

**A minimum of 125 credits is needed for graduation (or 127 if MA 011 is taken).  
 This major requires a minimum 43 credits. Some major courses may also fulfill Core Requirements.**

Requirements for B. S. Degree  
**Major in MATHEMATICS**  
 Academic Year 2009 – 2010

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

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

| Mathematics Major Required Courses |     |                                  | Credits | Grade | Term  |
|------------------------------------|-----|----------------------------------|---------|-------|-------|
| MA                                 | 121 | Calculus I                       | 4.00    | _____ | _____ |
| MA                                 | 122 | Calculus II                      | 4.00    | _____ | _____ |
| MA                                 | 222 | Calculus III                     | 4.00    | _____ | _____ |
| MA                                 | 201 | Linear Algebra                   | 3.00    | _____ | _____ |
| MA                                 | 235 | Discrete Mathematics with Proofs | 4.00    | _____ | _____ |
| MA                                 | 301 | Abstract Algebra                 | 4.00    | _____ | _____ |
| MA                                 | 351 | Theory of Probability            | 4.00    | _____ | _____ |
| MA                                 | 421 | Real Analysis                    | 4.00    | _____ | _____ |
| CS                                 | 121 | Computer Science I               | 4.00    | _____ | _____ |

**Note: Acceptable Math Electives are Math courses numbered 251 and above.**

**Applied Mathematics Concentration**

|    |     |                     |      |       |       |
|----|-----|---------------------|------|-------|-------|
| CS | 122 | Computer Science II | 4.00 | _____ | _____ |
|----|-----|---------------------|------|-------|-------|

Take 3 of the following offered Electives:

|    |     |                         |      |       |       |
|----|-----|-------------------------|------|-------|-------|
| MA | 321 | Differential Equations  | 4.00 | _____ | _____ |
| MA | 331 | Operations Research     | 3.00 | _____ | _____ |
| MA | 352 | Mathematical Statistics | 3.00 | _____ | _____ |
| MA | 362 | Numerical Analysis      | 3.00 | _____ | _____ |

|    |       |       |     |       |       |
|----|-------|-------|-----|-------|-------|
| MA | _____ | _____ | 3/4 | _____ | _____ |
|----|-------|-------|-----|-------|-------|

|     |     |       |      |       |       |
|-----|-----|-------|------|-------|-------|
| PHY | 200 | _____ | 4.00 | _____ | _____ |
|-----|-----|-------|------|-------|-------|

*(Satisfies one of the two required Natural and Physical Science Core Requirements)*

**Pure Mathematics Concentration**

|    |     |                   |      |       |       |
|----|-----|-------------------|------|-------|-------|
| MA | 425 | Complex Variables | 3.00 | _____ | _____ |
| MA | 441 | Topology          | 3.00 | _____ | _____ |

|    |       |       |     |       |       |
|----|-------|-------|-----|-------|-------|
| MA | _____ | _____ | 3/4 | _____ | _____ |
| MA | _____ | _____ | 3/4 | _____ | _____ |

**No Specific Concentration**

|    |       |       |     |       |       |
|----|-------|-------|-----|-------|-------|
| MA | _____ | _____ | 3/4 | _____ | _____ |
| MA | _____ | _____ | 3/4 | _____ | _____ |
| MA | _____ | _____ | 3/4 | _____ | _____ |
| MA | _____ | _____ | 3/4 | _____ | _____ |