
- MATH 231 Linear Algebra and Differential Equations
- MATH 241 Probability and Statistics I

### Select one of the following two courses:

- MATH 360 Numerical Methods **-or-**  MATH 365 Mathematical Modeling

### Physics Core (4 credits)

- INPHYS 241 University Physics I

*I-prefixed courses may also be used to fulfill Integrative Studies requirements, credits count once.*

# Integrative Studies Program (ISP) Requirements: 44 cr

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*Integrative Studies classes will make up one-third of your undergraduate education. With both lower- and upper-level requirements, these classes are meant to be taken across your four years. Don't just fill in the blanks, look for classes that intrigue you.*

## Foundations

- ITW: Thinking & Writing** (Take in either your first or second semester.)
- IQL: Quantitative Literacy** (Take within your first three semesters.)

## Perspectives

*Only one course in any single discipline can be used to fulfill your Integrative Studies requirements within the **Perspectives** area. Disciplines are shown below in **BOLD** (such as **INBIO**) and may appear in more than one category (such as **IAENG** and **IHENG**). Write the course number and title of the classes you are taking in the spaces below. To review majors, courses and additional information, go to the on-line catalog: [www.keene.edu/catalog](http://www.keene.edu/catalog).*

**IA: Arts** – *One course beginning with IA: IAART, IAENG, IAMU or IATAD.*

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**IH: Humanities** – *Two courses in two different disciplines beginning with IH: IHAMST, IHCOMM, IHENG, IHFILM, IHFR, IHGER, IHHGS, IHHIST, IHJRN, IHPHIL, IHSP.*

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**IA/IH: One additional course in either Arts or Humanities in a discipline not used above.**

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**IN: Natural Sciences** – *Two courses in two different disciplines beginning with IN: INASTR, INBIO, INCHEM, INGEOL, INMET or INPHYS.*

\_\_\_\_\_  \_\_\_\_\_

**IS: Social Sciences** – *Two courses in two different disciplines beginning with IS: ISANTH, ISECON, ISGEOG, ISPOSC, ISPYSC or ISSOC.*

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## Interdisciplinary

**II: One course in any discipline (even if already used in Perspectives) beginning with II:**

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**NOTE:** *In ISP, 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. A total of 24 100-200 level ISP credits (including both ITW and IQL) must be completed before taking a 300-400 level class.*

*Check your major requirements to see if any may also be used to fulfill an Integrative Studies requirement (look for the "I" prefix). Remember, however: credits count **once**.*