

# Department of Mathematics, University of California, San Diego

## PRELIMINARY DEGREE CHECK MAJOR in MATHEMATICS (MA29)

Name: \_\_\_\_\_ PID: \_\_\_\_\_

Admit quarter: \_\_\_\_\_ Graduating Quarter: \_\_\_\_\_ Major GPA: \_\_\_\_\_

### Lower-Division Requirements

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|---|--|
| 1. Math 20A Calc for Sci & Eng .....      | 4. Math 20D Intro to Diff. Eqs .....   |
| 2. Math 20B Calc for Sci & Eng .....      | 5. Math 20E/31CH Vector Calculus ..... |
| 3. Math 20C/31BH Calc & Analy. Geom ..... | 6. Math 20F/31AH Linear Algebra .....  |

To be well prepared for upper-division courses, students should complete the last three quarters of the 20 sequence and Math 109 before the end of their sophomore year.

### Upper-Division Requirements (13)

A total of 13 one quarter courses of upper-division mathematics courses, including:

1. Math 109 Mathematical Reasoning (spring quarter of sophomore year)
2. Math 140A-B Foundations of Real Analysis  
OR Math (142A-B, Introduction to Analysis and Math 120A, Complex Analysis)
3. Math 100A-B Abstract Algebra  
OR Math (103A-B, Modern Algebra and Math 102)
4. Math Electives - to complete 13 upper-div 4 unit courses

**Notes:**

Either Math 140A-B (142A-B & 120A) or 100A-B (103A-B & 102) should be taken during junior year. As with all departmental requirements, more advanced courses on the same material may be submitted with written approval from the department advisor.

### Course Selections

1. Math \_\_\_\_\_ 109 (4 units) .....
2. Math \_\_\_\_\_ (4 units) .....
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3. Math \_\_\_\_\_ (4 units) .....
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### Mathematics Department Evaluation

Comments: \_\_\_\_\_

Advisor: \_\_\_\_\_

Date: \_\_\_\_\_