

# APPLIED COMPUTER SCIENCE: Bachelor of Science (124 cr)

Keene State College

2007-2008 Catalog

## *INTEGRATIVE STUDIES PROGRAM REQUIREMENTS (44 cr)*

### Foundations

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

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, ISPYSC, 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 28 credits at the 100-200 level and a minimum of 8 credits at the 300-400 level to complete the *Integrative Studies Program (ISP)*.

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## *MAJOR REQUIREMENTS (62 cr)*

Core (20 cr):

- CS 140 Computer Programming I
- CS 160 Microcomputer Systems ~or~  CS 150 Web Page Construction
- CS 185 Computer Programming II
- CS 280 Data Structures
- CS 495 Seminar

Supervised Field Experience Requirement (2 cr):  CS 293 ~and/or~  CS 493

Electives (24 cr): **MUST include one programming language** course **AND one non-Windows** course. CS 205, CS 220, CS 225, CS 230, CS 265, CS 320, CS 362, or CS 367 meet one or both of these requirements.

CS 200 level electives (total 8 cr); **not** including 280, 293, or 294:  CS \_\_\_\_\_  CS \_\_\_\_\_

CS 300/400 level electives (total 16 cr); two of four courses at 400 level, **not** including CS 495, 493 or 494:

CS \_\_\_\_\_  CS \_\_\_\_\_  CS \_\_\_\_\_  CS \_\_\_\_\_

**Note:** CS 498: Independent Study may be used for a maximum of 4 credits of electives.

Interdisciplinary Requirement: Choose **one** of the following options:

- Applied Computer Science (16 cr) which includes MATH 135 & at least 12 credits in **one** non-CS discipline (see catalog for full requirements) ~or~
- Dual Major in Early, Elementary or Elementary/Special Education

## 4-Year Planner for BS in Applied Computer Science

Course Number	Course Title	Credits
<b>Fall – Year 1</b>		
CS140	Programming I	4
	Web Page Construction	4
CS 150 or CS 160	Microcomputer Systems	
IQL101	Quantitative Literacy	4
ISP	Integrative Studies	4
Total credits		16

Course Number	Course Title	Credits
<b>Spring – Year 1</b>		
CS185	Programming II	4
	Math Foundations for CS	4
MATH 135		
ITW101	Thinking and Writing	4
ISP/EL	Integrative Studies or Elective	4
Total credits		16

Course Number	Course Title	Credits
<b>Fall – Year 2</b>		
CS280	Data Structures	4
IR	Interdisciplinary Req	4
ISP	Integrative Studies	4
ISP/EL	Integrative Studies or Elective	4
Total credits		16

Course Number	Course Title	Credits
<b>Spring – Year 2</b>		
CS293	Supervised Field Experience	2
CS 2xx/3xx	CS 200- or 300-level Elective	4
IR	Interdisciplinary Req	4
ISP	Integrative Studies	4
Total credits		14

Course Number	Course Title	Credits
<b>Fall – Year 3</b>		
CS2xx/3xx	CS 200- or 300-level Elective	4
IR	Interdisciplinary Req	4
ISP	Integrative Studies	4
ISP/EL	Integrative Studies or Elective	4
Total credits		16

Course Number	Course Title	Credits
<b>Spring – Year 3</b>		
CS3xx/4xx	CS 300- or 400-level Elective	4
CS3xx/4xx	CS 300- or 400-level Elective	4
ISP	Integrative Studies	4
ISP/IR/EL	Integrative Studies, Inter Disc or Elective	4
Total credits		16

Course Number	Course Title	Credits
<b>Fall – Year 4</b>		
CS4xx	CS 400-level Elective	4
IR	Interdisciplinary Req	4
ISP	Integrative Studies	4
ISP/IR	Integrative Studies or Inter Disc	4
Total credits		16

Course Number	Course Title	Credits
<b>Spring – Year 4</b>		
CS4xx	CS 400-level Elective	4
CS495	Seminar	4
ISP	Integrative Studies	4
ISP/EL	Integrative Studies or Elective	4
Total credits		16

Total credits: 126 (124 required to complete BS degree)