

## Math



All Math courses are offered through Sinclair

### **MAT 1440 Excursions in Mathematic Credit Hours: 3**

A mathematics appreciation course designed as a terminal college-level mathematics course for Liberal Arts majors. The course will explore various applications of mathematics in the behavioral, computational, managerial, and social sciences. Topics from probability and statistics, finance, graph theory, voting, and other areas of mathematics will be covered.

### **MAT 1470 Intermediate College Algebra Credit Hours: 3**

Polynomial, radical, rational, exponential and logarithmic functions and their graphs; roots of polynomial functions, rational and polynomial inequalities; systems of linear and nonlinear equations; matrices; and applications. Traditional testing (proctored or in Testing Center) is used in all online sections.

### **MAT 1580 Precalculus Credit Hours: 5**

Polynomial, radical, rational, exponential and logarithmic functions and their graphs, roots of polynomial functions, rational and polynomial inequalities, conic sections, systems of linear equations; sequences and series. Trigonometric functions of angles, solving right and oblique triangles, trigonometric identities and equations, vectors, radian measure, graphs of trigonometric functions, inverse trigonometric functions and applications. A scientific (nongraphing) calculator is required.

## Social Studies



### **PLS 1120 American Government Credit Hours: 3**

American political system at the national level, including process of government; democratic theory and development of the U. S. Constitution; citizen participation through voting; interest groups and political parties; structure, functions and powers of legislative, executive and judicial



### **HIS 1112 World Civilization 2 Credit Hours: 3**

Major trends in the development of Western culture, emphasizing political, economic, social and cultural achievements from the seventeenth century to the present.



### **PLS 2220 International Relations Credit Hours: 3**

Principles and techniques of international politics, including theories, organizations and different world perspectives.



### **PHI 2205 Intro to Philosophy Credit Hours: 3**

Basic nature of philosophy, its relationship to physical and social sciences and theology and its value to the individual.



### **PSY 1111 Intro to Psychology Credit Hours: 3**

Introduction to fundamental principles and practices of psychology, including history, methods, biology of behavior, consciousness, perception, learning, thinking, intelligence, language, memory, social and organizational behavior, development, personality, psychopathology, and treatment.

**\*Online class**



### **SOC 1110 Intro to Sociology Credit Hours: 3**

Analysis of social theory, methodology, and principles to provide a framework to study culture, socialization, stratification, and deviance. Comparative analysis of sociologically relevant diverse worldviews: examining political, spiritual, and social systems and economic and cultural traditions.

**\*Online class**

