

2016-2017 GSSM course offerings by semester

(The Course Catalog can be found on our website at:

<http://www.scqssm.org/residential/academics/course-catalog-and-faqs>)

(the * indicates that any of the courses in that area could be used to fulfill the 2.0 credits of STEM and Economics electives required for graduation)

Biology core courses

Fall	Spring
201 AP Biology	201 AP Biology
202 AP Biology	202 AP Biology

* Biology elective courses

Fall	Spring
303 Molecular Biology (above AP)	301 Vertebrate Biology (above AP)
304 Human Anatomy and Physiology (above AP)	306 Neuroscience (above AP)
309 Biological Evolution (above AP)	307 Advanced Genetics (above AP)
	308 Botany (above AP)

Chemistry core courses

Fall	Spring
100/101** Principles of Chemistry/Introduction to Chemistry: year-long	
201 AP Chemistry	202 AP Chemistry

* Chemistry elective courses

Fall	Spring
302 Organic Chemistry	301 AP Environmental Science
304 Analytical Chemistry	305 Biochemistry

** Students without a year of Chemistry begin in Principles of Chemistry. At the end of the Fall semester, students that can move up to the articulated Introduction to Chemistry course will be moved. AP Chemistry could be considered an elective course if taken as a Senior after Principles of Chemistry or Introduction to Chemistry at GSSM

Physics core courses

Fall	Spring
101 Fundamentals of Physics	102 Fundamentals of Physics
151 AP Physics 1 – A	152 AP Physics 1 – B
201 AP Physics C:M	202 AP Physics C:EM

* Physics elective courses

Fall	Spring
301 Modern Physics (above AP)	203 Fluids, Thermo and Optics
	210 Astronomy

AP Physics could be considered an elective course if taken as a Senior after Fundamentals of Physics or AP Physics I at GSSM

Mathematics core courses

Fall	Spring
102 Adv Math II	103 Adv Math III
111 Analysis I	112 Analysis II
200 Honors Calculus: year-long	
201 AP Calculus AB	202 AP Calculus AB
203 AP Calculus BC: year-long	
	303 AP Calculus BC

* Mathematics elective courses

Fall	Spring
301 Linear Algebra (even years) (above AP)	302 Abstract Algebra (odd years) (above AP)
304 AP Statistics: Probability and Statistics	305 AP Statistics: Applied Statistics
306 Multivariate Calculus (odd years) (above AP)	307 Discrete Structures (even years) (above AP)
308 Regression Analysis (above AP)	310 Number Theory (even years) (above AP)
	312 Ordinary Differential Equations (odd years) (above AP)

Computer Science core courses

Fall	Spring
101 AP Computer Science A	101 AP Computer Science A

* Computer Science elective courses

Fall	Spring
150 Introduction to Computer Graphics Using Python (above AP)	102 Data Structures using Java (above AP)
120 Programming Interaction and Visual Design (above AP)	140 Introduction of Artificial Intelligence (above AP)
201 Application Design and Implementation using C++ and Linux (above AP)	202 Game Design, Prototyping and Production (above AP)
402 Robotics (above AP)	

Engineering core courses

Fall	Spring

* Engineering elective courses

Fall	Spring
205 Introduction to Engineering Design	206 Engineering Mechanics: Statics
207 Engineering: Electronics	208 Engineering: SolidWorks
	208 Engineering: SolidWorks
	210 Engineering: Product Design

Economics and Finance core courses

Fall	Spring

* Economics and Finance elective courses

Fall	Spring
301 Technology Ventures	301 Technology Ventures
310 AP Microeconomics	320 AP Macroeconomics
	320 AP Macroeconomics
	303 Financial Analysis

Research core courses

Summer and Fall	
401 Mentored Summer Research (above AP)	

* Research: On-campus elective courses

Fall	Spring
402 Scientific Investigation I	402 Scientific Investigation I
403 Scientific Investigation II	403 Scientific Investigation II

English core courses

Fall	Spring
102 Jr English (AP English Language): year-long	
201 Sr English (AP English Literature): year-long	

English elective courses

Fall	Spring
301 Intro to Creative Writing	302 Studies in Creative Writing: Poetry
303 Drama	304 Introduction to Film
308 Intro to Philosophy	307 Christian Literature
309 Topics in Science Fiction: Literature	310 Topics in Science Fiction: Star Trek
311 Natural History and Science Writing	312 Shakespeare's Plays

History core courses

Fall	Spring
101 AP US History: year-long	

History elective courses

Fall	Spring
306 Irish History	305 WWII
309 Civil War and Reconstruction	315 Medieval
	PSY 301 AP Psychology

Government and Economics core courses

Fall	Spring
201 Government/Economics	201 Government/Economics

Government and Economics elective courses

Fall	Spring
202 AP US Government	

French core courses

Fall	Spring
101 French I: year-long	
201 French II: year-long	
301 French III: year-long	

French elective courses

Fall	Spring
401 French IV: year-long	
501 French V: year-long	
601 AP French: year-long	

Spanish core courses

Fall	Spring
201 Spanish II: year-long	
301 Spanish III: year-long	

Spanish elective courses

Fall	Spring
401 Spanish IV: year-long	
501 Spanish V: year-long	
601 AP Spanish: year-long	

Chinese core courses

Fall	Spring
101 Introduction to Chinese I	102 Introduction to Chinese II
201 Intermediate Chinese III	202 Intermediate Chinese IV

All Chinese courses are for dual credit through Coker College

Music

Fall	Spring
201 AP Music Theory	

Junior Seminar Series (each seminar meets one-hour per week)

Fall	Spring
101 Life and Leisure	101 Life and Leisure
102 Entrepreneurial Leadership	103 College Planning Seminar