

## B.S. in MATHEMATICS with Option in Industrial Mathematics

Name \_\_\_\_\_

ID# \_\_\_\_\_

Advisor \_\_\_\_\_

### CORE: 61 HOURS

Area A (9 hrs)	Hrs	Term	Grade
ENGL 1101 Composition I (min grade C)	3		
ENGL 1102 Composition II (min grade C)	3		
MATH 1113 Precalculus (min grade C)	3		

Area B (4 hrs.min)	Hrs	Term	Grade
CIS 1000	2		
COMM 1110	3		
ENGL 2200	3		
SOCI 2295	2		
SOSC 1000, SOSC 1101, GEOG 1101	2/3		
THEA 1110	3		
WMST 2001	3		
Foreign Language (2000 or higher)	3		

Area C (6 hrs)	Hrs	Term	Grade
ENGL 2110 or ENGL 2120 or ENGL 2130	3		
<b>Select one:</b>	3		
ARTC 1100, MUSC 1100, or THEA 1100			

Area D (12 hrs) <small>Area D Lists</small>	Hrs	Term	Grade
MATH 1120 Calculus I (min grade C)	4		
<b>One lab sequence from list A recommended*</b>	8		
PHYS 1111/1112 Introductory Physics I/II			
PHYS 2211/2212 Principles of Physics I/II*			

Area E (12 hrs)	Hrs	Term	Grade
POLS 1101 American Government	3		
HIST 1111 or 1112 World Civilization I or II	3		
HIST 2111 or 2112 US History I or II	3		
<b>Select one:</b>	3		
ECON 2105, SOCI 1101			
HIST 1111 or 1112,			
PSYC 1101 or ANTH 1102			

Area F (18 hrs)	Hrs	Term	Grade
CSCI 1301 Intro Programming I	4		
MATH 2221 Calculus II	4		
MATH 2222 Calculus III	4		
MATH 2223 Discrete Systems I	3		
MATH 2224 Discrete Systems II	3		

Physical Education (4 hrs)	Hrs	Term	Grade
PEDS 1010 Lifetime Fitness	1		
PEDS 2000 CPR/First Aid	2		
PEDS _____ (Activity)	1		
<b>(Activity must be swimming if swimming test not passed)</b>			

Additional Requirements	Hrs	Term	Grade
UNIV 1000 _____			
GA HISTORY _____			
GA CONSTITUTION _____			
REGENT'S READING _____			
GEOGRAPHY _____			
US HISTORY _____			
US CONSTITUTION _____			
REGENT'S WRITING _____			
SWIMMING _____			

### MAJOR/ELECTIVE REQUIREMENTS: 59 HOURS

Major Requirements (31 hrs)	Hrs	Term	Grade
CSCI 1302 Intro Programming II	4		
MATH 3313 Differential Equations	3		
MATH 3325 Mathematical Statistics	3		
MATH 4440 Partial Differential Equations	3		
MATH 4454 Industrial Mathematics I	3		
MATH 4455 Industrial Mathematics II	3		
<b>Select one sequence:</b>	6		
MATH 3316/3317 Analysis I/II			
MATH 4412/4413 Modern Algebra I/II			
MATH 4450/4451 Topology I/II			
<b>Select two courses:</b>	6		
MATH 3320 Scientific Computation			
MATH 3322 Adv Mathematical Modeling			
MATH 4442 Complex Analysis			
*MATH 4499 Senior Honors Thesis			

Free Electives (10 hrs)	Hrs	Term	Grade
Free Elective	4		
Free Elective	3		
Free Elective	3		

**This major requires a minor.** Minor Fields

Approved Minor (18 hrs)	Hrs	Term	Grade
18 Hours of upper division work, beyond the core, in a university discipline that offers a bachelor's program.			
For minors requiring less than 18 hours, the difference will be assigned to extra elective hours.			
	3		
	3		
	3		
	3		
	3		
	3		

Degree Checklist:
_____ Application for graduation
_____ Exit Interview
_____ GRE or dept approved graduate level exam

ADDITIONAL REQUIREMENTS:
Minimum grade of "C" required in <b>Area F</b> and all major courses.
* Registration for this class is by department invitation.

UNIVERSITY REQUIREMENTS:
A <u>minimum</u> of 120 semester hours must be completed for graduation.
39 semester hours must be upper division work at the 3000-4000 level.
Students entering prior to fall 2002 are required to pass a test of geographic knowledge or to earn a passing grade in one of the following courses: SOSC 1000, SOSC 1101, GEOG 1101, GEOG 4550, POLS 4550.
Students entering fall 2002 or later do not have to meet this requirement.

effective 2004-2005