



# Cambridge College

## Cambridge College Summer 2020 Online Offerings

### MATH & SCIENCE-BASED COURSES

#### **ACC 202 Accounting II**

3 credits | Prerequisite: One full year of high school Accounting

Students will continue to develop a basic understanding of fundamental accounting concepts and practices. Students will also be introduced to fundamental managerial accounting concepts and practices and will learn to interpret and use internal financial information in the management and analysis of business operations.

#### **ACC 206 Accounting Information Systems**

3 credits | Prerequisites: One full year of high school Accounting

The Accounting Information Systems course is designed to help the student understand and identify key concepts and components to an accounting information system, including information data flow, information system architecture, business continuity, and roles of accountants within the information system. Additionally, accounting software systems will be examined.

#### **BNK 201 Principles of Banking**

3 credits | Prerequisite: None

This course provides students with an overview of the history, purpose, and functions of banking. The course focuses on how banks serve the financial needs of individuals, businesses, and government in today's competitive environment. Students will compare financial services offered through traditional banking institutions with other financial intermediaries. Topics will include: Introduction & Evolution of Banking, The Federal Reserve as the Central Bank of the U.S., Deposits, Negotiable Instruments/Payments, Customer Service & Sales, Non-Traditional Bank Products & Services, Lending, Bank Investments & Profitability Management, and Safeguarding Customer Assets.

#### **ECO 101 Economics and Society**

3 credits | Prerequisite: None

This course emphasizes how events and developments in the economy can affect the market and financial decisions of business. The course provides students with an overview of the fundamental concepts and theories related to economic development from the Middle Ages to the Twenty-First Century. Students will learn a balanced perspective on how the economy has developed and how that economy influences society and how society influences the economy. The course explores and analyzes



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the role of past economic trends and dynamics and employment and income inequalities that continue to challenge global society, market economies, and governments, especially our own. Students will also learn key terminology and how to illustrate economic principles and elements of business from an economic viewpoint.

### **ECO 201 Macroeconomics**

3 credits | Prerequisite: None

This is a three credit course that will develop a working knowledge of the principle concepts and theories in macroeconomics. In this day of rapid and dynamic change, economic issues underlie much of the political, social, cultural and military turmoil throughout the world. In this course, economic theory and analysis are related to the world reality. Thus, the student can apply what is being learned to assist in making prudent judgments regarding various current economic issues, even though they may have social and political overtones.

### **FIN 201 Principles of Financial Services**

3 credits | Prerequisite: None

Principles of Financial Services is a beginner course providing focus on the history, regulatory environment, competitive pressures and developing trends affecting the industry. This course creates a general understanding of the sub-sector industry players individually (banking, insurance and investment/mutual funds) and evolves to a study of components affecting the industry as a whole today.

### **FLS 101 Financial Literacy**

3 credits | Prerequisites: None

This course presents key aspects of financial literacy necessary for lifelong success. A practical approach is followed. Topics covered include: the impact of credit on personal finances and employment opportunities, identifying and avoiding financial fraud, the importance of financial decision making, the impact of income taxes, the use of insurance as a risk management tool, retirement planning, and determining whether or not to file personal bankruptcy.



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### **MAT 099 Fundamentals of Math**

3 credits | Prerequisite: Permission of the College

This course focuses on concepts and applications of arithmetic, including whole numbers, fractions, ratios, proportions, the decimal system, and percentages. Brief introductions to algebra, formulas, algebraic expressions and linear equations are also included. Special emphasis is placed on the application of basic math skills to common workplace problems and real-life situations. Students may be required to take MAT 099 based on the Math placement test and prior to registering for MAT 103 Business Mathematics and/or MAT 105 College Algebra. Students must pass Fundamentals of Math with a "C" or higher before enrolling in college level math courses. **Please note: This is a pre-college-level course and does not award credit that can count toward graduation requirements.**

### **MAT 103 Business Mathematics**

3 credits | Prerequisite: None

This course applies math fundamentals to business applications. Topics include a basic math review, business statistics, profit calculations, payroll, banking, interest calculations, insurance, taxes, and other business topics.

### **MAT 205 College Algebra**

3 credits | Prerequisite: None; Business Math Strongly Recommended

This course focuses on algebraic concepts essential for success in the workplace and other courses. Using real-world examples and applications, students practice fundamental operations with number systems, formulas, algebraic expressions, and linear equations. This course also explores problems involving factoring, inequalities, exponents, radicals, linear equations, functions, quadratic equations, and graphs.

### **MAT 305 Statistics**

3 credits | Prerequisite: AP Algebra, AP Calculus, Upper Level College Math

This course covers basic statistical concepts and theories, as well as the application of statistical methods. The topics include the collection, organization, summary, and description of data, basic probability theories, normal distribution, sampling distributions, confidence interval estimation, hypothesis testing techniques, and regression-correlation analysis.



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### **SCI 301 Anatomy and Physiology**

3 credits | Prerequisites: None

This course provides the student with a comprehensive examination of the human body. Emphasis is on how the body is organized, its support and maintenance system, control, and continuity. The course is a survey of the structure and function of the human organ systems.



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### ARTS, HUMANITIES, BUSINESS-RELATED COURSES

#### **ART 301 Art History and Appreciation**

3 credits | Prerequisite: None

This course examines the meaning, purpose, function, and classification of art and architecture. The course assesses visual elements and principles of design necessary for creating art and the materials and techniques employed in making two and three dimensional artworks. The course covers art-specific vocabulary, methods of interpretation of art and major artistic and architectural achievements in the history of Western culture. Students will examine well-known works of art and architecture through the study of content, technique, form, and purpose as they relate to art and architecture. Students will learn to apply critical thinking in assessing, evaluating and debating the artistic techniques and skills utilized to produce enduring works of art and architecture.

#### **ENG 099 Fundamentals of English**

3 credits | Prerequisite: Permission of the College

The purpose of this course is to provide students with a solid foundation in grammar, writing, and essay techniques. Students will identify parts of speech and learn to write compelling and grammatically correct sentences and paragraphs. Students will learn and apply the steps of the writing process through the use of various materials including exercises from [www.mywritinglab.com](http://www.mywritinglab.com). Students will learn about proper writing style, pattern types, as well as strategies and guidelines for writing an effective essay.

**Please note: This is a pre-college-level course and does not award credit that can count toward graduation requirements.**

#### **ENG 101 English Composition I**

3 credits | Prerequisite: None

The purpose of this course is to provide students with a solid foundation in writing and research techniques. Students will learn and apply the steps of the writing process. They will identify essay components and learn to write compelling and grammatically correct paragraphs. Writing style, pattern types, as well as strategies and guidelines for writing an effective research paper will be evaluated. Students will write an effective and grammatically correct research paper as a final project in this course.



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### **ENG 201 English Composition II**

3 credits | Prerequisite: AP English, Upper level high school English, Intro Level College English

The purpose of this course is to build upon writing and research skills learned in English Composition I. Students will apply research strategies and methods for finding information and implement the steps of the writing process and appropriate research and citation methods to write research essays and papers. Students will learn to further utilize the APA Style in writing research essays and papers.

### **HCA 101 Medical Terminology**

3 credits | Prerequisite: None

This course offers students engagement and interaction with the dynamic language of Healthcare. Though comprehensive discussions and activities, students will have the opportunity to be immersed in the words used in Healthcare including healthcare industry terminology, healthcare delivery systems terminology and body systems – clinical terminology.

### **INF 101 Information Literacy for College Success**

3 credits | Prerequisite: None but Required as First Course in All Undergraduate Programs

The purpose of this introductory course is to prepare students to be an online learner and an information literate individual in a technological world. The course provides an understanding of NECB's learning technologies, support services, and necessary skills for online student success. The primary function of this course is to provide students with the necessary skills of Information Literacy which prepare students to recognize what information is needed, when it is needed and how to locate, evaluate and use it effectively. Extensive practice in using the NECB eLibrary databases is integral in learning to be an information literate student at NECB. The course content aligns with the national standards as established by the American Library Association and the Association of College & Research Libraries.

### **MGM 201 Principles of Management**

3 credits | Prerequisites: None

This course investigates the way that managers perform their duties in an organization relying on the dynamic processes of strategic planning, business development, budgeting, and operations to move their organizations forward and achieve results. The concepts and skills needed to manage effectively under constantly changing conditions are identified. The course will review a manager's skill at influencing the direction and functioning of an organization and will develop students' appreciation of



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these management activities and their links to employee performance. Active involvement through lectures, discussion, videos, case studies, and group exercises is required of each student.

### **MKT 210 Principles of Marketing**

3 credits | Prerequisite: None

This course focuses on how to collect, analyze, and use primary and secondary data in order to make more effective marketing decisions. Traditional marketing resources are introduced as well as up-to-date techniques for collecting primary data. Students will analyze information and make recommendations pertinent to the marketing plan.

### **PHI 101 Critical Thinking**

3 credits | Prerequisite: None

The purpose of this course is to provide a basic knowledge of the art and discipline of critical thinking. Students will learn the various critical thinking standards and concepts including effective critical thinking, problem solving, logical reasoning, comparative reasoning, issue analysis and the application of critical thinking standards and strategies to determine and solve practical and theoretical problems. Students will explore the application of critical thinking concepts to real world situations in an effort to understand the critical thinking process. They will develop an ability to critically analyze the formulation and posing of questions to promote well-reasoned arguments on a variety of important topics.

### **PJM 210 Introduction to Project Management**

3 credits | Prerequisite: None; MKT210 Principles of Marketing Strongly Recommended

This course explores both the theory and the practice necessary to successfully understand and manage projects. Students will learn the terminology, processes, and key concepts that are essential to effective project management. They will explore the five stages of a project's life cycle, and examine important project elements—such as integration management, scheduling, costing, quality, control, risk management, procurement, and stakeholder engagement—that must be monitored, evaluated, and executed throughout a project.