

Department of Mathematics, University of California, San Diego

PRELIMINARY DEGREE CHECK JOINT MAJOR in MATHEMATICS & ECONOMICS (MA33)

Name: _____

PID: _____

Admit quarter: _____

Graduating Quarter: _____

Major GPA: _____

Lower-Division Requirements

Mathematics (20 units total):

1. Math 20A Calc for Sci & Eng
2. Math 20B Calc for Sci & Eng
3. Math 20C/31BH Calc & Analyt. Geom
4. Math 20D Intro to Diff. Eqns
5. Math 20F/31AH Linear Algebra

Economics (12 units total):

1. Econ 1 Microeconomics
2. Econ 2 Macroeconomics(optional)
3. Econ 3 Macroeconomics

Upper-Division Requirements - 15 courses

Requires a total of 15 upper-division courses in Mathematics and Economics, with a minimum of 7 courses in each department chosen from the courses listed below:

Mathematics:

1. Math 109 Mathematical Reasoning
2. One of the following:
Math 102 Applied Linear Algebra OR
Math 100A-B Algebra OR
Math 170A Numerical Linear Algebra
3. One of the following:
Math 140A Foundations of Real Analysis I OR
Math 142A Introduction to Analysis I
4. At least one of the following:
Math 130A Ordinary Differential Equations OR
Math 140B Foundations of Real Analysis II OR
Math 142B Introduction to Analysis II

Economics:

5. Econ 100A-B-C Microeconomics
6. One of the following three-course sequences :
Econ 120A-B-C Econometrics OR
Math 180A and Econ 120B-C OR
Math 180A and Math 181A and Econ 120C
(Duplication of credit: Math 180A & Econ 120A;
Math 181A & Econ 120B)
7. One of the following two-course sequences:
Econ 110A-B Macroeconomics OR
Math 171A-B Intro to Numerical Optimization OR
Any two courses from the following:
Econ 171 Decisions Under Uncertainty OR
Econ 172A-B Intro to Operations Research

1. Math _____ 109 (4 units)
2. Math _____ (4 units)
3. Math _____ (4 units)
4. Math _____ (4 units)
- Math _____ (4 units)
- Math _____ (4 units)
- Math _____ (4 units)
- Math _____ (4 units)

- optional if taking 8 U-D Econ)

5. Econ _____ (4 units)
- Econ _____ (4 units)
- Econ _____ (4 units)
6. Econ _____ (4 units)
- Econ _____ (4 units)
7. Econ _____ (4 units)
- Econ _____ (4 units)
- Econ _____ (4 units)

- optional if taking 8 U-D Econ)

Mathematics Department Evaluation

Comments: _____

Advisor: _____

Date: _____