COLORADO STATE UNIVERSITY
MATHEMATICS MAJOR
CONCENTRATION IN APPLIED MATHEMATICS

NAME: _____ CSUID: _____ ADVISER: _____ TERM OF GRAD: _____

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

CORE COURSES (36 credits)

FRESHMAN SEMINAR **2**

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

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

COMMUNICATION **6**

_____ CO150 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 **13-15**

_____ PH 141 Physics-Sci & Engr I [5]

_____ PH 142 Physics-Sci & Engr II [5]

Select one science course from Category 3-A in a department other than physics.

_____ _____ [3-5]

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]

FALL 2007 – Revised 6/16/08

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MATHEMATICAL SCIENCES (59 credits)

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

MATHEMATICS **43**

____ 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 301 Intro to Combinatorial Theory [3]

____ MATH 317 Advanced Calc of One Variable [4]

____ MATH 345 Differential Equations [4]

____ MATH 450 Intro to Numerical Analysis I [3]

____ MATH 451 Intro to Numerical Analysis II [3]

____ MATH 369 Linear Algebra [3]

____ MATH 435 Projects in Applied Math (Capstone) [3]

Select either:

____ MATH 332 Intro to Partial Differential Equations [3]

____ MATH 417 Advanced Analysis [3]

OR

____ MATH 360 Mathematics of Information Security [3]

____ MATH 460 Information and Coding Theory [3]

COMPUTER SCIENCE **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 **6**

____ STAT 315 Statistics for Engr & Sci [3]

One of STAT 350, STAT 340, or STAT 321

____ _____ [3]

MATH SCIENCE ELECTIVE **6**

Select an additional 6 credits from upper-division (300 level or higher) in Computer Science, Statistics, or Math **excluding** numbers ending in -80 to -99 and MATH 315.

_____ _____ [3]

_____ _____ [3]

ADDITIONAL COURSES (25 credits)

RELATED AREAS **12**

A coherent set of courses outside the Mathematics Department in which mathematics is applied; approved by the Associate Chair (over for more information).

____ _____ [__]

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____ _____ [__]

____ _____ [__]

____ _____ [__]

UNRESTRICTED ELECTIVES **13**

_____ _____ [__]

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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