COLORADO STATE UNIVERSITY
MATHEMATICS MAJOR
CONCENTRATION IN MATHEMATICS OF INFORMATION

NAME: _____CSUID: _____ ADVISER: _____ TERM OF GRAD: _____

LOCAL ADDRESS: _____ ZIP: _____ PH: _____ E-Mail: _____

CORE COURSES (30 credits)

FRESHMAN SEMINAR 2

_____ MATH 192 First-Year Seminar in Mathematical Science [1]
_____ STAT 192 First-Year Seminar in Mathematical Science [1]

COMMUNICATION 6

_____ CO 150 College Composition [3]

Select either:

_____ JTC 300 Prof. and Tech. Comm.* [3]
_____ SPCM 200 Public Speaking [3]

*** Must choose JTC 300 if first entering the university/college on or after July 1, 2008.**

BIOLOGICAL/PHYSICAL SCIENCES 7

Select two courses from Category 3-A.
One must include a lab. Must include two different prefixes.

_____ _____ [ ]
_____ _____ [ ]

ARTS/HUMANITIES 6

Select two courses from Category 3-B

_____ _____ [3]
_____ _____ [3]

SOCIAL/BEHAVIORAL SCIENCES 3

Select one course from Category 3-C

_____ _____ [3]

HISTORICAL PERSPECTIVES 3

Select one course from Category 3-D

_____ _____ [3]

GLOBAL/CULTURAL AWARENESS 3

Select one course from Category 3-E

_____ _____ [3]

The program of study shown is subject to approval by the University Curriculum Committee

MATHEMATICAL SCIENCES (77 credits)

(Grade of C or higher required in all Mathematics, Computer Science, Statistics, ECE courses in this column).

MATHEMATICS 34

____ MATH 160 Calc for Physical Scientists I [4]
____ MATH 161 Calc for Physical Scientists II [4]
____ MATH 229 Matrices and Linear Equations [2]
____ MATH 261 Calc for Physical Scientists III [4]
____ MATH 317 Advanced Calc. Of One Variable [4]
____ MATH 345 Differential Equations [4]
____ MATH 301 Intro to Combinatorial Theory [3]
____ MATH 360 Mathematics of Info Security [3]
____ MATH 369 Linear Algebra [3]
____ MATH 460 Information and Coding Theory (Capstone) [3]

COMPUTER SCIENCE 8

____ CS 200 Algorithms and Data Structures [4]

Select **4 credits** from: CS 160; or CS 155, CS 156 and any two of CS 157, MATH 151, MATH 152, MATH/CS 158.

_____ _____ [___]
_____ _____ [___]
_____ _____ [___]
_____ _____ [___]

STATISTICS 9

_____ STAT 315 Statistics for Engr & Sci [3]
_____ STAT 340 Multiple Regressive Analysis [3]
_____ STAT 321 Elem Prob., Stoch. Models [3]

ELECTRICAL ENGINEERING 14

_____ ECE 102 Digital Circuit Logic [4]
_____ ECE 251 Intro to Microprocessors [4]
_____ ECE 311 Linear System Analysis I [3]
_____ ECE 421 Telecommunications I [3]

ECE - MATH SCIENCE ELECTIVES 12

Select **12** credits from (a) and (b) below.
Must include at least 6 credits from (a).

a) Upper-division mathematics **except** courses ending in -80 to -99 and MATH 315.
b) Upper-division Computer Science, Electrical Engineering, Mathematics, or Statistics **except** courses ending in -80 to -99.

_____ _____ [___]
_____ _____ [___]
_____ _____ [___]

ADDITIONAL COURSES (13 credits)

UNRESTRICTED ELECTIVES 13

_____ _____ [___]
_____ _____ [___]
_____ _____ [___]
_____ _____ [___]
_____ _____ [___]
_____ _____ [___]

GRADUATION REQUIREMENTS

Total credits…….. [___]
(at least 120 credits)
Upper-Division credits……. [___]
(at least 42 credits)
CSU Grade Point Average…… [___]
(at least 2.0)

MATH 117, MATH 118, MATH 124, MATH 125 and MATH 126 are considered by the Department of Mathematics to be review courses. Credits in these courses may not be used as part of a degree in math.

Transfer students must complete a minimum of 9 upper-division credits in mathematics at CSU, excluding MATH 315, MATH 340, and mathematics courses ending in -80 to -99.

See the Colorado State University General Catalog for a complete statement of graduation requirements. Visit the Math Department web site for information on updated courses and requirements: www.math.colostate.edu

Fall 2007 - REVISED 6/16/08

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