COLORADO STATE UNIVERSITY  
MATHEMATICS MAJOR  
CONCENTRATION IN APPLIED MATHEMATICS

| NAME: ______________________________ | CSUID: ___________________ | ADVISER: __________________ | TERM OF GRAD: _______ |
| LOCAL ADDRESS: ______________________________ | ZIP: __________ | PH: ______________ | E-Mail: __________________________ |

### CORE COURSES (35 credits)

**FRESHMAN SEMINAR**
- MATH 192 First-Year Seminar in Mathematical Sciences [1]

**COMMUNICATION**
- CO150 College Composition [3]
- JTC 300 Prof. And Tech. Comm. [3]

**BIOLOGICAL/PHYSICAL SCIENCES** [13]
- PH 142 Physics-Sci & Engr II [5]

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

**ARTS/HUMANITIES** [6]
Select two courses from Category 3B

**SOCIAL/BEHAVIORAL SCIENCES** [3]
Select one course from Category 3C

**HISTORICAL PERSPECTIVES** [3]
Select one course from Category 3D

**GLOBAL/CULTURAL AWARENESS** [3]
Select one course from Category 3E

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**MATHEMATICAL SCIENCES** (58 credits)
(Grade of C or higher required in all Mathematics, Computer Science, Statistics courses in this column).

- MATH 160 Calc for Physical Scientists I [4]
- MATH 161 Calc for Physical Scientists II [4]
- MATH 235 Intro to Math Reason [2]
- MATH 261 Calc for Physical Scientists III [4]
- MATH 369 Linear Algebra [3]
- MATH 301 Intro to Combinatorial Theory [3]
- MATH 317 Advanced Calc of One Vari. [3]
- MATH 450 Intro to Numerical Analysis I [3]
- MATH 451 Intro to Numerical Analysis II [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 Info Security [3]
- MATH 460 Information & Coding Theory [3]

**COMPUTER SCIENCE** [4]
Select 4 credits from: CS 163 OR CS 164; or CS 155, CS 156 and any two of CS 157, MATH 151, MATH 152, MATH/CS 158.

- ____________________________ [__]  
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- ____________________________ [__]  
- ____________________________ [__]  

**STATISTICS** [6]

One of STAT 341, STAT 400, or STAT 420

- ____________________________ [__]  
- ____________________________ [__]  

**MATH SCIENCE ELECTIVE** [6]
Select an additional 6 credits from upper-division (300 level or higher) in Computer Science, Statistics, or Math excluding courses ending in -80 to -99.

- ____________________________ [__]  
- ____________________________ [__]  

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**RELATED AREAS** [12]
A coherent set of courses outside the Mathematics Department in which mathematics is applied; approved by the Associate Chair (see next page for more information).

- ____________________________ [__]  
- ____________________________ [__]  
- ____________________________ [__]  
- ____________________________ [__]  
- ____________________________ [__]  

**UNRESTRICTED ELECTIVES** [15]
- ____________________________ [__]  
- ____________________________ [__]  
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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 can only be counted as unrestricted electives toward any Math degree.

Transfer students must complete a minimum of 9 upper-division credits in mathematics at CSU, excluding 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

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