

TOPS Core, 2019: Dual Enrollment/Matrix Options for TOPS Core

(for increased weights when calculating TOPS GPA for incoming freshman beginning Fall 2014)

ENGLISH = 4 Units	Advanced Placement	International Baccalaureate	Cambridge International (Honors)	Gifted & Talented	Honors	Dual Enrollment	
ENGLISH I – 1 unit						Common Course Code	Common Course Name
ENGLISH II – 1 unit							
1 Unit from the following:							
ENGLISH III – 1 unit	AP English Language and Composition	IB Literature IB Language & Literature IB Literature and Performance	English LanguagePart 1: CambridgeAICE - AS Level orLiterature in English Part 1: Cambridge AICE -AS Level	English III	English III	CENL 1013 CENL 1023 CENL 2153 CENL 2163 CENL 2173	English Composition I English Composition II American Literature I American Literature II Major American Writers
1 Unit from the following:							
ENGLISH IV – 1 unit	AP English Literature and Composition	IB Literature IB Language & Literature IB Literature & Performance	English Language Part 2: Cambridge AICE -AS Level or Literature in English Part 2: Cambridge AICE - AS Level	English IV	English IV	CENL 1013 CENL 1023 CENL 2103 CENL 2113 CENL 2123 CENL 2203 CENL 2213 CENL 2223 CENL 2303 CENL 2323 CENL 2313	English Composition I English Composition II British Literature I British Literature II Major British Writers World Literature I World Literature II Major World Writers Introduction to Fiction Introduction to Literature Intro to Poetry and/or Drama

MATHEMATICS = 4 Units	Advanced Placement	International Baccalaureate	Cambridge International (Honors)	Gifted & Talented	Honors	Dual Enrollment	
ALGEBRA I – 1 unit	<i>* Integrated Mathematics I, Integrated Mathematics II, and Integrated Mathematics III, including the Cambridge Integrated Mathematics sequence, may be substituted for the Algebra 1, Geometry, and Algebra II sequence.</i>					Common Course Code	Common Course Name
GEOMETRY – 1 unit							
ALGEBRA II – 1 unit							
1 Unit from the following:							
ALGEBRA III						CMAT 1213	College Algebra
ADV MATH- PRE CALC		IB Math Studies (Math Methods)				CMAT 1223	Trigonometry
PRE- CALCULUS		IB Math Studies (Math Methods)	Math 1 (Pure Math): Cambridge AICE -AS Level	Pre-Calculus	Pre-Calculus	CMAT 1233 or CMAT 1213 & 1223	Algebra & Trigonometry
ADV MATH - FUNCTIONS & STATISTICS						CMAT 1303	Introductory Statistics
PROB & STATISTICS	AP Statistics		Math 1 (Probability and Statistics): Cambridge AICE		Probability & Statistics	CMAT 1303	Introductory Statistics
CALCULUS	AP Calculus AB AP Calculus BC	IB Mathematics SL IB Mathematics HL	Math 2 (Part 1): Cambridge AICE -A Level Math 2 (Part 2): Cambridge AICE -A Level	Calculus I Calculus II	Calculus	CMAT 2103 CMAT 2113-5 CMAT 2123-5 CMAT 2113 CMAT 2116	Applied Calculus Calculus I Calculus II Differential Calculus I Integral Calculus I
AP COMPUTER SCIENCE A	AP Computer Science A						

SCIENCE = 4 Units	Advanced Placement	International Baccalaureate	Cambridge International (Honors)	Gifted & Talented	Honors	Dual Enrollment	
						Common Course Code	Common Course Name
BIOLOGY I – 1 unit						CBIO 1013 CBIO 1033	General Biology I Gen Biology I (Sci Majors)
CHEMISTRY I – 1 unit				Chemistry I	Chemistry I	CCEM 1013 CCEM 1103 CCEM 1123	General Chemistry Survey I Chemistry I Chemistry I (Sci Majors)
2 Units from the following:							
BIOLOGY II OR HUMAN ANATOMY & PHYSIOLOGY	AP Biology	IB Biology I IB Biology II	Biology II: Cambridge AICE - AS Level	Biology II	Biology II	CBIO 1013 CBIO 1033 CBIO 1023 CBIO 1043 CBIO 2213 CBIO 2214 CBIO 2223 CBIO 2224 CBIO 2103	General Biology I Gen Biology I (Sci Majors) General Biology II Gen Biology II (Sci Majors) Human Anatomy & Physiology I Human Anatomy & Physiology I (Lec/Lab) Human Anatomy & Physiology II Human Anatomy & Physiology II (Lec/Lab) Microbiology
EARTH SCIENCE						CGEO 1103 CGEO 1113	Physical Geology Historical Geology
ENVIRONMENTAL SCIENCE	AP Environmental Science	IB Environmental Systems		Environmental Science	Environmental Science	CEVS 1103	Environmental Science
PHYSICAL SCIENCE						CPHY 1023	Physical Science
CHEMISTRY II	AP Chemistry	IB Chemistry I IB Chemistry II	Chemistry II: Cambridge AICE - AS Level	Chemistry II	Chemistry II	CCEM 1003 CCEM 1013 CCEM 1103 CCEM 1123 CCEM 1113 CCEM 113 CCEM 2213	General, Organic & Biochemistry General Chemistry Survey I Chemistry I Chemistry I (Sci Majors) Chemistry II Chemistry II (Sci Majors) Organic Chemistry
PHYSICS I	AP Physics I: Algebra Based	IB Physics I IB Physics II	Physics II: Cambridge AICE - AS Level	Physics	Physics	CPHY 2113 CPHY 2114 CPHY 2133	Physics I (Algebra/Trig Based) Physics I (Lec & Lab) Physics I (Calculus Based)
AGRISCIENCE I & II (completion of both courses is required for 1 unit of credit)							

SOCIAL STUDIES = 4 Units	Advanced Placement	International Baccalaureate	Cambridge International (Honors)	Gifted & Talented	Honors	Dual Enrollment	
						Common Course Code	Common Course Name
US HISTORY - 1 unit	AP U.S. History	IB History of the Americas I		U.S. History	U.S. History	CHIS 2013/2023	American History I or II
1 Unit from the following:							
US GOVT or CIVICS	AP U.S. Government and Politics: Comparative AP U.S. Government and Politics: United States			Government	Government	CPOL 2013 CPOL 2113 CPOL 2213	Intro to American Government Intro to State & Local Government Intro to Comparative Government
ECONOMICS	AP Macroeconomics AP Microeconomics	IB Economics		Economics		ECON 2113 CECN 2213 CECN 2223	Economic Principles Macroeconomics Microeconomics
2 Units from the following:							
WESTERN CIVILIZATION						CHIS 1013/1023	Western Civilization I or II
EUROPEAN HISTORY	AP European History		History (European): Cambridge AICE - AS Level	European History			
WORLD GEOGRAPHY	AP Human Geography	IB Geography	Geography: Cambridge AICE - AS Level	World/Human Geography		CGRG 2113	World Regional Geography
WORLD HISTORY	AP World History	IB History of the Americas II	History (International): Cambridge AICE - AS Level		World History	CHIS 1113/1123	World Civilization I or II
HIST OF RELIGION						CPHL 2213	World Religions
ECONOMICS	AP Macroeconomics AP Microeconomics	IB Economics	Economics: Cambridge AICE - AS Level	Economics		ECON 2113 CECN 2213 CECN 2223	Economic Principles Macroeconomics Microeconomics
PSYCHOLOGY*	AP Psychology					CPSY 2013	Intro to Psychology
AFRICAN AMERICAN HISTORY**						CHIS 2103	African American History

*For Fall 2022 graduates and thereafter **For Spring 2022 graduates and thereafter

FOREIGN LANGUAGE = 2 Units, same language	Advanced Placement	International Baccalaureate	Cambridge International (Honors)	Gifted & Talented	Honors	Dual Enrollment	
						Common Course Code	Common Course Name
ARABIC		IB Language ab initio: Arabic IB Language B: Arabic	Arabic: Cambridge AICE - AS (Honors)			CARB 1013/1014 CARB 1023/1024	Elem Arabic I Elem Arabic II
FRENCH	AP French Language & Culture	IB Language ab initio: French IB Language B: FrenchIB French IV IB French V	French: Cambridge AICE - AS (Honors)	French III French IV		CFRN 1013/1014 CFRN 1023/1024 CFRN 2013/2014 CFRN 2023	Elem French I Elem French II Intermediate French I Intermediate French II
GERMAN	AP German Lang& Culture	IB Language ab initio: German IB Language B: German	German: Cambridge AICE - AS (Honors)	German III German IV		CGRM 1013/1014 CGRM 1023/1024 CGRM 2013 CGRM 2023	Elem German I Elem German II Intermediate German I Intermediate German II
LATIN	AP Latin	IB Classical Language		Latin III Latin IV		CLTN 1013/1014 CLTN 1023/1024 CLTN 2013 CLTN 2023	Elem Latin I Elem Latin II Intermediate Latin I Intermediate Latin II
SPANISH	AP Spanish Lang & Culture	IB Language ab initio: Spanish IB Language B: SpanishIB Spanish IV IB Spanish V	Spanish: Cambridge AICE - AS (Honors) or Spanish Literature: Cambridge AICE - AS (Honors)	Spanish III Spanish IV		CSPN 1013/1014 CSPN 1023/1024 CSPN 2013/2014 CSPN 2023	Elem Spanish I Elem Spanish II Intermediate Spanish I Intermediate Spanish II
CHINESE	AP Chinese Lang & Culture	IB Language ab initio: Chinese IB Language B: Chinese	Chinese: Cambridge AICE - AS (Honors)	Chinese III Chinese IV			
ITALIAN	AP Italian Lang & Culture	IB Language ab initio: Italian IB Language B: Italian		Italian III Italian IV			
JAPANESE	AP Japanese Lang& Culture	IB Language ab initio: Japanese IB Language B: Japanese	Japanese: Cambridge AICE - AS (Honors)	Japanese III Japanese IV			

ART = 1 Unit	Advanced Placement	International Baccalaureate	Cambridge International (Honors)	Gifted & Talented	Honors	Dual Enrollment	
						Common Course Code	Common Course Name
MUSIC (Performance)		IB Music		Talented Music I, II, III, IV Small Voice Ensemble II Choir: Intermediate Choir: Advanced Orchestra: Intermediate Orchestra: Advanced			
FINE ARTS SURVEY	AP Music Theory					CART 1013 CART 1023 CDNC 1013 CMUS 1013	Exploring the Arts Introduction to Visual Arts Dance Appreciation Music Appreciation
ART	AP Art History AP Studio Art: 2-D DesignAP Studio Art: 3-D DesignAP Studio Art: Drawing	IB Visual Arts		Art History Talented Visual Arts I Talented Visual Arts II Talented Visual Arts III Talented Visual Arts IV		CART 2103/2113 CART 1113 CART 2203	Art History I or II Art Structure/2-D Design Beginning Drawing
THEATRE (Performance)		IB Film StudyIB Theatre IB Dance		Introduction to FilmStudies Talented Theater I, II,III, IV		CTHE 2103/2113 CTHE 1013	Acting I or II Introduction to Theatre