**2006-2007 Catalog** **KEENE STATE COLLEGE**
Bachelor of Science ***Note:*** For advising support only.
**APPLIED COMPUTER SCIENCE** See catalog for full degree requirements.

Name: _____ ID#: _____

# GENERAL EDUCATION (minimum 43 credits)

**ENGLISH LANGUAGE COMPETENCE:** (4 credits) **Write in courses / credits:**

- English 101-Essay Writing is required of all students. ☐ ENG 101 _____ / 4

**ARTS & HUMANITIES:**

A minimum of ~~15~~ 12 credits, as follows:

- One course in Literature ☐ _____ /__

(Any 200- or 300-level English course except 202, 203, 204, 208, 301, 302, 303, 304, 308, 312; FR 303 and SP 303 may also be used to fulfill this requirement)

- One course in History. **(For teacher certification, a US History course is required)** ☐ _____ /__
- ~~One course in Art, Film, Music or Theatre & Dance~~. ☐ _____ /__
- Additional credits from Arts & Humanities: AMST, ART, COMM, ENG, FILM, FR, GER, HIST, JRN, ML, MU, PHIL, SP, TAD or an approved interdisciplinary course (WS 201* or IDAH). ☐ _____ /__ ☐ _____ /__

**SOCIAL SCIENCES:**

A minimum of ~~12~~ 9 credits in **three** or more Social Sciences disciplines: ANTH, ECON, GEOG, POSC, PSYC, SOC or an approved interdisciplinary course (WS 201* or IDSS). ☐ _____ /__ ☐ _____ /__ ☐ _____ /__

**(For teacher certification, a Geography course is required)**

**SCIENCES/MATHEMATICS:**

A minimum of ~~12~~ 9 credits, as follows:

- One course in Biology. ☐ _____ /__
- One course in Physical Science (ASTR, CHEM, GEOL, MET, PHYS) ☐ _____ /__
- Additional credits from Sciences/Mathematics: ☐ _____ /__

ASTR, BIO, CHEM, CS, ENST, GEOL, MATH, MET, PHYS or an approved interdisciplinary courses (IDSM). ☐ MATH 141 _____ /__

**(MATH 141-Introductory Statistics is required for the major)**

***WS 201 may be used once, to fulfill either an Arts & Humanities or a Social Sciences requirement.**

**Statistics competency can be met by PSYC 251-Psychological Statistics, which can then count as a Social Sciences general education requirement; another Sciences/Mathematics course would be needed to replace MATH 141.**

**MAJOR REQUIREMENTS: 44 credits (Plus Interdisciplinary Requirements – See Catalog)**
**Note:** MATH 141 or PSYC 251 is required and may be used to fulfill General Education requirements.

**Programming Core:**

☐ CS 140: Computer Programming I
☐ CS 160: PC Hardware Fundamentals*
☐ CS 185 Computer Programming II
☐ CS 280: Data Structures

**Capstone Course:**

☐ CS 495: Seminar

**Second Language Requirement:** *See catalog for options and consult with your advisor.*
☐ CS _____ _____*(Advisor's signature)*

**Four 300-level CS courses, not listed above*:**

☐ CS_____ ☐ CS_____
☐ CS_____ ☐ CS_____

**Two 400-level CS courses, not listed above:**

☐ CS_____ ☐ CS_____

**Computer Architecture Requirement:** *See catalog for options and consult with your advisor.*
☐ _____ _____*(Advisor's signature)*

**Supervised Field Experience Requirement:** *(Minimum of three credits required)*
☐ CS 293 _____ **and/or** ☐ CS 493 _____

**INTERDISCIPLINARY REQUIREMENTS: Select one of the following three options.**

**1. Applied Computer Science (18 credits)**

☐ MATH 120: App. Algebra & Trigonometry *(MATH 130 or MATH 151 may be substituted)*

**Computer content-related courses (min. 9 cr)** *(Select three courses in any one non-CS discipline including no more than one introductory course)*

☐ _____
☐ _____ ☐ _____

**Two advanced courses (min. 6 credits)** *(Select two courses in any one non-CS discipline in consultation with your faculty advisor)*

☐ _____
☐ _____ _____*(Advisor's signature)*

**2. Dual Major: Select one (credits vary)** **See catalog for full requirements**

☐ Early Childhood Education Option
☐ Elementary Education Option
☐ Elementary Special Education

*(Note: completion of student teaching is not required to satisfy requirements for the ACS major, but is required for certification in Education.)*

**3. Teacher Certification (29 credits)** **K-12 Computer Technology Certification**

☐ ESEC 100: Introduction to Teaching
☐ ESEC 150: Dev, Exceptionality & Learning I
☐ ESEC 250: Dev, Exceptionality & Learning II
☐ ESEC 320: Educational Environments/Practices
☐ ESEC 387: Creating Social Context for Learning
☐ ESEC 450: Seminar – Educational Principles
☐ ESEC 465: Student Teaching (Elementary)
☐ ESEC 465: Student Teaching (Secondary)

***For Teacher Certification, please note these specific CS course requirements:**

- CS 161-Microcomputer Systems (1 credit) must be added to CS 160 in the Programming core.
- CS 390-Methods: Computer Education and CS 391-Methods: Field Experience (taken concurrently), and CS 305-Computer Usage in Educational Settings; must be included in the 300-level courses).

**ELECTIVES:** Select additional courses of your choice to bring total number of credits to 126.