



***Quinsigamond Community College (QCC) and Worcester State University
Free College Courses for Worcester Public School Students
Early College Worcester Summer - 2021***

Summer 1 May 24, 2021 – June 30, 2021

Tues/Thurs 3:30 –7:15 – Remote Synchronous

MAT 122 Statistics - 3 Credits

This course covers the essentials of statistics. Students learn descriptive and inferential statistics; charts (histograms, frequency polygons, ogives, and pie charts); measures of central tendency (mean, median, mode, and weighted mean); and measures of dispersion (range, variance, and standard deviation). Additional areas of study include discrete and continuous random variables; basic probability theory; the binomial distribution and its application in binomial experiments; standard and non-standard normal distributions; the Central Limit Theorem; confidence intervals for means, proportions, and variances; linear correlation and regression; and the one sample hypotheses test for mean (large and small sample), proportions, and variances.

Prerequisite: MAT 095 with a grade of "C" or higher; or appropriate placement score. F/S/SU

Tues/Thurs 5:00–8:45PM– Remote Synchronous

BTT 101 Introduction to Biotechnology - 3 Credits

The basic tenets of biotechnology including the scientific method will be presented through readings on the commercialization of recombinant DNA technology to produce therapeutic proteins and on the drug discovery process. Students will discuss the ethics, public policy issues, patent issues, career opportunities, and therapeutic promises of recombinant DNA technology. Students will also participate in a virtual drug discovery program to elucidate issues in drug discovery such as target identification, lead discovery and optimization, candidate selection, ethical clinical trials, and drug markets.

Prerequisite: ENG 091 with a grade of "C" or higher, ENG 096 with a grade of "C" or higher; or appropriate placement score, MAT 095 with a grade of "C" or higher; or appropriate placement score. F/S/SU

Tues/Thurs 3:30 –7:15 - Remote Synchronous

CIS 111 Introduction to Microcomputer Applications - 3 Credits

This course is the first of two in a series to assist students in preparation of the Microsoft Office Specialist (MOS) certification exam. **Microcomputer Applications Pathway**



Tues/Thurs 3:30 –7:15 Remote Synchronous

ART 141 Photographing People - 3 Credits

This course covers both posed and candid photographs of people. Students learn the proper operation of various cameras (automatic, manual, single-lens reflex, digital) and the selection of subjects, posing, and lighting. Students must supply their own photographic equipment (a working camera) and pay their own processing costs for prints.