

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

NAME: \_\_\_\_\_ ADVISER: \_\_\_\_\_ DATE OF GRAD.: \_\_\_\_\_  
 LOCAL ADDRESS: \_\_\_\_\_ ZIP: \_\_\_\_\_ PHONE: \_\_\_\_\_ EMAIL: \_\_\_\_\_

CORE COURSES (38-44 CREDITS)	MATH SCIENCES (60 CREDITS) (Grade of C or higher required in every Math, Computer Science & Statistics course in this column.)	ADDITIONAL COURSES (16-22 CREDITS)
CC = Core Curriculum		
<b>FRESHMAN SEMINARS</b> <span style="float: right;"><u>2-3</u></span> Select one or two courses: (M CC192 and STCC 192 are recommended): _____ _____	<b>MATHEMATICS</b> <span style="float: right;"><u>45</u></span> ____ M CC 160 Calc for Phys Sci I [4] ____ M CC 161 Calc for Phys Sci II [4] ____ M229 Matrices & Lin Eq in Sci [2] ____ M261 Calc for Phys Sci III [4] ____ M301 Intro to Comb Theory [3] ____ M317 Adv Calc of One Var. [4] ____ M345 Differential Equations [4] ____ M350 Intro to Num Analysis I [4] ____ M351 Intro to Num Analysis II [4] ____ M369 Linear Algebra [3] ____ M435 Projects in Applied Math [3] (Capstone)	<b>RELATED AREA</b> <span style="float: right;"><u>12</u></span> A coherent set of courses outside the Mathematics Department in which mathematics is applied <b>approved by the Coordinator of the Applied Mathematics Concentration</b> (over for more information). _____ _____ _____ _____ _____ _____
<b>COMMUNICATION SKILLS</b> <span style="float: right;"><u>6-8</u></span> ____ COCC 150 College Composition [3]  Select one course from CC II-B _____ _____ [3-5]	<b>Select either:</b> ____ M332 Intro to Partial Diff Eqns [3] ____ M417 Advanced Analysis [3] <b>OR</b> ____ M366 Intro to Abstract Algebra [3] ____ M460 Info Integrity Security [3] <b>COMPUTER SCIENCE</b> <span style="float: right;"><u>6</u></span> ____ CSCC 151 C++ for Scientists and Engineers [4] ____ CS154 C++ to Java Prog Mod [2] <b>STATISTICS</b> <span style="float: right;"><u>6</u></span> ____ STCC 309 Engineering Statistics [3] <b>One of</b> ST302, ST304, or ST321 _____ _____ [3]	<b>UNRESTRICTED ELECTIVES</b> <span style="float: right;"><u>4-10</u></span> _____ _____ _____ _____ _____ _____ _____ _____ _____ _____
<b>NATURAL SCIENCES</b> <span style="float: right;"><u>13-15</u></span> ____ PHCC 141 Physics I [5] ____ PHCC 142 Physics II [5]  Select one science course in a department other than physics. _____ _____ [3-5]	<b>COMPUTER SCIENCE ELECTIVE</b> <span style="float: right;"><u>3</u></span> Select an additional 3 credits from upper division ( <b>300 level or higher</b> ) in Computer Science, Statistics or Math <b>excluding</b> numbers ending in -80 to -99 and M CC315 _____ _____ [3]	<b>GRADUATION REQUIREMENTS</b> Total Credits ..... [____] (At least 120 credits) Upper-Division Credits ..... [____] (At least 45 credits) CSU Grade Point Average ..... [____] (At least 2.0)
<b>ARTS and HUMANITIES</b> <span style="float: right;"><u>3</u></span> Select one course from CC IIIB. _____ _____ [3]	<b>MINOR AND/OR SECOND MAJOR</b>  MINOR: _____  SECOND MAJOR: _____	M120, M121, M124, M125 and M126 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 M315, M340/M345, and mathematics courses ending in -80 to -99. See Colorado State University General Catalog for 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> FALL 2000 – REVISED 9/26/00
<b>SOCIAL SCIENCES</b> <span style="float: right;"><u>3</u></span> Select one course from CC IIIC. _____ _____ [3]	<b>The program of study shown is subject to approval by the University Curriculum Committee</b>	
<b>HISTORY</b> <span style="float: right;"><u>3</u></span> Select one course from CC IIID. _____ _____ [3]		
<b>GLOBAL AWARENESS</b> <span style="float: right;"><u>3</u></span> Select one course from CC IIIE. _____ _____ [3]		
<b>PUBLIC VALUES *</b> <span style="float: right;"><u>3</u></span> Select one course from CC IIIF. _____ _____ [3]		
<b>WELLNESS</b> <span style="float: right;"><u>2-3</u></span> Select one course from CC IIIG. _____ _____ [3]		

\* Several Public Value courses may be double counted in one other area

The Concentration in Applied Mathematics requires 12 or more credits in a coherent set of courses outside the Mathematics Department approved by the Coordinator of the Concentration in Applied Mathematics. **We recommend that you have the courses you plan to take in the related area approved before you take the courses.** Get a form for requesting approval of courses for your related area from the Mathematics Department office (Rm. 121 Engineering).

There are many coherent sets of courses suitable for the Concentration in Applied Mathematics. Here are some popular combinations that are sure to be approved.

1. Any combination of PH / PHCC courses numbered greater than PHCC142.
2. Any combination of CS/CSCC courses and/or ST/STCC courses, in addition to credits used in column 2 under the Computer Science, Statistics or Mathematical Sciences Electives.
3. Any combination of AE, AT, CH, EE, EG, ES courses and/or CE courses numbered CE260 or greater.
4. Any combination of BA, BD and BQ courses numbered 200 or greater.
5. Any combination of EA and/or EC courses (in addition to credits used in column 1 under Behavioral and Social Sciences).
6. Any combination of C/C CC courses numbered greater than C CC107.

We urge you to select courses that reflect your interests and goals to satisfy the related area requirements in your program of study. The sets of courses listed are not the only possibilities.

Professor James Thomas, Coordinator  
Applied Mathematics Concentration

FALL 2000