



**CALCULUS** WEIGHTED: 0.667  
Grade: 12 Credit: 1 unit  
This course focuses on the fundamental concepts of differential and integral calculus. Topics include the study of limits; techniques and applications of derivatives; the anti-derivative and definite integral, with applications, as they relate to all functions.

**IB MATHEMATICS SL 11th grade** WEIGHTED: 1.0  
Grade: 11 Credit: 1 unit  
**IB MATHEMATICS SL 12th grade** WEIGHTED: 1.0  
Grade: 12 Credit: 1 unit  
This is a **two-year course**. Students will study the statistical concepts of variance, circular and right triangular Trigonometry, and the fundamental concepts of Calculus.

## SCIENCE

**CHEMISTRY II** WEIGHTED: 0.667  
Grade: 11-12 Credit: 1 unit  
This class provides a more detailed look at topics encountered in first-year chemistry as well as additional topics in thermochemistry; reaction rates, chemical thermodynamics, and equilibrium are included.

**HUMAN ANATOMY/PHYSIOLOGY** WEIGHTED: 0.667  
Grade: 11-12 Credit: 1 unit  
This course is designed to prepare students to pursue post-secondary education and careers in the biomedical sciences. Students will explore each system of the human body with a detailed focus on anatomy and physiology.

**IB BIOLOGY HL 11th grade** WEIGHTED: 1.0  
Grade: 11 Credit: 1 unit  
**IB BIOLOGY HL 12th grade** WEIGHTED: 1.0  
Grade: 12 Credit: 1 unit  
This is a **two-year course**. Coursework builds upon knowledge gained in Advanced Studies Biology I and Advanced Studies Chemistry.

**AP PHYSICS I** WEIGHTED: 0.667 or 1.0  
Grades: 11-12 Credit: 1 unit  
AP Physics 1 is a full-year course that is the equivalent of a first-semester introductory college course in algebra-based physics. Students cultivate their understanding of Physics through inquiry-based investigations as they explore these topics: kinematics; dynamics; circular motion and gravitation; energy; momentum; simple harmonic motion; torque and rotational motion; electric charge and electric force; DC circuits; and mechanical waves and sound.

**AP PHYSICS II** WEIGHTED: 0.667 or 1.0  
Grades: 11-12 Credit: 1 unit  
AP Physics 2 is a full-year course that is the equivalent of a second-semester introductory college course in algebra-based physics. Students cultivate their understanding of Physics through inquiry-based investigations as they explore these topics: fluids; thermodynamics; electrical force, field, and potential; electric circuits; magnetism and electromagnetic induction; geometric and physical optics; and quantum, atomic, and nuclear physics.

**PRINCIPLES OF BIOMEDICAL SCIENCES** WEIGHTED: 0.5  
Grade: 9-10 Credit: 1 unit  
Introductory course in the Project Lead the Way Biomedical Sciences Program. Student work involves the study of human medicine, research processes and an introduction to bio-informatics. Students investigate the human body systems and various health conditions including heart disease, hypercholesterolemia, diabetes, sickle-cell disease, and infectious diseases.

**HUMAN BODY SYSTEMS** WEIGHTED: 0.667  
Grade: 10-12 Credit: 1 unit  
The course is designed to prepare students to pursue a post-secondary education and careers in the biomedical sciences. Students will explore human body systems by function through inquiry based learning projects including student-led research, presentations, and posters.

## FINE ARTS

**IB VISUAL ARTS SL or HL** WEIGHTED: 1.0  
Grade: 11-12 Credit: 1 unit  
This is a **two-year course** for the self-directed and skilled art student. Studio based art class intended for upper level students who are expected to research art history/styles and are responsible for IB specific assignments, including: comparative study, process portfolio and exhibition.

**PORTFOLIO I** WEIGHTED 0.667  
Grade: 11-12 Credit: 1 unit  
This course is designed for students planning on a Fine Arts or Commercial Arts career.

**PORTFOLIO II** WEIGHTED 0.667  
Grade: 12 Credit: 1 unit  
This course is designed for students planning on a Fine Arts or Commercial Arts career.

## PRACTICAL ARTS

**BUSINESS ADMINISTRATION** WEIGHTED: 0.667  
Grades: 11-12 Credit: 1 unit  
Designed to develop students' knowledge and understanding of business management theories as well as their ability to apply a range of tools and techniques, this course is recommended for students seeking a career as an entrepreneur/business owner or an entrepreneur/corporate manager.

**IB BUSINESS MANAGEMENT SL** WEIGHTED: 1.0  
Grades: 11-12 Credit: 1 unit  
Designed to develop students' knowledge and understanding of business management theories as well as their ability to apply a range of tools and techniques, this course is recommended for students seeking a career as an entrepreneur/business owner or an entrepreneur/corporate manager. The course covers the key characteristics of business organization and environment and the business functions of human resource management, finance and accounts, marketing, and operations management.

**ACCOUNTING** WEIGHTED: 0.667  
Grades: 9-12 Credit: 1 unit  
Designed for students interested in obtaining a business degree after high school, becoming an accountant, or starting their own business, this course provides a basic understanding of a business's financial side. The process of gathering, recording, posting and interpreting financial data for sole proprietorships and corporations is covered. Spreadsheets and other applications are utilized to enhance accounting skills.

**COLLEGE ACCOUNTING** WEIGHTED: 0.667  
Grades: 11-12 Credit: 1 unit  
College level accounting class provides an in-depth study of business finances which include: using financial accounts, creating and analyzing financial statements, preparing journal entries, performing ratio analysis, and accounting for merchandising operations, partnerships and corporations. Spreadsheets are utilized to develop accounting skills.

**SPORTS AND ENTERTAINMENT MARKETING** WEIGHTED: 0.667  
Grades: 11-12 Credit: 1 unit  
Designed for students with a passion for sports, music, fashion, or entertainment. This course builds upon prior marketing experience by applying concepts and components involved in marketing and operating sports and entertainment events. Through project-based learning, class discussion, and DECA competitions, students are able to explore finance, pricing, product/service management, promotion and selling in relationship to sports and entertainment.

**ENTREPRENEURSHIP WITH CREATIVE MARKETING** WEIGHTED: 0.667  
Grade: 11-12 Credit: 1 unit  
Designed for student that are considering starting their own business. This course evaluates entrepreneurial potential and improves skill sets.