

**APPLIED MATHEMATICS AND
COMPUTER SCIENCE—Bioinformatics
BACHELOR OF SCIENCE DEGREE – 120 Credits
University of Wisconsin-Stout**

NAME _____ DATE _____

I.D.# _____ PHONE # _____

PROGRAM PLAN – 2004-2005, Revised – December 2005

○ Prerequisite Required ● Course ◆Sequenced Course ■ Ethnic Studies and/or Global Perspectives

GENERAL EDUCATION	43 CREDITS
Communication Skills	8 credits
ENGL 101 Freshman English – Composition <i>or</i> ENGL 111 Freshman English – Honors I	3
ENGL 102 Freshman English – Reading & Writing <i>or</i> ENGL 112 Freshman English – Honors II	3
SPCOM 100 Fundamentals of Speech	2
Analytic Reasoning	8 credits
MATH 156 Calculus & Analytic Geometry 1	5
CS 144 Computer Science 1	3
Health and Physical Education	2 credits
Courses from the approved GE listing	2
Humanities and the Arts	9 credits
One course from EACH of three areas – GE listing	9
Social and Behavioral Sciences	9 credits
One course from EACH of three areas – GE listing	9
Natural Sciences	5 credits
CHEM 135 College Chemistry 1	5
Technology	2 credits
BIO 210 Issues in Biotechnology (fall)	2
Ethnic Studies	-
2-3 courses based on area – take HUM and SBSCI courses that count in both areas – see listing	-
Global Perspectives (Pick one option)	-
Second Language Option: 2 yrs same second language in h.s. <i>or</i> 4 university credits of a second language <i>or</i> competency by examination	-
Global Experience Option : 6 credits – take HUM and SBSCI courses that count in both areas – see listing	-
MAJOR STUDIES	77 CREDITS
Mathematics Core (Required) (16 cr –5 cr)	11 credits
MATH 156 Calculus & Analytic Geometry 1 (5 cr <i>GE</i>)	-
MATH 157 Calculus & Analytic Geometry 2	5
MATH 158 Calculus 3	3
MATH 275 Linear Algebra (fall)	3
Computer Science Core (Required) (13 cr – 3 cr)	10 credits
CS 144 Computer Science 1 (3 credits count as <i>GE</i>)	-
CS 145 Computer Science 2	3
CS 244 Data Structures (fall)	4
CS 443 Database Systems (spring)	3

EIGHT SEMESTER SEQUENCE								
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