



**Quinsigamond Community College (QCC)  
Free College Courses for Worcester Public School Students  
Early College Worcester Spring 2024**

**ECW Spring Semester - January 9, 2024 – May 13, 2024**

**ACC 101 Financial Accounting I – 3 Credits**

**Tues/Thurs @ QCC 1:30-2:50**

This course focuses on the relationships between business activities and events and the impact they have on financial statements from a preparer perspective. Students study financial transactions for both service and merchandising businesses and relate the transactions to a company's assets, liabilities, owners' equity, revenues, and expenses. Areas of study include the basic accounting model, the process of the accounting cycle, accounting principles and terminology, financial statement preparation, analytics, and computerized accounting applications. **Prerequisites:** Placement into college level English, MAT 090 with a grade of "C" or higher or appropriate placement score

**ALH 106 Medical Law and Ethics – 3 Credits**

**Tues/Thurs @ QCC 1:30-2:50**

This course explores many legal, ethical and bioethical issues encountered in a medical office and offers suggestions for dealing with those issues in an informed, legal and sensitive manner. Students learn the various designations for medical employees (licensed, registered and certified) and understand the laws that directly relate to physicians. Also an understanding of the role of bioethics in a medical office is discussed. **Prerequisites:** Placement into college level English

**ART 141 Photographing People - 3 Credits**

**Tues/Thurs @ QCC 1:30-2:50**

This course covers both posed and candid photographs of people. Students learn the proper operation of various cameras, automatic, manual, digital, and other cameras.

**BTT 101 Introduction to Biotechnology - 3 Credits**

**Fridays Only 3:00pm-5:50pm at QCC**

**\*\*The start date is Jan 26<sup>th</sup> Class meets during both February and April Vacations\*\***

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:** Placement into college level English, MAT 095 with a grade of "C" or higher; or appropriate placement score.

**CRJ 102 – Terrorism and Homeland Security– 3 Credits**

**Tues/Thurs @ QCC 1:30-2:50**

This course covers the fundamentals of preparing an organization and community for terrorism in the 21st century. Areas of study include the concept of threat assessment, prevention, mitigation, and response. Students learn about crisis and consequence management, and the methods used to plan for and respond to domestic terrorist incidents involving nuclear, biological, or chemical weapons of mass destruction as it relates to Homeland Security.

**ECE 101 Introduction to Early Childhood Education – 3 Credits**

**Tues/Thurs @ QCC 1:30-2:50**

This course is an introduction to early childhood education. Students study the history and contributing theories of the field and the basic aspects important to quality programs for young children. Course content includes studies of child development, the types of programs available; qualifications for teachers and staff; state regulations monitoring programs, state Guidance Policy, the Massachusetts Early Childhood Standards; career opportunities; special education considerations, and current issues in early childhood education. During a 10-hour field experience students make observations in the Children's School: QCC's Early Childhood Education Lab School and focus on guidance practices; children's play; integrated curriculum practices; transitions and routines; and appropriate methods for addressing special needs of young children. **Prerequisites:** Placement into college level English

**FYE 102 – Healthcare First Year Experience – 3 Credits**

**Tues/Thurs @ QCC 1:30-2:50 \*\*DOWNTOWN CAMPUS – 25 FEDERAL ST\*\***

First year students who want success and direction in their college experience gain practical skills that are directly applied to selection of a healthcare college major and future healthcare career paths. Students gain effective learning strategies and information on how to navigate and use college procedures and resources. This course emphasizes self-discovery, the workplace, life decisions, and career/future planning within a multicultural framework. Students identify their abilities and explore their values, interests, motives, motivations, behaviors, personalities, and interaction styles. Students acquire and develop skills for healthcare career planning, job searching and understanding healthcare job requirements/satisfaction. Students develop an e-portfolio that integrates information developed through the self-assessment and healthcare career development process.

**IMD 114 Digital Design Concepts I – 3 Credits**

**Tues/Thurs @ QCC 1:30-2:50**

This course explores the fundamentals of digital design and its application in two-dimensional space. Students learn the principals and elements of design and color theory to create vector drawing and graphics associated with digital media. Students complete assignments using industry-standard software and hardware.

**MAT 100 Algebra I – 3 Credits**

**Tues/Thurs @ QCC 4:00-6:15**

This course continues the areas of study presented in Intermediate Algebra with more advanced treatment. Students perform arithmetic operations on rational expressions; solve equations with fractions; factor expressions; simplify complex fractions; simplify exponential expressions, roots, radicals, and rational exponents; solve linear systems using several techniques; use the midpoint and distance formulas; recognize and graph the equation of a circle; solve linear and absolute value inequalities; solve quadratic equations by completing the square and by using the quadratic formula; solve equations containing radicals or absolute values; and perform arithmetic operations on radical expressions and complex numbers.

**Prerequisite-** Test- Please email for a seat on testing day.

**MAT 122 Statistics – 3 Credits**

**Tues/Thurs @ QCC 4:00-6:15**

This introductory statistics course covers descriptive statistics, probability, and inferential statistics. Statistical content includes sampling, graphical summaries of data, measures of center and variability, probability theory and distributions, standard and non-standard normal distributions, the Central Limit Theorem, confidence intervals, one-sample hypothesis tests, linear correlation and regression. Statistical technology is used.

**SOC 101 Introductory Sociology (Principles) - 3 Credits**

**Tues/Thurs @ QCC 2:00-3:20**

This course introduces basic theories and vocabulary of sociology including its historical origins and research process. It examines the major principles that govern the structure and function of society, its institutions, groups, and processes. Students learn how societies meet or do not meet the social, psychological, economic and everyday needs of their members. The course emphasizes making connections between students' personal lives and the social change occurring around them **Prerequisites:** Placement into college level English.

**SOC 111 Social Problems & Social Change - 3 Credits**

**Tues/Thurs @ QCC 2:00-3:20**

This course examines how social change in the United States produces social problems such as prejudice and poverty, and how these problems affect families and the quality of life in a multicultural society. Students learn to recognize and understand the relationship between on-going social change and the problems that accompany change. Students examine major problems facing society today, separate myth from fact, and analyze these problems and their solutions objectively. **Corequisite: ENG 101**

## Courses at the High Schools

### **ENG 102 English Composition II – 3 Credits**

In Composition II, students produce a minimum of four essays of carefully crafted prose. Student writers practice integrating and citing readings from academic disciplines, including literature; their research-based documented essays are expected. **Prerequisite:** ENG 101

### **ART 132 – Introduction to Drawing II – 3 Credits**

This course introduces instrumental and perspective drawing, including free application of mechanical theories. Topics include art and design applications of techniques; proper instrument use; and parallel, angular, and three-point perspective. Students learn how to use both freehand techniques and mechanical instruments to render drawings with speed, accuracy, legibility, and neatness. **Prerequisite:** ART 131.

### **FYE 101 – First Year Experience – 3 Credits**

First year students who want success and direction in their college experience gain practical skills that are directly applied to selection of a college major and future career paths. Students gain effective learning strategies and information on how to navigate and use college procedures and resources. This course emphasizes self-discovery, the workplace, life decisions, and career/future planning within a multicultural framework. Students explore psychological theories and apply those theories to their own personal situations to formulate career/life plans. Students identify their abilities and explore their values, interests, motives, motivations, behaviors, personalities, and interaction styles. Students acquire and develop skills for career planning, job searching and understanding job satisfaction. Students develop an e-portfolio that integrates information developed through the self-assessment and career development process.