



# **COURSE CATALOG**

**SPRING 2020**

Available Courses for College Credit

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## HISTORY AND GOVERNMENT

**HIST 2103** **U.S. History I** **3 credit hours**

U.S. History I covers U.S. history through 1877, taking students from pre-Columbian events through the Civil War. The course introduces students to the major themes that have defined the United States as a nation and culture, and shows students how these times remain relevant in their everyday lives. This is a self-paced online course, designed for 3 hours of college credit.

**HIST 2203** **U.S. History II** **3 credit hours**

U.S. History II provides a comprehensive presentation of the significant social, political, and economic developments from 1877 to the present. The course is designed to engage students in understanding how shifts in culture, private initiative, public policy, and technology have shaped American history. Critical reading, analysis, and writing will be emphasized as core elements of enhancing lesson understanding. This is a three credit-hour course; satisfactory completion of the course requires passing a midterm and a final exam.

## LANGUAGES

**LATIN 2105** **Latin I** **5 elective credit hours\***

Latin I introduces students to the basics of Latin grammar, syntax, and vocabulary. Students will be introduced to the six indicative active tenses of first, second, third, third -io, and fourth conjugations, as well as those same tenses of the irregular verbs sum and possum. Students will meet the present, imperfect, and future indicative passive tenses of first and second conjugations. The present infinitives, active and passive, will also be presented. Students will also learn about first, second, and third declension nouns; first, second, and third declension adjectives; special -ius adjectives; the reflexive adjective; interrogative adjectives; demonstratives; and numbers. Personal pronouns, reflexive pronouns, relative pronouns, and interrogative pronouns will also be taught.

## SCIENCE, TECHNOLOGY, AND MATH

**BIO 1303** **Introduction to Biology** **3 credit hours**

This course provides a comprehensive introduction to the major concepts of biological sciences and the characteristics of life. The course is designed to engage students in understanding the major processes of cells including cell structure, growth, and reproduction. The course provides the student with an in-depth understanding of genetics and heredity as well as the role it plays in the overall function and continued growth of a population. Other topics include ecology and biodiversity. This course does not include a laboratory component.

**BIO 1311** **Introduction to Biology Lab** **3 credit hours**

Introduction to Biology Lab provides a comprehensive introduction to the laboratory study of life. In this class, students will learn about lab safety and explore topics like the metric system using the microscope and the scientific method. Students will learn how cells grow and divide, obtain and use energy, and pass their genetic information to the next generation. Finally, students will learn the importance of biodiversity in ensuring the survival of a species. Students will complete thirteen lab assignments including a formal lab report. This course can be taken either after or with a three-hour biology lecture course.

**CHEM 2103** **Chemistry** **3 credit hours**

Chemistry I provides a comprehensive introduction to the fundamental principles and applications of general chemistry. This course examines topics that include composition of matter, the atom, chemical bonding, solutions, measurements, chemical nomenclature, stoichiometry, and thermochemistry. This is a three credit-hour course; satisfactory completion of the course requires passing a midterm and a final exam.

**ICT 1303** **Introduction to Information Technology** **3 elective credit hours\***

This course provides an introduction to information technology and computing systems, it covers both the history and theory of information systems as well as the practical application of technologies. The student will be introduced to computer software, hardware, and networking technologies, as well as information security, privacy, and social issues inherent in information technologies. The practical application of productivity software, data management, HTML and CSS, are covered, as well as an introduction to computer coding through Scratch and Java. Future trends in information technology are addressed through topics including data mining, visualization, natural language processing, artificial intelligence, and Blockchain.

*In this Experiential Learning course, students will create a product for a local organization such as an informational website that can be used to connect with the public. Students will work through a design thinking process and create a proposal, a project plan, a proof of concept - which they will present to the client - and then a final working product.\*\**

**MATH 1203** **College Algebra** **3 credit hours**

College Algebra provides a comprehensive introduction to the foundations of mathematics typically taught in a traditional college algebra course. Students will gain practical knowledge by solving and applying equations to real-life situations. They will explore a variety of functions and understand how they are used to model complex phenomena. Data and trends will be summarized and visualized by creating and implementing graphs. Finally, students will feel empowered with the skills to succeed in math, science, business, and programming.

**MATH 1113** **Quantitative Analysis I** **3 credit hours**

Quantitative Analysis I is a course designed to introduce students to basic and some intermediate concepts of number sense and quantitative analysis. The course is designed to help students conceptualize abstract quantitative concepts as they relate to real-world problems and everyday life. The course provides extensive examples and practice to help students explain and apply the concepts. The course covers basic number sense, algebraic concepts, Geometry and visual modeling, and probability.

**PHY 1103** **Physical Sciences** **3 credit hours**

Physical Science is an introductory course designed to give students an opportunity to explore the concepts of physical science. Students will be introduced to the foundations of science, including skills, assumptions, and the role of technology in science. Then, students will learn about matter, atoms, and the periodic table. Students will dive into the chemical side of physical science with an introduction to chemical reactions and the chemistry of carbon and solutions. They will explore motion, forces, work, machines, and energy as well as nuclear energy and thermal energy. Lastly, students will get an introduction to waves, sound, and electromagnetic radiation.

**PHY 1111** **Physical Sciences Lab** **3 credit hours**

Physical Sciences Lab provides a comprehensive introduction to the laboratory study of fundamental concepts of physics and chemistry. In this course, students will learn about lab safety and how to analyze and solve problems using critical thinking and the scientific method. This course will focus on topics such as atomic structure, motion and force, sound, and light, with an emphasis on technology, data collection and analysis. This is a one credit hour course that can be taken either after or with a physical sciences three hour lecture course.

## SOCIAL SCIENCES

**PSYC 1203**

### **Principles of Psychology**

**3 credit hours**

This course is designed to serve as an introductory course to the basic concepts in psychology that analyze human behavior. Students will first delve into the fundamentals of psychology including the history, science, approaches, and research in psychology. Next, students will get an introduction to biology as it relates to human psychology including genetics, the nervous system, sensation and perception, and developmental psychology. This course is also designed to give students an understanding of the psychology behind cognition, memory, learning, and motivation as well as social psychology. Students will get to examine the psychological effects that impact everyday life such as consciousness and sleep, stress and health, personality, psychological disorders, and therapy and treatment.

## WRITING AND COMMUNICATION

**COM 1103**

### **Introduction to Communication**

**3 credit hours**

Introduction to Communication is a study of basic communication theory and history. It focuses specifically on the relevance of communication study today and how different situations and technologies demand the evaluation and application of appropriate communication techniques. Students in the course will apply communication studies to developing applications of communication including business presentations, public speaking, organizational communication, and small group communication. Students will be required to record five speeches. Of the five, two are required to be delivered in front of no fewer than seven people, either in person or virtually.

*Additionally students will pick an organization in the community and a problem within that organization. They will work with community members to research and develop a solution for this problem. Students are asked to interview a member of the organization and develop a speech and video to give to the organization detailing their solution to the problem.\*\**

**ENG 1303**

### **Language and Composition**

**3 elective credit hours\***

This course is a study of the basics of composition including types of essays, how to analyze essay writing, and how to prewrite and edit your essays. The course also includes a description and understanding of rhetoric, argumentation, persuasion, and the rhetorical situation as it applies to past and current writing.

**ENG 2303**

### **Literature and Composition**

**3 credit hours**

English Literature and Composition course aligns to an introductory college-level literary analysis course. The course engages students in the close reading and critical analysis of the literary genres of the epic, poetry, drama, and prose, including novels, short stories, and essays. They will read a survey of literature from the 8th century BCE through the 19th century. Students will examine the ways writers use language to provide both meaning and pleasure. As they read, students will consider a work's structure, style, and themes, as well as its use of figurative language, imagery, symbolism, and tone. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works. A final project will include the study of a specific novel with the goal of writing a research paper about that novel and preparing and delivering a visual presentation.

## **ADDITIONAL INFORMATION**

### **\*Elective Credit**

Elective credits are for extra courses that you elect to take, not courses specified by a degree program. These credits may or may not count toward your degree. Electives are often unrelated to your degree, however, many degree programs require a specific number of elective credit hours, which allows students to venture out and take courses that interest them. You may choose an elective to fulfill a particular general education requirement, boost your GPA, or journey into something that excites you. Some electives help to develop career skills or hobbies. They can also be structured toward a specific concentration or for a minor in another subject area.

### **\*\*Experiential Learning Courses**

TEL's experiential learning framework allows educators to integrate real-life participation models found outside of the classroom with traditional general education courses. Modules will provide students the opportunity to work individually or collaboratively on real-world projects, to demonstrate subject/skill mastery gained through their participation, and to have a genuine impact in their local communities.