

**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 2006 – 2007

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 | _____ | _____ |
|----|-------|-------|-----|-------|-------|