

SECOND YEAR SCIENCE – Second Year Prerequisites

BIOLOGY	Prerequisites
BIOL 2130: Cell Biology	BIOL 1110 (C) CHEM 1500 and 1510 or 1500 and 1520 CHEM 2120 (recommended)
BIOL 2160: Introductory Microbiology	BIOL 1110 and 1210 CHEM 1500 and 1510 or 1500 and 1520
BIOL 2170: Introduction to Ecology	BIOL 1110 and 1210
BIOL 2280: The Evolution & Ecology of Land Plants	BIOL 1110 and 1210
BIOL 2290: Evolution of Animal Body Plans	BIOL 1110 and 1210
BIOL 2340: Introduction to Genetics	BIOL 1110 and 1210 (C) Co-requisite: BIOL 2130 (recommended)

CHEMISTRY	Prerequisites
CHEM 2000: Relativity and Quanta	PHYS 1100 and 1200 or PHYS 1150 and 1250 MATH 1130 and 1230 or MATH 1140 and 1240 or MATH 1150 and 1250
CHEM 2100: Introduction to Analytical Chemistry	CHEM 1500 and 1510 (C-) or CHEM 1500 and 1520 (C-)
CHEM 2120: Organic Chemistry 1	CHEM 1500 and 1510 (C-) or CHEM 1500 and 1520 (C-)
CHEM 2160: Structure, Bonding & Spectroscopy	CHEM 1500 and 1510 (C-) or CHEM 1500 and 1520 (C-)
CHEM 2220: Organic Chemistry 2	CHEM 2120 (C-)
CHEM 2250: Fundamentals of Physical Chemistry	CHEM 1500 and 1510 (C-) or CHEM 1500 and 1520 (C-) MATH 1230 or MATH 1240 or MATH 1250 MATH 2110 strongly recommended

PHYSICS	Prerequisites
PHYS 2000: Relativity & Quanta	PHYS 1100 and 1200 or PHYS 1150 and 1250 MATH 1130 and 1230 or MATH 1140 and 1240 or MATH 1150 and 1250
PHYS 2150: Circuit Analysis	PHYS 1100 and 1200 (with written permission of instructor) or PHYS 1150 and 1250 MATH 1130 and 1230 or MATH 1140 and 1240 or MATH 1150 and 1250 (with permission from instructor)
PHYS 2200: Mechanics	PHYS 1100 and 1200 or PHYS 1150 and 1250 MATH 2110
PHYS 2250: Intermediate Electromagnetism	PHYS 1100 and 1200 or PHYS 1150 and 1250 MATH 1130 and 1230 or MATH 1140 and 1240 or MATH 1150 and 1250 (with permission from instructor)

MATH	Prerequisites
MATH 2110: Calculus 3	MATH 1230 or 1240 or equivalent Co-requisite: MATH 2120 recommended if MATH 1300 not completed
MATH 2120: Linear Algebra 1	6 credits of MATH 1000 or higher or MATH 1000 (A) No credit for both MATH 1300 and MATH 2120
MATH 2200: Introduction to Analysis	MATH 1240 or equivalent (B- strongly recommended)
MATH 2220: Discrete Mathematics	MATH 1140 and COMP 1130, or equivalent
MATH 2240: Differential Equations 1	MATH 2110 and MATH 2120
MATH 2700: Discrete Mathematics 2	MATH 1700 or COMP/MATH 1390

COMPUTING SCIENCE	Prerequisites
COMP 2130: Introduction to Computer Systems	COMP 1230 or COMP 2120 (C)
COMP 2160: Mobile Applications Development 1	COMP 1230 (C)
COMP 2210: Programming Methods	COMP 1230 (C)
COMP 2230: Data Structure, Algorithm Analysis, and Program Design	COMP 1390 or MATH 1700, and COMP 1230 or COMP 2120 or COMP 1240 (C)
COMP 2680: Website Design & Development	COMP 1130 (C)
COMP 2920: Software Architecture & Design	COMP 1230 (C)