

APPLIED COMPUTER SCIENCE: Bachelor of Science (124 cr)

Keene State College

2009-2010 Catalog

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

MAJOR REQUIREMENTS (54 credits)

Core Courses (20 credits)

- CS 140 Computer Programming I MATH 135 Mathematical Foundations for CS
- CS 185 Computer Programming II CS 280 Data Structures and Algorithms

Select one of the following:

- CS 160 Microcomputer Systems -or- CS 150 Web Page Construction

Architecture and Programming Electives (8 credits)

Complete one CS course, approved by a CS advisor, in a second, non-Windows computer-operating system or architecture; current options are:

- CS 210 Midrange Systems CS 215 Unix System Administration
- CS 265 Computer Architecture CS 367 OS-400 CL Programming

Complete one additional CS course, approved by a CS advisor, in a programming language other than the primary language taken in CS 140, CS 185, or CS 280. Current options are:

- CS 205 User Interface and Visual Programming
- CS 220 COBOL Programming CS 225 C++ Programming
- CS 230 RPG Programming CS 310 Assembly Language

Advanced Electives (24 credits)

Complete 24 credits at the 300/400 level (excluding CS 492 and CS 494) with a minimum of three courses at the 400 level and a maximum 4 credits in CS 498. Current options are:

- CS 310 Assembly Language CS 320 Operating Systems Design
- CS 340 Internet Programming CS 350 Project Management
- CS 355 Telecom & Computer Networks CS 360 Database Systems
- CS 367 OS-400 CL Programming CS 375 Software Engineering
- CS 410 Adv. Software Development CS 420 E-Commerce Development
- CS 430 Study of Prog. Languages CS 440 Software Engineering Project
- CS 460 Data Warehousing and Mining CS 462 DBS Project & Advanced SQL
- CS 485 Strategic Information Mgt. CS 490 Advanced Special Topics
- CS 495 Seminar CS 498 Independent Study

Practical Experience (2 credits)

- CS 293 Supervised Field Experience -or- CS 493 Adv. Supervised Field Experience

Integrative Studies Program (ISP) Requirements: 44 cr

Keene State College

2009-2010 Catalog

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.*

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

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

_____ _____

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

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.*

_____ _____

Interdisciplinary

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

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**.*