

I. General Education Program Requirements: Eight semester hours (8 SH) of courses identified with an asterisk (*) may be used by elementary education majors to satisfy General Education requirements and nine (9 SH) by non-elementary education majors.

II. Math, Science, & Technology Concentration Requirements:18 SH
 Select courses from a minimum of two and a maximum of three different fields (prefixes).

ASTRONOMY

AST 1001 Introductory Astronomy I - Solar System* (Prereq: ND)	4 (F)
AST 1002 Introductory Astronomy II - Stars and Galaxies* (Prereq: ND).....	4 (S)

BIOLOGY

BIO 1201 Biology in Society I* (Prereq: ND).....	3 (F;S)
BIO 1202 Biology in Society II* (Prereq: ND)	3 (F;S)
BIO 1203 Biology in Society Laboratory (Prereq: ND)	2 (F;S)
BIO 2000 Introduction to Botany	4 (F;S)
BIO 2001 Introduction to Zoology	4 (F;S)
BIO 2400 Genetics (Prereq: ND, BIO 1801, CHE 1102 and MAT 1025)	3 (F;S)
BIO 2410 Genetics Laboratory (Prereq: ND. Pre/Co-req: BIO 2400or BIO 2700).....	1 (F;S)
BIO 3302 Ecology (Prereq: ND)	4 (F;S)
BIO 3308 Microbiology (Prereq: CHE 1101/CHE 1110, CHE 1102/CHE 1120, BIO 1801 and either BIO 2400, BIO 2600 or BIO 2700).....	4 (F;S)
BIO 3310 Marine Sciences	4 (S)
BIO 3312 Environmental Studies* (Prereq: BIO 1802 and RC 2001 or its equivalent.).....	3 (F;S)
BIO 4551 Ornithology	4 (S)
BIO 4552 Entomology.....	4 (F)
BIO 4559 Mammalogy	4 (S)
BIO 4569 Invertebrate Zoology	4 (F)

CHEMISTRY

CHE 1101 Introductory Chemistry I* (Prereq: ND. Pre/CO req: CHE 1110).....	3 (F;S)
CHE 1110 Introductory Chemistry Laboratory I* (Prereq: ND. Pre/Co req: CHE 1101).....	1 (F;S)
CHE 1102 Introductory Chemistry II * (Prereq: ND, CHE 1101 and CHE 1110. Pre/Co req: CHE 1120).....	3 (F;S)
CHE 1120 Introductory Chemistry Laboratory II* (Pre/Co req: CHE 1102).....	1 (F;S)
CHE 2201 Organic Chemistry I (Prereq: CHE 1102 and CHE 1120. Pre/Co req: CHE 2203).....	3 (F;S)
CHE 2203 Organic Chemistry Laboratory I (Prereq: CHE 1102 and CHE 1120. Pre/Co req: CHE 2201)	1 (F;S)
CHE 2202 Organic Chemistry II (Prereq: CHE 2201 and CHE 2203 with a minimum grade of C- in each. Pre/Co req: CHE 2204)	3 (F;S)
CHE 2204 Organic Chemistry Laboratory II (Prereq: CHE 2201 and CHE 2203 with a minimum grade of C- in each. Pre/Co req: CHE 2202)	1 (F;S)
CHE 2210 Quantitative Analysis (Prereq: CHE 1102 and CHE 1120. Pre/Co req CHE 2211).....	3 (F;S)
CHE 2211 Quantitative Analysis Lab (Pre/Co req: CHE 2210).....	1 (F;S)

COMPUTER SCIENCE

CS 1100 Discrete Mathematics (Prereq: MAT 1020 or MAT 1025 or equivalent with a grade of C- or higher) .3 (F;S)	
CS 1440 Computer Science I (Prereq: MAT 1020 or MAT 1025 or equivalent with a grade of C- or higher)	4 (F;S)
CS 2440 Computer Science II (Prereq: CS 1440 or CS 1445 or equivalent with a grade of C or higher. Coreq: CS 1100)	4 (F;S)

GEOGRAPHY

GHY 1011 Global Climate Change*	4 (F;S)
GHY 1012 Global Change of the Biosphere*.....	4 (F;S)
GHY 3100 Weather and Climate (Prereq: GHY 1010)	3 (S)

GEOLOGY

GLY 1101 Introduction to Physical Geology* (Prereq: ND)	4 (F;S)
GLY 1102 Introduction to Historical Geology* (Prereq: ND)	4 (F;S)
GLY 1103 Environmental Change, Hazards, and Resources* (Prereq: ND)	4 (F;S)
GLY 1105 Oceanography* (Prereq: ND)	4 (S)
GLY 1104 Water: Mountains to Sea*	4 (F;S)

MATH

MAT 1010 Introduction to Mathematics*(Preferred for EE) (Prereq: ND)	4 (F;S; SS)
MAT 1020 College Algebra with Applications* (Prereq: ND)	4 (F;S; SS)
MAT 1025 Precalculus (Prereq: ND)	4 (F;S)
MAT 1030 Calculus with Business Applications* (Prereq: ND, MAT 1020 or MAT 1025 or equivalent)	4 (F;S)
MAT 1110 Calculus with Analytic Geometry I* (Prereq: MAT 1025 with a grade of C- or higher or equivalent)	4 (F;S)
MAT 1120 Calculus with Analytic Geometry II (Prereq: MAT 1110 with a grade of C- or higher)	4 (F;S)
MAT 2130 Calculus with Analytic Geometry III (Prereq: MAT 1120 with a grade of C- or higher)	4 (F;S)
MAT 2240 Introduction to Linear Algebra (Prereq: MAT 1120)	3 (F;S)
MAT/CI 3030 Investigating Mathematics and Learning* (4 SH) (Prereq: MAT 2030 and RC 2001 or its equivalent) (Required for EE; 1 SH to be counted for SAC)	1 (F;S)
MAT 3130 Introduction to Differential Equations (Prereq: MAT 1120 with MAT 2240 recommended)	3 (F;S)
MAT 3910 Introduction to the Logic and Structure of Mathematics I (Prereq: Junior or senior standing)	4 (F)
MAT 3920 Introduction to the Logic and Structure of Mathematics II (Prereq: MAT 3910)	4 (S)
MAT 4910 Informal Geometry (Prereq: MAT 3910 or MAT 3920)	3 (F)
MAT 4930 Basic Concepts of Probability and Statistics (Prereq: MAT 3910 or 3920)	3 (On Demand)

PHYSICS

PHY 1101 How Things Work* (Prereq: ND. Coreq: MAT 1010 or MAT 1020 or MAT 1025)	4 (F)
PHY 1102 Environment and Everyday Life* (Prereq: PHY 1101)	4 (S)
PHY 1103 General Physics I* (Prereq: ND. Coreq: MAT 1020 or MAT 1025 or the equivalent)	4 (F;S)
PHY 1104 General Physics II* (Prereq: PHY 1103 or the equivalent)	4 (F;S)
PHY 1150 Analytical Physics I* (Prereq: ND. Coreq: MAT 1110)	5 (F;S)
PHY 1151 Analytical Physics II* (Prereq: ND. Coreq: MAT 1120)	5 (F;S)

STATISTICS

STT 1810 Basic Statistics* (Prereq: MAT 1010 or higher)	3 (F;S)
STT 2810 Introduction to Statistics* (Prereq: MAT 1010 or higher)	3 (F;S)
STT 3820 Statistical Methods I* (Prereq: STT 2810 or STT 2820 or equivalent)	3 (F;S)

TECHNOLOGY

TEC 2029 Society and Technology*	3 (F;S)
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Note: ND Prerequisite: Passing math placement test or successful completion of MAT 0010.

Contact Person: Students should contact their major program coordinator or advisor with questions. If question is in relation to a course on this list, the Chairperson of the department of the course should be contacted.