

COLLEGE OF ARTS AND SCIENCES
 KENT STATE UNIVERSITY
 BACHELOR OF SCIENCE DEGREE
 MAJOR REQUIREMENT SHEET
 2004-05 UNDERGRADUATE CATALOG

NAME: _____

ID NUMBER: _____

DATE: _____

SUMMARY OF B.S. GENERAL GRADUATION REQUIREMENTS (see catalog for additional details)

- Minimum of 121 total hours, 42 upper division hours
- Minimum of 2.00 cumulative GPA and 2.00 GPA in major(s)/minor(s)
- Maximum of 12 pass/fail hours
- Residency Requirement - First 91 or last 30 hours must be completed at Kent State University
- Writing-Intensive Requirement
- Participation in outcomes assessment conducted by your major program

College General Requirements (includes University LER's)

- English Composition 6 hours
- Mathematics/Logic 3-5 hours
- Foreign or American Sign Language 8 hours
- Humanities/Fine Arts 9 hours
- Social Sciences 9 hours
- Basic Sciences 9 hours
- Diversity 6 hours
- University Orientation 1 hour

NO COURSEWORK IN YOUR MAJOR MAY BE TAKEN PASS/FAIL
 See the back of this page for a BS General Requirement Sheet

Core courses:

| | | | |
|--|--------|-----|---|
| MATH Analytic Geometry & Calculus I | *12002 | ___ | 5 |
| MATH Analytic Geometry & Calculus II | 12003 | ___ | 5 |
| MATH Linear Algebra with Applications | 21001 | ___ | 3 |
| MATH Analytic Geometry & Calculus III | 22005 | ___ | 3 |
| MATH Intro. to Ordinary Differential Equations | 32044 | ___ | 3 |
| MATH Intro to Prob Theory & Applications | 40011 | ___ | 3 |
| M&TH Intro to Statistical Concepts | 40012 | ___ | 3 |
| MATH Theory of Matrices | 41021 | ___ | 3 |
| MATH Mathematical Models & Dynamical Systems | 42031 | ___ | 3 |
| MATH Seminar: Modeling Projects | 42091 | ___ | 3 |
| MATH Introduction to Numerical Computing I | 42201 | ___ | 3 |
| MATH Introduction to Numerical Computing II | 42202 | ___ | 3 |
| CS Intro to Computer Science | 10051 | ___ | 4 |
| CS Intro to Object-Oriented Programming | 23021 | ___ | 3 |
| PHY Gen University Physics I | 23101 | ___ | 5 |
| PHY Gen University Physics II | 23102 | ___ | 5 |

Plus one of the following concentrations.....15

APPLIED MATHEMATICS (BS AMTH AAA)

| | | | |
|--|-------|-----|---|
| MATH Advanced Calculus | 42041 | ___ | 3 |
| MATH Intro to Partial Differential Equations | 42045 | ___ | 3 |
| MATH Intro to Complex Variables | 42048 | ___ | 3 |
| **Allied area electives..... | | | 6 |
| _____ | | | |
| _____ | | | |

COMPUTATIONAL MATHEMATICS (BS AMTH BAA)

| | | | |
|------------------------------|-------|-----|---|
| MATH Discrete Mathematics | 31011 | ___ | 3 |
| CS Data Structures | 33001 | ___ | 3 |
| **Allied area electives..... | | | 9 |
| _____ | | | |
| _____ | | | |
| _____ | | | |

PROBABILITY AND STATISTICS (BS AMTH CAA)

| | | | |
|--|-------|-----|---|
| MATH Topics in Probability Theory and Stochastic Processes | 40051 | ___ | 3 |
| <i>Choose one from:</i> | | | |
| MATH Statistical Methods for Experiments | 40041 | ___ | 3 |
| MATH Sampling Theory | 40042 | ___ | 3 |
| **Allied area electives..... | | | 9 |
| _____ | | | |
| _____ | | | |
| _____ | | | |

FINANCIAL MATHEMATICS BS AMTH DAA

| | | | |
|--|-------|-----|---|
| ACCT Introduction to Financial Accounting | 23020 | ___ | 3 |
| FIN Business Finance | 36053 | ___ | 3 |
| MATH Topics in Probability Theory and Stochastic Processes | 40051 | ___ | 3 |
| MATH Introduction to Partial Differential Equations | 42045 | ___ | 3 |
| **Allied area electives..... | | | 3 |
| _____ | | | |

TOTAL MAJOR HOURS.....72

*Math 12001, which is a prerequisite for MATH 12002, should be bypassed by students with sufficient background.

**Selected from approved upper-division courses for majors in BSCI, CHEM, CS, MATH, or PHY in consultation with the student's major adviser.