2003-2004 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

ENGLISH LANGUAGE COMPETENCE: **Write in/check off courses:**

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

ARTS & HUMANITIES:

A minimum of **five** courses totaling at least **15** 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)

Four courses from Arts & Humanities, including:

- One course in History. **(For teacher certification, a US History course is required)** ☐ _____
- One course in the Fine Arts (ART, FILM, MU or TAD). ☐ _____
- Two additional courses 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 **four** courses totaling at least **12** credits in ☐ _____

three or more of the 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)

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

SCIENCES/MATHEMATICS:

A minimum of **four** courses totaling at least **12** credits, as follows:

- One course in Biology. ☐ _____
- One course in Physical Science (ASTR, CHEM, GEOL, MET, PHYS) ☐ _____
- Two additional courses 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)

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: 42 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: Algebra & Trigonometry *(Higher level mathematics courses may be substituted)*

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

Two advanced courses (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 *(Note: completion of student teaching is not required*
☐ Elementary Education Option *to satisfy requirements for the ACS major, but is*
☐ Secondary Special Education *required for certification in Education.)*

3. Teacher Certification (28 credits) **K-12 Computer Technology Certification**
☐ ESEC 100: Introduction to Teaching ☐ ESEC 387: Creating Social Context for Learning
☐ ESEC 150: Dev, Exceptionality & Learning I ☐ ESEC 450: Seminar – Educational Principles
☐ ESEC 250: Dev, Exceptionality & Learning II ☐ ESEC 465: Student Teaching (Elementary)
☐ ESEC 320: Educational Environments/Practices ☐ ESEC 465: Student Teaching (Secondary)

For Teacher Certification, please note these specific major requirements:

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

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