Department of Mathematics, University of California, San Diego

PRELIMINARY DEGREE CHECK
MAJOR in APPLIED MATHEMATICS (MA27)

Name: ___________________________ PID: ___________________________
Admit quarter: ___________________ Graduating Quarter: __________________________________________ Major GPA: ___________________________

Lower-Division Requirements

Mathematics (24 units total):
1. Math 20A Calc for Sci & Eng .........
2. Math 20B Calc for Sci & Eng .........
4. Math 20D Intro to Diff. Eqs .........
5. Math 20E/31CH Vector Calculus .........
6. Math 20F/31AH Linear Algebra .........

Programming - one of the following:
- MAE 9 C/C++ Programming .........
- CSE 8A-AL-B Intro to Comp Sci: Java .........
- CSE 11 Intro to Comp Sci: Java .........
  (Accelerated Pace)

Upper-Division Requirements (13)

At least 13 upper-division courses must be completed in Mathematics as outlined below, except:

a) Up to 3 courses may be outside the department in an approved applied mathematical area. A petition approved by an applied math advisor is required. No such units may also be used for a minor or program of concentration.

b) MAE 107, Econ 120A-B-C, Math 195-199 cannot be counted toward the upper division requirement.

1. Math 109 Mathematical Reasoning (should be taken in sophomore year)
2. One of the following:
   - Math 102 Applied Linear Algebra OR Math 170A Intro to Numerical Analysis
3. One of the following calculus sequences:
   (should be taken in junior year)
   - Math 140A-B Foundations of Real Analysis OR Math 142A-B Introduction to Analysis.
4. Applied Math Sequence:
   - Math 180A-B-C-181A Probability & Statistics OR Math 180A-181A and any two from 181B-C-E OR (Math 183 or Math 180A-181A) and any three from 170A-B-C-175-179 Numerical Methods
5. One additional sequence from the above list or from the following:
   - Math 110A-120A-130A PDE, Complex Analysis, ODE
   - Math 120A-B Complex Analysis
   - Math 130A-110B DEs, Elements of PDE & Int Eqns
   - Math 152-154, Math & Comp/Discrete Math
   - Math 152-184A, Math & Comp/Combinatorics
   - Math 154-184A , Discrete Math/ Combinatorics
   - Math 155A-B Computer Graphics
   - Math 171A-B Mathematical Programming
   - Math 193A Actuarial Math
6. Upper-division Electives - to complete 13 upper-div 4 unit courses

Mathematics Department Evaluation

Comments:

Advisor: __________________________
Date: __________________________

13. 2010-2011