CSEN – Degree Audit Fall 1995 – Spring 2003

~WWW.CS.COLORADO.EDU~

COMPUTER SCIENCE - CSCI

42 hours*

___ **CSCI 1300** - 4 Introduction to Computer
___ **2270** – 4 Data Structures
___ **3104** – 4 Algorithms
___ **3155** – 4 Prin. of Programming Language (UCB only)
___ **3308** – 3 Software ENGR methods and tools
___ **3434** – 3 Theory of Computation
___ **3656** – 3 Numerical Computation (sub = APPM 4650 or MCEN 4030)
___ **3753** – 4 Operating Systems(UCB only)
___ **4308** – 4 Software ENGR Project I (SR year) (UCB only) or *approved* Senior Thesis CSCI 4950
___ **4318** – 4 Software ENGR Project II (SR year) (UCB only)or *approved* Senior Thesis CSCI 4950

CHOOSE TWO CSCI ELECTIVES(one course must be @ UCB)

___ **CSCI** 3202 – 3 Artificial Intelligence
___ 3287 – 3 Database Systems
___ 4273 – 3 Network Systems
___ 4113 – 3 Unix System Administration
___ 4448 – 3 Object-Oriented Programming and Design
___ 4446 – 3 Nonlinear Dynamics
___ 4555 – 3 Compiler Construction
___ 4753 – 3 Computer Performance Modeling
___ 4830 – 3 Special Topics in CSCI
___ 4229 - 3 Computer Graphics
___ ___ Any UD CSCI (3000-4999) or (5000-5999 with permission)

ELECTRICAL and COMPUTER ENGINEERING – ECEN

13 hours*

___ **ECEN 2120** – 5 Computers as Components
___ **3100** – 5 Digital Logic
___ **4593** – 3 Computer Organization (or CSCI 4593)

MATHEMATICS

19 hours*

___ **APPM 1350** - 4 Calc for ENGR I
___ **1360** - 4 Calc for ENGR II
___ **2350** – 4 Calc III
-or- any Upper Division MATH / APPM (*approved*) _____

___ **APPM 3310** – 3 Matrix Methods and Applications
-or-
MATH 3130 – 3 Intro to Linear Algebra APPM 2360 =OK if CSN prior to Sp 2001
-or-
CSCI 2830 – 3 Linear Algebra with Computer Science Applications

___ **APPM 4570** – 3 Statistical Methods
-or-
MCEN 4120 – 3 ENGR Stats
-or-
Any Upper Division MATH or APPM Statistics or Probability (must be *approved* by CS)

NATURAL SCIENCES

17 hours required
Students entering CSEN Fall 2002 must follow *new* NS requirements ***
Fall 2002 forward MUST complete Physics sequence.

PICK ONE SEQUENCE

___ ***PHYS*** *1110-4-, 1120 – 4 , 1140 – 1 (9 hours)* ***

___ **EPOB** 1210 – 3 , 1220 – 3 , 1230 – 1 and 1240 – 1 (8 hours)
___ **MCDB** 1150 – 3, 1151 –1 , 2150 – 3 (7 hours)
___ **GEOL** 1010 – 3 , 1020 – 3 , 1090 – 1(7 hours)
___ **CHEM** 1051 or higher pairing.

Additional Natural Science Electives (to bring total to 17 hrs)

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NO REMEDIAL SCIENCE ALLOWED***

HUMANITIES and SCOCIAL SCIENCES

24 hours (6 hours must be UD) required

___ **WRTG 3030** – 3 *Writing on Science and Society* **plus**
3 hours upper division Hum/Soc Sci._____
-or-
HUEN 3100 – 3 **and HUEN 3200** – 3 *Humanities for ENGR I & II.*

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FREE ELECTIVES (additional credits needed to bring total to 128)

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NOTICE: - **128 total hours required**.
- last 45 hours must be as EN student.
- GPA must be 2.0+ (cumulative and CSCI/ECEN)
- **NO remedial** course work (Math or Physics below CALC level)
- 6 hour limit on ESL, ROTC, PLC, FINE(studio),EMUS(performance) and PE(activity)
- Pass/Fail for free electives only (16 total / 6 per semester).
- * = number not required - but courses covering listed content.