

# Saint Michael's Episcopal School

## High School Grades IX-XII Scope & Sequence

Grade IX	Grade X	Grade XI	Grade XII
Ancient Literature	World Literature	American Literature	British Literature
Geometry	Algebra II	Pre-Calculus	Calculus
Biology	Chemistry	Physics	Advanced Science
Anthropology	World History	Government/Economics	American History
French or Spanish	French or Spanish	French or Spanish	French or Spanish
Latin I	Latin II	Latin IIIA	Latin IIIB/Greek
Sacred Studies	Sacred Studies	Philosophy or Logic	Ethics
Art and Music	Art and Music	Art and Music	Art and Music
Chapel	Chapel	Chapel	Chapel
P.E.	P.E.	P.E.	P.E.

### All High School Grades:

**Art and Music.....** Further develop personal art goals using various techniques and media, study series of eras/regions of art, TAPPS art competition; perform in Gilbert & Sullivan operetta, learn expression and technical accuracy in singing, four- part music, sight-reading music, optional chapel choir participation, TAPPS vocal solo and ensemble competition

**Chapel.....** Daily chapel attendance required

**Physical Education...** Continue regular exercises to develop flexibility, muscular strength, and cardiovascular endurance; learn more modified versions of individual and team games; work on team play skills and offensive and defensive strategies; complete physical fitness evaluation program; learn basic health and nutrition; opportunity to participate in TAPPS basketball, volleyball, and track

## **Grade IX:**

**Ancient Literature ...** Refine composition skills research paper, literary analysis, impromptu speeches, dramatic reading, Shakespeare play, dramas and pageants

**Geometry.....** Deductive reasoning, geometric patterns in the real world, relationship between geometry and algebra, direct and indirect proofs, constructions, parallel and perpendicular lines, angles, triangles, circles, polygons, perimeters, areas, Pythagorean Theorem

**Biology.....** Life processes, cell structure and function, mitosis, meiosis, DNA, genes, chromosomes, population genetics, classification of plants and animals, human physiology, science fair project

**Anthropology.....** Branches of anthropology, definition of culture, paleontology, archeology, Darwin and Mendel, geological time scale, social organization, religion and magic, acquisition of language

**Foreign Language.....** Choice of French or Spanish, one language may be studied for all four years of high school

**Latin (Introductory)....** Text: *Jenney First Year Latin*, grammatical review of introductory Latin and vocabulary

**Sacred Studies.....** 1<sup>st</sup> semester - Ten Commandments; 2<sup>nd</sup> semester – Girls study Women of the Bible, Boys study Patriarchs of the Bible

## **Grade X**

**World Literature.....** Further refine composition skills, analysis, research paper, continue developing oral skills, Shakespeare play, drama and pageants

**Algebra II.....** Structure of number systems, domain/range of functions, point-slope/slope-intercept forms of equations, discriminance and zeroes of quadratic functions, conic sections, logarithms, and binomial theorem

**Chemistry.....** Terminology and nomenclature, qualitative aspects of elements, compounds, chemical reactions, atomic structure, laboratory experiments and demonstrations, problem solving and applications of math to chemistry

**World History.....** Theories of history, prehistory and history, early civilizations, introduction of writing, technological developments, communication systems, trade and commerce, warfare, agriculture and population expansion, eras of history through the modern era

**Foreign Language.....** Continue in French or Spanish from grade IX

**Latin (Intermediate) .....** Text: *Jenney Second Year Latin*, quick review of all Latin grammar and much vocabulary, Caesar's Gallic Wars

**Sacred Studies.....** Survey of world religions

## **Grade XI:**

**American Literature**.... Retain and refine skills; research paper; Internet use for research; précis writing; persuasive, informative prepared speeches; drama and pageants

**Pre-Calculus**..... Advanced algebra, review of trigonometry and analytic geometry, solidification of all previous algebraic skills

**Physics**..... Terminology, mechanics and its application, laws of motion and gravity, circular motion, rotational mechanics, properties of matter, heat, light, sound, electricity and magnetism

**American History**..... Covers the time since the Civil War

**Foreign Language**..... Continue in French or Spanish from grade X

**Latin (Adv. I)** ..... Advanced level original sources translation cycle beginning with Vergil's Aeneid and continuing with Cicero's Catalinarian Oration.

**Philosophy**..... Overview of philosophers; sometimes logic course is substituted

## **Grade XII:**

**British Literature**..... Retain and refine skills; research paper; internet use for research; outlining; literary analysis; persuasive, informative prepared speeches; drama and pageants

**Calculus**..... Differentiation and integration, practical applications, limit theorems, The Fundamental Theorem of Calculus

**Advanced Science**..... AP level of a previous science course, computer science, or science/technology elective of students' choice including the possibility of dual enrollment in a university course

**Government/Economics** 1st semester government covering political, economic and philosophic background for the U.S. system of government, the three branches of government, and political parties; 2nd semester economics covering fundamental economic theories and daily applications

**Foreign Language**..... Continue in French or Spanish from grade XI

**Latin (Adv. II)/Greek**.... Advanced original sources Latin translation cycle continuing with Horace and Catallus for the 1st semester; optional beginning ancient Greek for the 2nd semester depending on progress in Latin translation

**Ethics**..... Christian perspectives on contemporary issues

**Senior Project**..... Optional but strongly encouraged independent project on subject of choice, approval of headmistress required