

**COLORADO STATE UNIVERSITY  
MATHEMATICS MAJOR  
CONCENTRATION IN APPLIED MATHEMATICS**

NAME: \_\_\_\_\_ CSUID: \_\_\_\_\_ ADVISER: \_\_\_\_\_ TERM OF GRAD: \_\_\_\_\_

LOCAL ADDRESS: \_\_\_\_\_ ZIP: \_\_\_\_\_ PH: \_\_\_\_\_ E-Mail: \_\_\_\_\_

<b>CORE COURSES</b> (35 credits)	<b>MATHEMATICAL SCIENCES</b> (58 credits) (Grade of C or higher required in all Mathematics, Computer Science, Statistics courses in this column).	<b>ADDT'L COURSES</b> (27 credits)
<b>FRESHMAN SEMINAR</b> <u>1</u> _____ MATH 192 First-Year Seminar in Mathematical Sciences [1]	<b>MATHEMATICS</b> <u>33</u> _____ 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 317 Advanced Calc of One Vari. [3] _____ MATH 340/345 Differential Equations [4] _____ MATH 450 Intro to Numerical Analysis I [3] _____ MATH 451 Intro to Numerical Analysis II [3] _____ MATH 435 Projects in Applied Math (Capstone) [3]	<b>RELATED AREAS</b> <u>12</u> 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). _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/>
<b>COMMUNICATION</b> <u>6</u> _____ CO150 College Composition [3] _____ JTC 300 Prof. And Tech. Comm. [3]	_____ MATH 340/345 Differential Equations [4] _____ MATH 450 Intro to Numerical Analysis I [3] _____ MATH 451 Intro to Numerical Analysis II [3] _____ MATH 435 Projects in Applied Math (Capstone) [3]	<b>UNRESTRICTED ELECTIVES</b> <u>15</u> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/>
<b>BIOLOGICAL/PHYSICAL SCIENCES</b> <u>13</u> _____ 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]	<b>Select two of</b> <u>6</u> _____ MATH 301 Intro to Combinatorial Theory [3] _____ MATH 331 Intro to Math Modeling [3] _____ MATH 332 Partial Differential Equations [3] _____ MATH 360 Mathematics of Info Sec. [3]	
<b>ARTS/HUMANITIES</b> <u>6</u> Select two courses from Category 3B _____ [3] _____ [3]	<b>Select one of</b> <u>3</u> _____ MATH 417 Advanced Analysis [3] _____ MATH 419 Intro to Complex Variables [3] _____ MATH 430 Fourier & Wavelet Analysis [3] _____ MATH 460 Information & Coding Theory [3]	
<b>SOCIAL/BEHAVIORAL SCIENCES</b> <u>3</u> Select one course from Category 3C _____ [3]	<b>COMPUTER SCIENCE</b> <u>4</u> Select <b>4 credits</b> from CS 150 [3], CS 152 [2], CS 163 [4], CS 164 [4], MATH 151 [1], MATH 152 [1], and MATH/CS 158 [1]. _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/>	<b>GRADUATION REQUIREMENTS</b> Total credits..... <input type="checkbox"/> (at least 120 credits) Upper-Division credits..... <input type="checkbox"/> (at least 42 credits) CSU Grade Point Average..... <input type="checkbox"/> (at least 2.0)
<b>HISTORICAL PERSPECTIVES</b> <u>3</u> Select one course from Category 3D _____ [3]	<b>STATISTICS</b> <u>3</u> _____ STAT 315 Statistics for Engr & Sci [3]	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.
<b>GLOBAL/CULTURAL AWARENESS</b> <u>3</u> Select one course from Category 3E _____ [3]	<b>MATH SCIENCE ELECTIVE</b> <u>9</u> Select an additional 9 credits from upper-division (numbered 300/higher) in Mathematics, Computer Science, Stats <b>excluding</b> courses ending in -80 to -99. _____ [3] _____ [3] _____ [3]	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: <a href="http://www.math.colostate.edu">www.math.colostate.edu</a>

COLORADO STATE UNIVERSITY  
MATHEMATICS MAJOR  
CONCENTRATION OF APPLIED MATHEMATICS (AMTZ)

Request for Approval of Related Area in Applied Mathematics

Name \_\_\_\_\_ Advisor \_\_\_\_\_ Graduation Date \_\_\_\_\_

Local Address \_\_\_\_\_ Phone: \_\_\_\_\_

CSU ID \_\_\_\_\_ EMAIL \_\_\_\_\_

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RELATED AREA (12 credits): A coherent set of courses outside the Mathematics Department in which Mathematics is applied; to be approved by the Associate Chair.

TERM/YEAR	COURSE	CRDS	GRADE
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

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Additional information which may be helpful in approving the above courses—in particular, how is MATH applied, if the class has no (implicit) MATH Pre-requisite.

Student Signature \_\_\_\_\_ Date \_\_\_\_\_

Advisor Signature \_\_\_\_\_ Date \_\_\_\_\_

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Approved: \_\_\_\_\_ Disapproved: \_\_\_\_\_ Additional Information Requested \_\_\_\_\_

Associate Chair Signature \_\_\_\_\_ Date \_\_\_\_\_