

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 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 (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 |
|----------------------|-----------------------|---------|
| Fall – Year 1 | | |
| 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 |
|------------------------|---------------------------------|---------|
| Spring – Year 1 | | |
| CS185 | Programming II | 4 |
| | | 4 |
| MATH 135 | Math Foundations for CS | |
| ITW101 | Thinking and Writing | 4 |
| ISP/EL | Integrative Studies or Elective | 4 |
| Total credits | | 16 |

| Course Number | Course Title | Credits |
|----------------------|---------------------------------|---------|
| Fall – Year 2 | | |
| 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 |
|------------------------|-------------------------------|---------|
| Spring – Year 2 | | |
| 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 |
|----------------------|---------------------------------|---------|
| Fall – Year 3 | | |
| 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 |
|------------------------|---|---------|
| Spring – Year 3 | | |
| 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 |
|----------------------|-----------------------------------|---------|
| Fall – Year 4 | | |
| 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 |
|------------------------|---------------------------------|---------|
| Spring – Year 4 | | |
| 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)