



SOUTH CAROLINA GOVERNOR'S SCHOOL FOR

SCIENCE+
MATHEMATICS

Academic Policies and Course Catalog
2021-2022

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This guide may not contain all of the policies, procedures, or instructions that apply to GSSM students. In the event that a policy or procedure described herein, or its absence, improperly contradicts other policies, procedures, or statutes of the State of South Carolina, authoritative policy may take precedence without invalidating other parts of this guide. Policies that apply to students in the State of South Carolina, but may not be contained within this document, may apply to GSSM students. All policies, procedures, and statements contained herein supersede policies, procedures, statements, and practices previously published or communicated by GSSM.

Introduction

The GSSM Catalog with Academic Policies is a resource for students, faculty, and staff to find information about how academics work at GSSM.

It begins with a list by academic department of all the GSSM courses offered fall and spring semesters.

Next comes a full course description for all GSSM courses by department. Use these course descriptions to understand what the range of options is for the courses you can take at GSSM. The descriptions also list the prerequisites for each course. Use them to plan what courses you need to take.

Then comes a list of frequently asked questions about academics at GSSM. This FAQ is a great resource for understanding our curriculum and planning your courses.

Finally, we have all GSSM's academic policies and procedures, the information you need to succeed at GSSM and the academic rules you must follow. This section starts with the academic requirements you need to graduate, and explains everything from the role of your academic advisor to how Research & Inquiry work.

The FAQ and academic policies and procedures are also included in The GSSM Student Handbook.

Students are responsible for understanding and following these policies. The catalog isn't just a rulebook, though. Students, working with faculty, staff, and their families, should use it understand all GSSM has to offer academically. Our commitment is both to academic excellence and to helping every GSSM student get the most out of their GSSM education.

Section 1: GSSM Course Offerings by Semester (2021-2022)

As you read through the course offerings be sure to consider the following elements:

- 1) Number of semesters. Some courses, like CSC 130 Data Structures and Algorithms, are one-semester courses. Others, like ASL 101 Introduction to American Sign Language 1, are year-long courses. Yet other courses, like CHE 201 and 202 AP Chemistry, are two-semester course sequences.
- 2) Level of the course. Some courses, like MAT 303 AP Calculus, are AP courses. These are clearly marked with the letters "AP" after the course numbers. Other courses, like SPA 703 Topics in Hispanic Culture and Linguistics, are listed as "Above AP". Above AP means that the course requires an AP course as a prerequisite or there is no AP course sanctioned by College Board in that area. Some courses, like ECON 210 Principles of Economics: Macroeconomics, are listed as "Dual Credit". Any course not designated as AP, Above AP, or Dual Credit, is at the honors level. An example of an honors level course is MUS 110 Chamber Orchestra 1.
- 3) Years the course is offered. Most courses are offered every year. Some courses are offered every other year. For example, HIS 309 Civil War and Reconstruction is offered only in the spring of odd numbered years like spring 2023, spring 2025, and spring 2027.
- 4) Course format (in-person/virtual). Most courses are offered live in-person. However, some courses are offered in other formats. Any course offered in a different format will be designated appropriately. For example, ENGIN 209 Biomedical Engineering is listed as a virtual course.

American Sign Language (ASL)

Fall	Spring
101 Introduction to American Sign Language I: year-long (Virtual Synchronous Course)	
201 Introduction to American Sign Language I: year-long (Virtual Synchronous Course)	

Biology (BIO)

Fall	Spring
202 AP Biology	201 AP Biology
303 Molecular Biology (above AP)	305 Introduction to Microbiology (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 (CHE)

Fall	Spring
100 Principles of Chemistry: year-long	
201 AP Chemistry	202 AP Chemistry
300 Introduction to Organic and Biochemistry (above AP)	150 Molecular Spectroscopy
304 Analytical Chemistry (above AP)	300 Introduction to Organic and Biochemistry (above AP)
401 Research in Microwave Spectroscopy	306 Computational Chemistry (above AP)
403 Research in Computational Drug Design	308 Introduction to Inorganic Chemistry (above AP)

Chinese (CHI)

Fall	Spring
101 Introduction to Chinese I	102 Introduction to Chinese II (dual credit)
201 Intermediate Chinese III	202 Intermediate Chinese IV (dual credit)

Computer Science (CSC)

Fall	Spring
101 Introduction to Computer Science (AP CS A)	102 Advanced Computer Programming (AP CS A)
110 Computer Science I: Python for Scientist (dual credit)	110 Computer Science I: Python for Scientist (dual credit)
111 Computer Science II: C++ Applications (dual credit)	130 Data Structures and Algorithms
120 Interactive Visual Programming using Processing	140 Introduction of Artificial Intelligence
130 Data Structures and Algorithms	160 Introduction to Computer Networking
170 Introduction to Database Design	202 Game Design, Prototyping and Production

Engineering (ENGIN)

Fall	Spring
102 Engineering Disciplines and Skills (dual credit)	102 Engineering Disciplines and Skills (dual credit)
141 Computer Programming 1 with MATLAB (dual credit)	141 Computer Programming 1 with MATLAB (dual credit)
205 Applications of Engineering Design	206 Engineering Mechanics: Statics
212 Mechanical and Aerospace Engineering ¹ (virtual course)	207 Engineering: Electronics
CSC402 Robotics (<i>Please use CSC, not ENGIN</i>)	208 Engineering Design and Modeling (dual credit)
	209 Biomedical Engineering ¹ (virtual course)
	212 Mechanical and Aerospace Engineering ¹ (virtual course)

1. ENGIN 209 and 212 are taught online with periodic live instruction via the GSSM Accelerate Program.

English (ENG)

Fall	Spring
111 English Composition and Rhetoric I (dual credit)	112 English Composition and Rhetoric II (dual credit)
201 Sr English (AP English Literature): year-long	
303 Studies in Dramatic Literature (even years)	304 Introduction to Film
306 African American Literature	305 Studies in Creative Writing: Fiction <FULL>
307 Studies in Creative Writing: Nonfiction	310 Gender Studies <FULL>
308 Introduction to Philosophy <FULL>	313 Eco-Fiction
309 Topics in Science Fiction: Literature <FULL> (odd years)	
312 Shakespearean Drama	

French (FRE)

Fall	Spring
	101 French I: year-long
	201 French II: year-long
	301 French III: year-long
	401 French IV: year-long
	601 AP French: year-long

General Science (SCI)

Fall	Spring
PHY 100 Physics in the Arts	PHY 210 Astronomy <FULL>
SCI 301 AP Environmental Science	

German (GER)

Fall	Spring
	200 German II: year-long
	300 German III: year-long

Government, Economics and Finance (HIS, ECON & EFI)

Fall	Spring
HIS 201 Government/Economics ¹ <i>also available summer (mid-June to end of July) and interim</i>	HIS 201 Government/Economics ¹ <i>also available summer (mid-June to end of July) and interim</i>
HIS 202 AP US Government	HIS 203 AP Comparative Governments
ECON 211 Principles of Economics: Microeconomics (dual credit) (virtual synchronous course)	ECON 210 Princ of Economics: Macroeconomics (dual credit) (virtual synchronous course)
EFI 301 Technology Ventures	EFI 303 Quantitative Financial Analysis (odd years only)
	EFI 330 International Economics (even years only)

1. HIS 201 may be taught on-campus or online during the fall and spring semesters.

History (HIS)

Fall	Spring
101 AP US History	
303 Native American Studies (odd years only)-<Full>	304 Colonial America (even years only)
306 Ethics, Beauty, & the Environment (even years only)	309 Civil War and Reconstruction (odd years only)

Mathematics (MAT)

Fall	Spring
101 Essentials for Calculus: year-long	
102 Foundations 1 for Calculus	103 Foundations 2 for Calculus
111 Concepts 1 for Calculus	112 Concepts 2 for Calculus
200 Honors Calculus: year-long	
201 AP Calculus AB	202 AP Calculus AB
203 AP Calculus BC: year-long	
303 AP Calculus BC	302 Abstract Algebra (above AP) (odd years only)
304 Linear Algebra (above AP) (even years only)	306 Multivariable Calculus (above AP) (even years only)
304 AP Statistics: Probability and Statistics	305 AP Statistics: Applied Statistics
307 Discrete Structures (above AP) (odd years only)	310 Number Theory (above AP) (even years only)
	312 Ordinary Differential Equations- (above AP) (odd years only)

Music (MUS)

Fall	Spring
110 Chamber Orchestra 1	110 Chamber Orchestra 1
111 Chamber Orchestra 2	111 Chamber Orchestra 2
120 Concert Choir 1	120 Concert Choir 1
121 Concert Choir 2	121 Advanced Concert Choir 2
210 Chamber Orchestra 3	210 Chamber Orchestra 3
211 Chamber Orchestra 4	211 Chamber Orchestra 4
220 Concert Choir 3	220 Concert Choir 3
221 Concert Choir 4	221 Concert Choir 4
301 AP Music Theory: year-long	

Physics (PHY)

Fall	Spring
151 AP Physics 1 – A	152 AP Physics 1 – B
201 AP Physics C:M	202 AP Physics C:EM
301 Modern Physics (above AP)	203 Fluids, Thermo and Optics

Psychology (PSY)

Fall	Spring
	301 AP Psychology<Full>

Research & Inquiry (RES)

Fall	Spring
401 Mentored Summer Research (above AP) (includes summer)	
410 Advanced Research & Inquiry Communication	

Spanish (SPA)

Fall	Spring
	201 Spanish II: year-long
	301 Spanish III: year-long
	401 Spanish IV: year-long
	601 AP Spanish: year-long
	703 Topics in Hispanic Culture and Linguistics (above AP)

Virtual Electives (ENGIN)

Fall	Spring
ENGIN 212 Mechanical and Aerospace Engineering	ENGIN 209 Biomedical Engineering
	ENGIN 212 Mechanical and Aerospace Engineering

Visual Arts (ART)¹

Fall	Spring
ART 110 Introduction to Ceramics	ART 110 Introduction to Ceramics
ART 111 Advanced Ceramics	ART 111 Advanced Ceramics
ART 120 2D Art Exploration	ART 120 2D Art Exploration
ART 121 Advanced 2D Art Exploration	ART 121 Advanced 2D Art Exploration
ART 301 AP Art History	

1. These classes will be reserved first for students who need an art credit to graduate.

Students are automatically registered for the following seminars

Junior Seminar Series (LLS)

Fall	Spring
101 Life and Leisure Skills	103 College Planning Seminar I
102 Academic Transition	105 Everyday Survival Skills
	106 Public Speaking
	107 Preparing for Research Experiences

Senior Seminar Series (LLS)

Fall	Spring
104 College Planning Seminar II	

Section 2: Course Descriptions

American Sign Language

ASL101-H

Introduction to American Sign Language I (A Full Year – 1.0 unit)

This course taught online with synchronous instruction.

ASL I is an introductory language course intended for students with little or no knowledge of American Sign Language. American Sign Language (ASL) is the language used by the Deaf Community in the United States and parts of Canada. This course uses a communicative methodology in an effort to promote the five 'Cs' of second language acquisition: Communication, Cultures, Connections, Comparisons and Communities. By the end of the academic year, students should have a greater understanding of cultural and historical topics associated with Deaf Culture and American Sign Language. Students should expect to discuss basic topics and cultural events in the present, past, and future; describe people and places; and talk about daily activities. The course includes projects and presentations on Deaf Culture in America; role play, interactions with the Deaf Community and field trips to the South Carolina School for the Deaf and Blind.

ASL201-H

Introduction to American Sign Language II (A Full Year – 1.0 unit)

This course taught online with synchronous instruction.

ASL II is an interactive, proficiency-oriented and student-centered course that builds on the language proficiency and cultural knowledge/awareness acquired in American Sign Language I. This course uses a communicative methodology in an effort to promote the five 'Cs' of second language acquisition: Communication, Cultures, Connections, Comparisons and Communities. By the end of the academic year, students should have a greater understanding of cultural and historical topics associated with Deaf Culture and American Sign Language. Students should expect to discuss topics and cultural events in the present, past, and future; describe people and places; and talk about daily activities. The course includes projects and presentations on Deaf Culture in America; role play, interactions with the deaf community and field trips to the South Carolina School for the Deaf and Blind.
PREREQ: ASL I or permission of instructor.

Biology

BIO201-AP (AP Bio)

Principles of Biology I (AP BIO) (SPRING Semester – 0.5 unit)

This course covers selected topics that are fundamental to an understanding of biology. Important concepts that may have been introduced in other courses will be covered in depth and expanded with laboratory experiences and discussions of relevant research. Units covered in this course will include discussions of inheritance, evolution and mechanisms of selection, speciation, origin of life, diversity of life, animal behavior, ecology, and energy production in plants and animals. *Includes a 2-3 hour weekly lab. See College Credit Hours Agreements at end of the course descriptions.*

BIO202-AP (AP Bio)

Principles of Biology II (AP BIO) (FALL Semester – 0.5 unit)

This course will examine selected topics that are fundamental to an understanding of biology. Important concepts that may have been introduced in an introductory course will be covered in depth and expanded upon with laboratory and discussions of current research findings in these areas. Units covered in this semester will include discussions of basic biochemistry, cell structure and function, mitosis, meiosis, DNA replication, transcription, translation, regulation of gene expression, and current molecular biology techniques. *Includes a 2-3 hour weekly lab. See College Credit Hours Agreements at end of the course descriptions.*

BIO303-H (above AP)

Molecular Biology of the Cell (FALL Semester – 0.5 units)

The purpose of this course is to acquaint the student with selected topics in the molecular biology of cells with a focus on eukaryotes. The course format is a combination of lectures and discussions of current research articles with student participation as an important element. Laboratory work will emphasize important concepts and techniques used in the study of cellular components and will involve extensive hands-on manipulations. In-class tests and out-of-class problem sets will require an understanding of experimental design and interpretation of data. *Includes a 2-3 hour weekly lab. PREREQ: BIO201-AP and BIO202-AP or completion of AP Biology. See College Credit Hours Agreements at end of the course descriptions.*

BIO304-H (above AP)

Human Anatomy and Physiology (FALL Semester – 0.5 unit)

Students will investigate the functional anatomy and control mechanisms affiliated with the various organs of the human body. Cell structure and tissue specificity will be integrated with the function of these cells in their respective organ systems. Laboratory work will involve experiments designed by and performed on the students. There will be an emphasis on exercise physiology and clinical abnormalities and their effects on whole body homeostasis. The course work includes various case studies to help students understand the application of topics covered in class. New techniques involved in medicine will be studied using web-based curriculum *Includes a 2-3*

hour weekly lab. *PREREQ: BIO202-AP with concurrent enrollment in BIO201-AP or completion of AP Biology. See College Credit Hours Agreements at end of course descriptions.*

BIO305-H (above AP) **Principles of Microbiology (SPRING semester – 0.5 unit)** The objective of this course is to introduce the students to the microscopic world of bacteria, algae, fungi, protozoa, and virus and their role in diseases as well as the concept of pathogenesis and host immune defense mechanisms. This course will also include microbial cellular structures, metabolic pathways, regulatory signals, and genetic exchange mechanism, In addition, evolutionary processes that led to antibiotic resistance, xenobiotic degradation and the co-evolution of hosts and parasites will also be studied. Finally, a brief look at the importance of bacteria in soil, water, food and the industrial waste will also be studied. This course will include a two hour lab/week and a group project to isolate microorganisms with unique characteristics from natural environment. *Includes a 2-3 hour weekly lab. PREREQ: BIO202-AP with concurrent enrollment in BIO201-AP or completion of AP Biology.*

BIO306-H (above AP) **Introduction to Neuroscience (SPRING Semester – 0.5 unit)** This course serves as an introduction to the basics of nervous system functions and dysfunctions. This class is open only to students with an A or high B in AP Biology. The course begins with the cellular and molecular biology of neurons and glial cells, including the study of neuronal cell structure, the propagation of nerve impulses and transfer of information between nerve cells (action potentials and synaptic transmission). The course then follows the effect of drugs on this process and the development of nerve cells into the brain and spinal cord as well as how the brain receives and processes sensory information and how it acts on that information through various motor and sensory systems. Other topics covered included how behavior, emotion and memory emerge from brain function. Teaching methods included lectures, discussions, case studies and talks by renowned neuroscientists. This course will also include hands-on as well as virtual labs. *Includes a 2-3 hour weekly lab. PREREQ: BIO202-AP with concurrent enrollment in BIO201-AP or completion of AP Biology.*

BIO307-H (above AP) **Advanced Genetics (SPRING Semester– 0.5 unit)** This course builds on the basic understanding of DNA and genetics introduced in BIO 201 and BIO 202. Through class discussion, journal articles, homework problems, and lab experiments students will improve their understanding of inheritance and genomics. Topics to be discussed include patterns of inheritance, eukaryotic chromosomal mapping, gene expression, epigenetic inheritance, mutation and repair, and quantitative genetics. This is a lab course. Includes a 2-3 hour weekly lab. *PREREQ: completion of AP Biology or completion of BIO 201-AP.*

BIO308-H (above AP) **Botany (SPRING Semester – 0.5 unit)** This course introduces students to the basics of Botany, including what characterizes a plant and how to identify plants in our local communities. Topics discussed will include plant diversity, structure, physiology, evolution, and ecology. Laboratory work will emphasize plant structure, function, and field identification. Optional field trips to different plant communities will be taken and attendance is encouraged. *Includes a 2-3 hour weekly lab. PREREQ: completion of AP Biology or completion of BIO202-AP and concurrent enrollment in BIO201-AP.*

BIO309-H (above AP) **Biological Evolution (FALL Semester– 0.5 unit)** This course will explore the evolutionary process in detail and its place as the cornerstone of modern biology. Laboratory experiences and directed readings will allow the student to make connections with the other biological sciences. Topics include the evidence for evolution, the mechanisms of evolutionary change, the measurement of evolutionary change, speciation, and the analysis of phylogeny. *Includes a 2-3 hour weekly lab. PREREQ: BIO201-AP or completion of BIO202-AP and completion of AP Biology.*

Chemistry

CHE100-H **Principles of Chemistry (A Full Year Course – 1.0 unit)** This course will examine selected topics that are fundamental to an understanding of chemistry. Students will investigate the electronic structure of atoms, chemical bonding, chemical formulas, mass/volume relationships in chemical reactions, gas laws, energy changes in chemical reactions, molecular geometry, acid/base/salt reactions, colligative properties, an introduction to organic chemistry and other selected subjects. Hands-on laboratory work will reinforce concepts as well as develop skills in using standard laboratory equipment. *Includes a 2-3 hour weekly lab.*

CHE150-H **Molecular Spectroscopy (SPRING Semester – 0.5 unit)** This course will act as an overview of molecular spectroscopy, with a particular emphasis on the microwave region of the spectrum. Molecular spectroscopy is the use of electromagnetic radiation to study the structure and motion of molecules. It is impossible to “see” individual molecules, but an immense amount of information can be learned by studying the frequencies and intensities that they absorb and emit. After an overview of quantum mechanics and ultraviolet, visible, infrared, and nuclear magnetic resonance spectroscopy, students will undertake a laboratory-based research project in the area of microwave spectroscopy. They will use GSSM's custom-built chirped-pulse microwave spectrometer to design, implement, and analyze their individualized research project. *Includes a 2-3 hour weekly lab. PREREQ: GSSM CHE100-H or CHE201-AP or permission of instructor.*

- CHE201-AP (AP Chem)** **Advanced Chemistry I (AP Chem)** (FALL Semester – 0.5 unit)
This course will explore topics in greater depth: quantum mechanics, chemical bonding, molecular geometry, kinetics and chemical equilibrium. Laboratory experiences will include traditional wet lab methods, microscale, and the use of modern electronic instrumentation. *Includes a 2-3 hour weekly lab. PREREQ: One unit in Chemistry. Enrollment is also based on math assessment or with permission of instructor. See College Credit Hours Agreements at end of the course descriptions.*
- CHE202-AP (AP Chem)** **Advanced Chemistry II (AP Chem)** (SPRING Semester – 0.5 unit)
A continuation of Chemistry 201-AP, this course is necessary for a student to take the Advanced Placement Chemistry Test. This course will explore in more depth the topical areas of acid-based chemistry, thermodynamics, oxidation-reduction reactions, and electrochemistry. *Includes a 2-3 hour weekly lab. PREREQ: CHE201-AP. See College Credit Hours Agreements at end of the course descriptions.*
- CHE300-H (above AP)** **Introduction to Organic and Biochemistry** (FALL and/or SPRING Semester depending on interest– 0.5 unit)
This is a one-semester course and will provide an introduction to the fundamental concepts of organic chemistry and biochemistry. Students will explore the name, structure and properties of certain classes of organic compounds. Also to be considered are some important biological processes related to enzymes, bioenergetics, intermediary metabolism, body fluids, and nutrition. *Includes a 2-3 hour weekly lab. PREREQ: CHE100-H with permission of instructor, AP Chemistry, or permission by instructor.*
- CHE304-H (above AP)** **Introduction to Analytical Chemistry** (FALL Semester – 0.5 unit)
This course will expose students to selected topics in both quantitative and instrumental analysis. The quantitative portion of the course will focus on advanced methods of volumetric analysis as well as statistics commonly used to properly analyze data. The instrumental portion of the course will focus on the theory and implementation of instruments that find widespread use in chemistry. Experiments will allow students to gain experience using various equipment that will likely be found in any standard analytical chemistry laboratory. *Includes a 2-3 hour weekly lab. PREREQ: Completion of AP Chemistry.*
- CHE306-H (above AP)** **Computational Chemistry** (SPRING Semester – 0.5 unit)
This course will act as an introduction to computational modeling of chemical and biological molecules. Using peer reviewed open-source software, we will learn how to calculate physical and chemical properties of molecules and how to simulate the motion of molecular systems. Applications to fundamental chemistry, biochemistry, medicinal chemistry, and bioengineering will be explored. While the underlying theory of modeling will be discussed in depth, we will be using existing software tools, not building them, so no computer programming knowledge is necessary. This is a hands-on course that will result in the student producing, under the guidance of the instructor, a project that demonstrates their understanding of modeling theory through the application of modeling tools to a real-world research problem. *Includes a 2-3 hour weekly lab. PREREQ: Completion of AP Chemistry and MAT201-AP or COREQ MAT203.*
- CHE308-H (above AP)** **Introduction to Inorganic Chemistry** (SPRING Semester – 0.5 unit)
This course will expose students to selected subjects in inorganic chemistry. Topics to be explored will include metal bonding, coordination chemistry, group theory, and organometallic chemistry with a focus on transition metals. Laboratory exercises will cover different classes of qualitative analysis as well as synthesis and characterization of transition metal complexes. *Includes a 2-3 hour weekly lab. PREREQ: Completion of AP Chemistry.*
- CHE401-H** **Research in Microwave Spectroscopy** (Fall Semester – 0.5 unit)
Students will complete a research project in microwave spectroscopy that has never been done before. The course will provide a hands-on, active-learning experience using GSSM's state-of-the art microwave spectrometer, an instrument used to discover the shapes of molecules. Activities will include using modern instrumentation, using research software to analyze data sets, performing quantum chemical calculations, and formulating conclusions from the data. Students will undertake an original research project similar to an advanced undergraduate project. This fulfills the Research and Inquiry Requirement at GSSM. *Course meets for 2 weekly labs (and no lectures). PREREQ: CHE100-H or CHE201-AP or permission of instructor.*
- CHE403-H** **Research in Computational Drug Design** (Fall Semester – 0.5 unit)
Modern pharmaceutical drug design is a multidisciplinary endeavor at the interface between medicine, chemistry, biology, and computer science. Using the tools and theory of computational biochemistry, this opportunity aims to guide the student through research-based project creation and execution to ultimately develop a novel pharmaceutical that attempts to address a real-world need. No programming experience is required. This fulfills the Research and Inquiry Requirement at GSSM. *Includes a 2-3 hour weekly lab. PREREQ: CHE100-H or CHE201-AP or permission of instructor.*

Chinese

CHI101-E
(Dual Credit)
3 hours of
college credit

Introduction to Chinese I (FALL Semester - 0.5 unit)

This is the first half introductory course to Mandarin Chinese. It provides an introduction to the fundamentals of the Mandarin Chinese language. It emphasizes pronunciation, basic everyday conversational proficiency, principles of character formation, vocabulary and elements of grammar needed to develop communicative competence in Chinese at a basic level. In addition, it aids the students in understanding the connection between Chinese language and culture; help the students develop survival skills in an authentic Chinese setting. Prerequisite: None.

CHI102-E
(Dual Credit)
3 hours of
college credit

Introduction to Chinese II (SPRING Semester – 0.5 unit)

This is the second half introductory course to Mandarin Chinese. It provides an introduction to the fundamentals of the Mandarin Chinese language. It emphasizes pronunciation, basic everyday conversational proficiency, principles of character formation, vocabulary and elements of grammar needed to develop communicative competence in Chinese at a basic level. In addition, it aids the students in understanding the connection between Chinese language and culture; help the students develop survival skills in an authentic Chinese setting.

PREREQ: CHI101 or previous Chinese credits.

CHI201-E
(Dual Credit)
3 hours of
college credit

Intermediate Chinese III (FALL Semester - 0.5 unit)

This is the first half intermediate level course in Mandarin Chinese. As the continuation of Elementary college credit Chinese, this course focuses on reinforcing four language skills: speaking, listening, reading and writing to enhance each student's oral and written communication ability in real Chinese settings. Different aspects of Chinese culture are included. Prerequisite: CHI 102 or the equivalent.

CHI202-E
(Dual Credit)
3 hours of
college credit

Intermediate Chinese IV (Spring Semester - 0.5 unit)

This is the second half intermediate level course in Mandarin Chinese. As the continuation of Elementary Chinese, this course focuses on reinforcing four language skills: speaking, listening, reading and writing to enhance each student's oral and written communication ability in real Chinese settings. Different aspects of Chinese culture are included. *PREREQ: CHIN III or permission of instructor.*

Computer Science

Note: Students taking CSC101, CSC110, or ENGIN141 are strongly advised not to take a second computer science course that same semester.

CSC101-AP
(AP CS A)

Introduction to Computer Science (AP CS A) (FALL Semester – 0.5 unit)

General concepts of sequential execution, conditional execution, iterative structures, recursive techniques and algorithm development are introduced in this one-semester course. In addition, general principles of program construction and object-oriented programming, are covered thoroughly. The activities in class include writing algorithms for specific application problems and implementing the code for these projects. The primary focus of outside-of-class work is to write functioning, efficient, well-documented, well-constructed programs. *If no computer science credit was earned prior to enrolling at GSSM and a student enrolls in this course, the student will be required to enroll and earn credit in an additional computer science course in order to meet the state computer science requirement of 1.0 units.*

CSC102-AP
(AP CS A)

Advanced Computer Programming (AP CS A) (SPRING Semester – 0.5 unit)

A review of arrays, classes, and recursion will preface the continuation of the study of computer science in the second semester. The concepts of object oriented programming including class declaration and design, inheritance, interfaces and polymorphism are integral to programming activities in this course. Abstract data types will be introduced and implemented by the study of the List interface and Java Linked Lists. Sorting and searching algorithms will be examined in order to determine efficiency and storage considerations. Students will be assigned exercises including short answer and free response projects similar to those found on the AP CS A exam.

*PREREQ: CSC101-AP or permission of instructor. * (Completion of this course earns the final 0.5 credit of the 1.0 credit provided the CSC101 & CSC102 AP course sequence.)*

CSC110
(Dual Credit)
4 hours of
college credit

Computer Science I: Python for Scientist (EITHER Semester – 1.0 unit)

This course introduces Python, a modern, powerful scripting language used throughout the technology industry, especially in film and games. Learn how to use Python from writing utility scripts to developing custom 2D and 3D graphics applications. *This course will satisfy the state requirement of 1.0 units of computer science since it is dual enrolled. This course will meet 4 times a week.*

- CSC111 (Dual Credit) 4 hours of college credit** **Computer Science II: C++ Applications** (FALL Semester – 1.0 unit)
Students will examine the differences between machine code, assembly language, interpreters, and compilers. The students will have hands-on experience of writing the code to simulate machine code and designing and implementing a compiler for a SIMPLE language based on that machine code. Building this compiler includes the following steps: lexical analysis, syntax analysis, data type checking and building a symbol table, machine code generation. Students in this course will work in teams to develop a timeline and code for their design and testing of the system. Students will learn how to program using other computer languages such as C++, PC Scheme, and Python in order to compare these languages with each other and with our SIMPLE language. *PREREQ: CSC130 or permission of instructor. This course will meet 4 times a week.*
- CSC120-H** **Interactive Visual Programming using Processing** (FALL Semester– 0.5 unit)
Students will explore computer graphics, mathematics, and art using the Processing programming language. Processing is an environment for learning the fundamentals of computer programming within the context of the visual arts. Topics include creation of 2d and 3d images, animations, image processing including mathematical and data visualization, and interaction with external devices. *PREREQ: CSC101-AP, CSC110, ENGIN141 or completion of AP Computer Science A or permission of instructor. COREQ: CSC130 or permission of instructor.*
- CSC130-H** **Data Structures and Algorithms** (EITHER Semester– 0.5 unit)
A second course in computer science in which students are introduced to algorithm design and analysis, big-Oh notation, and algorithm classification by efficiency and correctness. The course covers basic algorithm design, strategies, mathematical analysis, and approaches to problem solving. Topics include algorithms for searching and sorting, graph theory and graph algorithms, and other computational problems. This course is designed for students who already know a programming language and would like to continue taking advanced electives in computer science. *PREREQ: CSC101 and CSC102, or CSC 110, or as a COREQ: CSC102, or permission of instructor.*
- CSC140-H** **Introduction to Artificial Intelligence** (SPRING Semester – 0.5 unit)
This course focuses on the basic algorithms of Artificial Intelligence. Problem modeling methods include data classification, regression analysis, clustering, and time series analysis. Supervised and unsupervised training as well as stochastic and deterministic training will be employed in projects. Teach paper cups to win a simple game based on Nim. Learn several methods for normalization of data and error calculation. Different methods of training are applied to classic problems such as the traveling salesman problem and the knapsack problem. *PREREQ: CSC130 or permission of instructor.*
- CSC160-H** **Introduction to Computer Networking** (SPRING Semester– 0.5 unit)
This course is a survey of the underpinnings of computer networks. It will cover the basics of network architecture, topology, protocols, and telecommunications. Students will learn how a request on a web browser is packaged and transferred over the Internet to a destination address and how the results of the request are processed and delivered back again. By the end of the course students will have demonstrated a competence in IP addressing, packet tracing, OSI and TCP/IP models, and configuring routers and switches to use networking protocols. The course is a mixture of discussion and hands-on activities.
- CSC170-H** **Introduction to Database Design** (FALL Semester – 0.5 unit)
In this course, students will learn to construct database(s) and the techniques necessary to manipulate and maintain the data stored therein. Using readily available DBMS, students will study database architecture, methods of modeling data, schemas, and query languages. By the end of the course students will have demonstrated a competence in writing SQL queries, applying normalization techniques to datasets, database design, manipulating and navigating relational databases, and representing an information system using an entity-relationship diagram (ERD). *COREQ: CSC130 or permission of instructor.*
- CSC202-H** **Game Design, Prototyping, and Production** (SPRING Semester – 0.5 unit)
This course will focus on the rules and methods of game design, which remain fairly constant regardless of the technology used to develop a game. While technology will play a significant role in the course, technological details will not be the focus. Students will study and design games of all sorts: card games, dice games, athletic games, story games, and video games. Students will craft a game, build a video game prototype, and write a game design document detailing the workings of their creation. *COREQ: CSC130 or permission of instructor.*

Engineering

- ENGIN102 (Dual Credit)**
3 hours of college credit
- Engineering Disciplines and Skills** (EITHER Semester – 0.5 Units)
This course provides a solid foundation of skills to solve engineering problems. Students demonstrate problem solving techniques with spreadsheets, dimensions and units, and use modeling techniques and interpret validity of experimental results. Students design projects on multi-discipline teams. The course introduces professional and societal issues appropriate to engineering. Various forms of technical communication are emphasized. COREQ: MAT102-H or above, or permission of instructor.
- ENGIN141 (Dual Credit)**
3 hours of college credit
- Computer Programming 1 with MATLAB** (EITHER Semester – 1.0 unit)
Involves programming and problem solving using MATLAB. General concepts of sequential execution, conditional execution, iterative processes, and recursive techniques are introduced in this one-semester course with the objective of solving problems in science and engineering. Matrix manipulation, plotting of functions and data, implementation of algorithms, and creation of user interfaces comprise the curriculum for this course. The activities in class include designing and implementing computerized applications to solve problems from different disciplines. The primary focus of outside-of-class work is to design, develop, and write the commands to find these solutions. *PREREQ: ENGIN102 or permission of instructor. This course will satisfy the state requirement of 1.0 units of computer science since it is dual enrolled.*
- ENGIN205-H**
- Applications of Engineering Design** (Fall Semester – 0.5 unit)
For students interested in learning more about various engineering disciplines. If you have had the 2 PLTW courses, “Intro to Engineering Design” and “Principles of Engineering,” you might consider a more advanced engineering course. Students do projects using 3D design in SolidWorks, electronics and programming of the Arduino, robotics, and engineering design.
- ENGIN206-H**
- Engineering Mechanics: Statics** (SPRING Semester – 0.5 unit)
This course studies the mechanics of static structures. Topics covered in this course include vector force systems, systems in equilibrium, structural analysis of trusses and frames, friction, distributed forces, center of gravity, and moment of inertia. Technical drawing and design skills will be used to build a bridge structure out of bass wood and test its strength. *PREREQ: PHY151-AP, PHY201-AP or permission of instructor. Includes a 2-hour weekly lab. This course may or may not be offered depending on the availability of an instructor.*
- ENGIN207-H**
- Engineering: Electronics** (SPRING Semester – 0.5 unit)
Students are introduced to the principles of analog and digital electronics. In addition to learning about simple analog circuits, the course also covers a variety of topics including Boolean algebra, basic gates, logic circuits, flip-flops, registers, digital circuits, counters, interfacing with analog devices, and programming an FPGA board. *Includes a 2-hour weekly lab*
- ENGIN208 (Dual Credit)**
3 hours of college credit
- Engineering Design and Modeling** (SPRING Semester – 0.5 unit)
Students join the 3D printing revolution in learning how to create their designs in SolidWorks, including sketching, part and assembly creations, and creating drawings with which to communicate their ideas. A final project will include 3D printing their design. This course is dual enrolled.
- ENGIN209-H**
- Biomedical Engineering** (SPRING Semester – 0.5 unit)
This course taught online with periodic live instruction via the GSSM Accelerate Program.
This course introduces students to the different sub-specialties of biomedical engineering (BME) including bioelectricity, biomedical instrumentation, biomaterials, and biomechanics. Through hands-on labs, design projects, problem sets, and research article review, students explore and experience the engineering design process, problem solving and troubleshooting in the field of BME. Some questions that might be addressed are: “how are electrical signals from the heart measured outside the body?”, “is there a way to design high heel shoes that don’t hurt women’s feet?”, and “how do engineers design heart valves that only allow blood flow in one direction?”.
- ENGIN212-H**
- Mechanical and Aerospace Engineering** (FALL/SPRING Semester – 0.5 unit)
This course taught online with periodic live instruction via the GSSM Accelerate Program.
This course introduces students to the fields of mechanical and aerospace engineering. It integrates engineering design, core math and science concepts needed to solve problems related to aerospace and mechanical engineering as well as other engineering disciplines. The course includes historical context and addresses the following topics: statics, thermodynamics, fluid dynamics, materials, and mechanics of flight. Through the use of hands-on labs, design projects, problem sets, and demonstrations students learn how engineers use mathematics and science to design efficient and beneficial devices such as automobiles, power plants, airplanes, machinery, and heating/cooling equipment. Students have opportunities to experiment, calculate, compute, design, and build as they explore and solve problems.

CSC402-H**Robotics** (FALL Semester – 0.5 unit)

General principles of engineering design including mechanical, electrical, logic and control subsystems of robotics are applied to building robots. Project planning and team cooperation are critical skills that are developed in the course, including creating timelines, determining critical path, communicating with other team members, and presenting ideas and solutions to a customer or sponsor. Project members learn how to employ team talents to maximize productivity and minimize the time necessary to complete the task. Each robot microcomputer system must be programmed to control the robot's movement and sensors. The main objective for the course is to use engineering and management principles to build a robot to accomplish a set of specific tasks. A student can sign up for the course in their junior or senior year. Juniors who take robotics and would like to continue working with the robotics teams are encouraged to do so as a team member, not a class member in their senior year.

English

ENG111
(Dual Credit)
3 hours of
college credit
English Composition and Rhetoric I (FALL Semester – 0.5 credits)

English 111 is the first half of the required two-course sequence in composition. This course introduces students to the modes of writing, with an emphasis on exposition and argumentation. The course also reviews basic processes of composing: inventing, planning, drafting, and revising. Students will learn how to develop ideas in a clear and logical manner, communicate their ideas coherently to their intended audience, and write in a correct and effective way. In addition to writing several in-class essays and short papers, students will learn the techniques and conventions of academic research. They will participate in at least one session on library and information technology. Fiction and nonfiction readings will provide discussion material and starting points for their writing.

ENG112
(Dual Credit)
3 hours of
college credit
English Composition and Rhetoric II (SPRING Semester – 0.5 credits)

English 112 is the second half of the required two-course sequence in composition. This course advances students' critical reading and writing skills by exploring how writing creates knowledge and shapes meaning; therefore, student writing will involve both print and digital formats. Throughout the semester students will define terms, conduct research, evaluate and synthesize evidence in order to create clearly written, sustained arguments. Readings for each section of ENG102 will explore a specific and unifying theme or question, and may include readings in fiction and non-fiction. *PREREQ: ENG111.*

ENG201-AP
(AP Eng Lit)
GSSM Senior English (AP Eng Lit) (A Full Year Course – 1.0 unit)

Senior English focuses on great works of Western literature, as they exemplify the characteristics of major periods in the development of Western civilization. In addition, students will practice the skills of speaking, listening, reading, and writing to become better readers, writers, and thinkers. The course will include frequent reading responses and journal entries, as well as several major papers. Students will also work in groups to prepare dramatic and informational presentations to the class. *PREREQ: ENG112.*

ENG303-H**Studies in Dramatic Literature** (FALL Semester, offer **even** numbered years – 0.5 unit)

Students taking this semester elective learn about drama by presenting a play before an audience. Students collaborate on all aspects of putting on a drama production including acting, rehearsals, stage management, set design, and costuming. A minimum of four students will be required for this course to be offered. Plays performed in the past include *The Importance of Being Earnest*, *A Streetcar Named Desire*, and *The Odd Couple*. *COREQ: ENG111.*

ENG304-H**Introduction to Film** (SPRING Semester – 0.5 unit)

This elective is devoted to the understanding and appreciation of the art of film. Students will watch milestones of cinema history, learning to analyze the various language systems involved such as mise en scene, of editing, acting, screenwriting, camera angles, and cinematography, as well as the ideological underpinnings of films. The course is writing intensive and includes a response journal, movie analyses, and reviews. Students will become better observers and writers as they gain cineliteracy. *COREQ: ENG112.*

~~**ENG305-H**~~~~**Studies in Creative Writing: Fiction** (SPRING Semester – 0.5 unit)~~

~~This course will serve as an introduction to the craft of fiction writing in a traditional workshop setting. The aim is to help students hone their fiction reading, writing, and analytical skills by examining the history of the short story, giving special emphasis to contemporary short story writers from around the globe. Through a careful reading of the chosen texts, students will gain a clearer sense of what makes successful stories and use that knowledge to then write their own. Students will be expected to engage in the writing and revision process as well as peer workshops. At semester's end, participants will have an opportunity to share their work in a public reading. *PREREQ: ENG112 or permission of instructor. <FULL>*~~

ENG306-H**African American Literature** (FALL Semester – 0.5 unit)

This course will give students a background on the African American experience via an engagement with black American culture, particularly literary culture. After surveying a few crucial figures in the 18th and 19th century tradition, including Olaudah Equiano, Harriet Jacobs, and Charles W. Chesnutt, we will spend most of our time in the 20th century. First, we will read W.E.B. Dubois's *The Souls of Black Folk*, paying careful attention to his concept of double consciousness and his sociological observations about the black community which remain influential today. From there, we will spend several weeks on the Harlem Renaissance, the American-grown branch of modernism, with studies of writers such as Alain Locke, Langston Hughes, Zora Neale Hurston, Jean Toomer, and Countee Cullen. Finally, the class will examine a few landmark works after the Harlem Renaissance that touch on African American identity and expatriation, including James Baldwin's essays in *The Fire Next Time* and Chimamanda Adichie's *Americanah*. *PREREQ: ENG112 or permission of instructor.*

ENG307-H**Studies in Creative Writing: Nonfiction** (FALL Semester – 0.5 unit)

This course will serve as an introduction to the craft of creative nonfiction writing in a traditional workshop setting. The aim is to help students hone their nonfiction reading, writing, and analytical skills by examining the history of the short essay and focusing more specifically on contemporary writers of the bestselling genre of writing being published today. Through a careful reading of the chosen texts, students will gain a clearer sense of what makes successful creative nonfiction and use that knowledge to write their own. Students will be expected to engage in the writing and revision process as well as peer workshops. At semester's end, participants will have an opportunity to share their work in a public reading. *PREREQ: ENG112 or permission of instructor.*

~~**ENG308-H**~~~~**Introduction to Philosophy** (FALL Semester—0.5 unit)—~~

~~“If you would be a real seeker after truth, it is necessary that at least once in your life you doubt, as far as possible, all things.” In this course, we take Rene Descartes’ challenge seriously and push at the limits of what we claim to “know.” In addition to reading foundational works in Western philosophy, students will examine enduring topics of philosophical inquiry in epistemology, metaphysics, and ethics. Literature, film, and legal cases will provide us with ample and entertaining opportunities to apply philosophical concepts. Some questions we may consider are: what distinguishes true knowledge from mere opinion? Is absolute knowledge possible? What constitutes reality? Does life have meaning? Is math real in the same way that a tree is real? Do we have free will, or is the course of our lives in some manner already determined? What, exactly, is time? Or space? Or matter, for that matter? We will also use philosophical insight to debate knotty ethical and political questions: Is eating meat moral? What about cloning, or gene editing? Our ultimate goal, then, is to break the trance of “common sense” and produce reasoned responses to enduring questions about the nature of human existence. *PREREQ: ENG112 or permission of instructor* <FULL>~~

~~**ENG309-H**~~~~**Introduction to Science Fiction: Literature** (FALL Semester, offered odd numbered years—0.5 unit)—~~

~~In this class, we will examine the history and influence of science fiction, a genre defined by Robert A. Heinlein as “realistic speculation about possible future events.” The class will explore the genre foundation works written by H.G. Wells, H. P. Lovecraft, and George Orwell, and then study novels and short stories that depict post-apocalyptic and cyberpunk themes, dystopias, time travel, alternate history, aliens, and others. In the midst of these readings, we will consider how science fiction often reflects the sociological, philosophical, and environmental concerns of the period in which it was written. Students will keep a journal of reading reactions, make class presentations, and write several short essays. *COREQ: ENG111.* <FULL>~~

~~**ENG310-H**~~~~**Gender Studies** (SPRING Semester—0.5 units)~~

~~This course examines the central role of language in the social construction of gender. We will consider how a wide range of American thinkers, utilizing diverse media, have attempted to critique and revise conventional notions of femininity and masculinity and, more recently, legitimize nonbinary identities. Throughout, we will ask how these efforts have intersected with other struggles for rights and power within our society. Students will read intensively in order to prepare for class discussions and writing projects; in addition, they will use digital humanities resources to complete an original archival research project. *PREREQ: ENG112 or permission of instructor.* <FULL>~~

ENG312-H**Shakespearean Drama** (FALL Semester – 0.5 unit)

“All the world’s a stage”: this, one of Shakespeare’s most well-known insights, gets to the heart of why Shakespeare matters to us today. His plays offer deep insight into the ways we *act*—in all senses of that word—day in and day out as we navigate life, trying to make sense of the world we inhabit. When we take our seats for a Shakespeare play, we thrill to watch witches, fairies, ghosts, and gods mix it up with kings, fools, warriors, lovers, and scoundrels in some of the most entertaining, funny, tragic, and moving plays ever written. This course helps us experience the joy and wisdom these plays have to offer by exploring several of Shakespeare’s most enduring plays in depth. We will also study the historical, cultural, and political context of the Elizabethan theater, watch traditional and contemporary film and stage productions (including, when possible, field trips to live productions), and produce our own dramatic interpretations of key scenes. Students will come away from the course with a deep understanding of several of Shakespeare’s richest and most well-loved plays and an appreciation for his enduring legacy. *COREQ: ENG111. A minimum of four students will be required for this course to be offered.*

ENG313-H**Eco-Fiction** (SPRING Semester – 0.5 unit)

In this course, we will explore how artists use language to influence our feelings towards, and understandings of, the natural world. We will track down answers to questions like: What is “the environment” and how is it shaped by processes of representation? How has environmental writing changed throughout history, from the Industrial Revolution to Chernobyl to now: the Anthropocene? We will pay particularly close attention to climate change fiction, a burgeoning genre that emphasizes the increasingly precarious relationship between human beings and their environments. After surveying some of the foundational texts in American environmental literature, including Thoreau’s *Walden*, Aldo Leopold’s *A Sand County Almanac*, and Rachel Carson’s *Silent Spring*, we will transition to more contemporary works: Octavia Butler’s *Parable of the Sower*, Samanta Schwebelin’s *Fever Dream*, and Jeff VanderMeer’s *Annihilation*. Students can also expect to view films like *Eating Animals*, *Racing Extinction*, and, at end the semester, the eco-comedy *Wall-E*. Students will write a close reading paper, an ethical reasoning paper, and a final research paper on an environmental humanities topic of their choosing. *PREREQ: ENG112 or permission of instructor.*

French

FRE101-H**French I** (A Full Year Course – 1.0 unit)

In this course, we cover the French alphabet, numbers, and phonetic system before covering the present tense of most verb types and touching briefly on the present perfect tense. In addition to learning basic grammar and vocabulary, we explore French culture through texts and videos about music, travel, fashion, food, sports, etc. as well as engaging in some discussion of Francophone societies outside France. We spend the majority of our time in class practicing our spoken French. By the end of the year, students should achieve a communicative proficiency in written and spoken French equivalent to the Novice Mid or Novice High level as described by the American Council on the Teaching of Foreign Languages (ACTFL).

FRE201-H**French II** (A Full Year Course – 1.0 unit)

In this course, we quickly review the grammar of the present indicative before covering the present perfect, imperfect, and pluperfect tenses (also of the indicative mood) and touching briefly on the subjunctive mood. In addition to learning basic grammar and vocabulary, we explore French culture through texts and videos about music, travel, fashion, food, sports, etc. as well as engaging in some discussion of Francophone societies outside France. We spend the majority of our time in class practicing our spoken French. By the end of the year, students should achieve a communicative proficiency in written and spoken French equivalent to the Intermediate Low or Intermediate Mid level as described by the American Council on the Teaching of Foreign Languages (ACTFL). *PREREQ: FRE101 or permission of instructor.*

FRE301-H**French III** (A Full Year Course – 1.0 unit)

In this course, we quickly review the grammar of the present indicative, present perfect, and imperfect tenses before studying the pluperfect and future tenses (also of the indicative mood) as well as the present subjunctive and conditional moods. In addition to learning grammar and mid-level vocabulary, we explore Francophone cultures in Europe, North America, Africa, and the Pacific through texts and videos about music, travel, fashion, food, sports, etc. We spend the majority of our time in class practicing our spoken French. By the end of the year, students should achieve a communicative proficiency in written and spoken French equivalent to the Intermediate High or Advanced Low level as described by the American Council on the Teaching of Foreign Languages (ACTFL). *PREREQ: FRE201 or permission of instructor.*

FRE401-H**French IV** (A Full Year Course – 1.0 unit)

In this course, we quickly review the grammar of the major tenses and moods of the French language before spending the rest of the class adding to vocabulary and improving paragraph-length communication skills. In addition to learning grammar and mid-level and advanced vocabulary, we explore Francophone cultures in Europe, North America, Africa, and the Pacific through texts and videos about music, travel, fashion, food, sports, etc. We spend the majority of our time in class practicing our spoken French. All texts and language use are in French, except when comparisons between English and French are studied; and analysis, synthesis, and evaluation are stressed. Advanced modes of communication (interpersonal, interpretive and presentational) are used in accordance with state and national standards. Clear effective communication within the language is expected from the students. By the end of the year, students should achieve a communicative proficiency in written and spoken French equivalent to the Advanced Low or Advanced Mid level as described by the American Council on the Teaching of Foreign Languages (ACTFL). *PREREQ: FRE301 or permission of instructor.*

FRE601-AP**French VI (AP French)** (A Full Year Course – 1.0 unit each)

(AP French) An advanced, intensive course will be agreed upon by the students and the instructor. Weekly and/or twice weekly meetings will occur but work assigned and time in class will equal that of three meetings a week. Intense practice for the French Language Advanced Placement test (French **language** only) will be the major emphasis for second semester. Requirements from College Board for AP Certification have been met by the instructor and the class will follow those guidelines. All texts and language use are in French; and analysis, synthesis, and evaluation are stressed. Advanced modes of communication (interpersonal, interpretive and presentational) are used in accordance with state and national standards. Clear effective advanced-level communication within the language is expected from the students. Students are encouraged to use French outside of the classroom and native speakers are occasionally invited to class or called by telephone or interactive internet to communicate with students. Outside interactive Internet activities in the target language are encouraged. Assessments of students use the best of traditional methods and the best of recent standards-based assessment approaches in an effort to produce an advanced-level speaker able to use the language in real-world performance tasks. Students in the class will take the French AP Language test given by the College Board. *PREREQ: FRE401 or permission of instructor.*

General Science

Note: These courses do not count towards the GSSM's Lab Science Graduation Requirements.

SCI301-AP
(AP Env Sci)**Environmental Science (AP Env Sci)** (FALL Semester – 0.5 unit)

This course will provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, and to examine alternative solutions for resolving or preventing them. Topics from geology, biology, environmental studies, chemistry, and geography will be integrated into this course. Extra readings may be assigned if deficiencies in background knowledge emerge. Students may choose to take the AP environmental science exam. *Includes a 2-3 hour weekly lab. PREREQ: One unit each of any high school biology and chemistry courses. Class limited to 13 students. Seniors given first priority. Does not count towards GSSM's lab science graduation requirement.*

PHY100-H**Physics in the Arts** (FALL Semester – 0.5 unit)

This course studies physical phenomena found in music and the visual arts; also known as the scientific fields of acoustics and optics. Topics covered in this course include light waves, color mixing, lenses, mirrors, photography, sound waves, sound perception, musical scales, and musical instruments. These topics will be further studied through observation and experimentation during the weekly lab. *Includes a 2-hour weekly lab. COREQ: Initial math placement in MAT111-H or above, or permission of instructor. Does not count towards GSSM's lab science graduation requirement.*

~~**PHY210-H** — **Astronomy** (SPRING Semester — 0.5 unit)~~

~~This survey course of historical and modern astronomy includes such topics as planetary astronomy, spectroscopy, and stellar structure and evolution. Students will learn to use the school's telescopes, including an eight inch Schmidt-Cassegrain telescope. Includes a 2-hour weekly lab. Class limited to 14 students. Seniors given first priority. Does not count towards GSSM's lab science graduation requirement. <FULL>~~

German

Note: These courses are taught online via live instruction through the Governor's School for Arts and Humanities.

GER200-H**Honors German II** (A Full Year course – 1.0 unit)

This course is based on linking language skills of listening, reading, writing, and speaking. It also (offers insights into the) addresses German culture. Since the class is a multi-level class, ranking from German II learners with basic skills to upper level students, various themes and grammatical structures will be (covered) studied in order to ensure that every student can improve his individual level of proficiency. *PREREQ: German I*

GER300-H

Honors German III (A Full Year course – 1.0 unit)

This course is based on linking language skills of listening, reading, writing, and speaking. It also (offers insights into the) addresses German culture. Since the class is a multi- level class, ranking from German III learners with basic skills to upper level students, various themes and grammatical structures will be (covered) studied in order to ensure that every student can improve his individual level of proficiency. *PREREQ: German II*

Government, Economics, And Finance

HIS201-H

US Government /Economics (EITHER Semester or during summer or interim – 0.5 unit)

Offered on-campus or online during the fall and spring semesters, depending on instructor availability.

Offered online during the interim term for students taking on-campus courses.

Offered online during the summer for rising seniors.

This one semester course is an overview of the structure of U.S. government and its basic functions. Various theories of government are incorporated into the course curriculum. The primary emphasis of the course is a study of public policy at all levels of government, integrating government and fundamental principles in economics. Specific areas of emphasis include taxation, fiscal policy, monetary policy, and business regulation. *This class will meet the state graduation requirement for both government and economics. This course is offered online during the summer and interim semesters.*

HIS202-AP
(AP US Gov)

AP US Government (AP US Gov) (FALL Semester – 0.5 unit)

This course provides students with an analytical perspective on governmental processes and politics in the United States. This course includes both the study of general concepts used to interpret U.S. government and politics and the analysis of specific “real world” examples. The course requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. government and politics. Students will be introduced to a variety of theoretical perspectives and explanations for given behaviors and outcomes relative to public policy.

Note: If a student takes this course and either ECON210 (Macroeconomics) or ECON211 (Microeconomics) the state graduation requirement for government and economics will be satisfied.

HIS203-AP

AP Comparative Government (SPRING Semester – 0.5 unit)

Introduces the field of comparative politics, stressing comparative concepts and approaches to the cross-national study of politics and government, with examination of political systems, ranging from democratic to non-democratic.

ECON210
(Dual Credit)
3 hours of
college credit

Principles of Economics: Macroeconomic Concepts (SPRING Semester- 1.0 unit)

This course taught online with synchronous instruction.

Macroeconomics gives students a thorough understanding of the principles of economics that apply to an economic system as a whole. Such a course places particular emphasis on the study of national income and price determination, and also develops familiarity with economic performance measures, economic growth, and international economics.

ECON211
(Dual Credit)
3 hours of
college credit

Principles of Economics: Microeconomic Concepts (FALL Semester- 1.0 unit)

This course taught online with synchronous instruction.

Microeconomics gives students a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the economic system. It places primary emphasis on the nature and functions of product markets and includes the study of factor markets and of the role of government in promoting greater efficiency and equity in the economy.

EFI301-H

Technology Ventures (FALL Semester-0.5 unit)

Introduces the fundamentals of entrepreneurship while focusing on technology startups. Reviews methods to identify potential technology-intensive commercial opportunities, gather resources, and measure and manage rapid growth and risk.

EFI303-H

~~**Quantitative Financial Analysis** (SPRING Semester; Offered **odd** numbered years--0.5 unit)~~

~~Examines business finance from the viewpoint of business managers by introducing the use of financial statements and concepts for measuring and planning for profitability and liquidity. The focus is on ratio analysis, time value of money, and risk. Cost of capital and business valuation are discussed. Basic Excel techniques for finance are taught.~~

EFI330-H

International Economics (SPRING Semester; Offered **even** numbered years--0.5 unit)

Introduces basic microeconomic models explaining the reasons for and the effects of trade among nations, trade restrictions, and regional trading arrangements. Analyzes current topics in international monetary relations. Discusses how countries use macroeconomic policy to influence performance in the global economy and how non-economic global events affect country performance.

History

HIS101-AP (AP US His)

History of the United States from 1607 to the Present (AP US His) (A Full Year Course – 1.0 unit)

This full-year advanced placement course traces the major events, trends, and themes of American life from the colonial era to the present. Outside reading assignments, including primary sources, enhance the understanding of America's past while showing its connection to our present time. The fall semester includes a study of the Constitution and the origins and functions of the federal government. *If this course has not already been taken, then it must be taken during the Junior year.*

HIS202-AP (AP US Gov)

AP US Government (AP US Gov) (FALL Semester – 0.5 unit)

This course provides students with an analytical perspective on governmental processes and politics in the United States. This course includes both the study of general concepts used to interpret U.S. government and politics and the analysis of specific "real world" examples. The course requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. government and politics. Students will be introduced to a variety of theoretical perspectives and explanations for given behaviors and outcomes relative to public policy.

Note: If a student takes this course and either ECON210 (Macroeconomics) or ECON211 (Microeconomics) the state graduation requirement for government and economics will be satisfied.

HIS203-AP

AP Comparative Government (SPRING Semester – 0.5 unit)

Introduces the field of comparative politics, stressing comparative concepts and approaches to the cross-national study of politics and government, with examination of political systems, ranging from democratic to non-democratic.

~~**HIS303-H**~~

~~**Native American Studies** (FALL Semester; Offered **odd** numbered years – 0.5 unit)~~

~~This one-semester elective course studies Native American history and culture through linking the native past with the present. Topics include native spirituality and traditions, environmental perspectives, federal policies, the reservation concept, native adaptation and survival, and current events. Course activities include field trips to federal recognized tribes, native guest speakers, common readings of native authors, and study of primary documents. A final project is required. <Full>~~

HIS304-H

Colonial America (SPRING Semester; Offered **even** numbered years – 0.5 unit)

This one-semester elective course studies colonial exploration and settlements of European powers and their influence on the social, cultural, economic, and political development of early America. The timeframe extends from European contact to 1763. Course requirements include reading and discussion of primary documents that help explore themes and problems related to the development of the colonial period, and how this development influenced the national period. Students will also engage in activities that develop an understanding and appreciation for lifestyles and customs in early America. A final project is required.

~~**HIS306-H**~~

~~**Ethics, Beauty and the Environment** (FALL Semester; Offered **even** numbered years – 0.5 unit)~~

~~This one-semester history course requires no prerequisites and is open to juniors and seniors. The course explores America's connection to the natural world through the study of writing, art, activism, laws, and impacts of exploitation. Readings include the classic works of Aldo Leopold, Edward Abbey, John Muir, John Burroughs, Annie Dillard and others. Our field trips include sea turtle nest inventory on Edisto Island and walks in Congaree National Park. Our focus on current issues point us to future paths of ethical management of natural resources and environmental stewardship.~~

~~**HIS309-H**~~

~~**The Civil War and Reconstruction** (SPRING Semester; Offered **odd** numbered years – 0.5 unit)~~

~~This course studies social, economic, cultural, and political forces that led to the Civil War, and how these forces determined the course and outcome of the war. The course intensively studies the successes and failures of the Reconstruction, and how the legacy of the post-war period still affects America. Themes include military strategies and problems, the African-American experience, the role of women, and the home front. Course requirements include extensive reading and discussion of primary documents that help explore related themes and problems. A term paper is required.~~

Mathematics

MAT101-H

Essentials for Calculus (A Full Year Course – 1.0 Unit)

This course meets four days each week and will provide a directed approach to prepare students for calculus. Topics covered will include coordinate geometry, rules of exponents, factoring, logarithmic and exponential functions, and an introduction to trigonometry.

MAT102-H

Foundations 1 for Calculus (FALL Semester – 0.5 unit)

The first course of a two-semester sequence that meets four days each week and is designed to prepare students for the study of calculus. Topics include linear functions, polynomial functions, rational functions, exponential functions, logarithmic functions, function composition and transformations.

MAT103-H	Foundations 2 for Calculus (SPRING Semester – 0.5 unit) This is the second course of a two-semester sequence that meets four days each week. Topics include trigonometry, parametric and polar equations, and partial fractions. <i>PREREQ: MAT102</i>
MAT111-H	Concepts 1 for Calculus (FALL Semester – 0.5 unit) The first course of a two-semester sequence that meets three days each week and is designed to prepare students for the study of calculus. Topics include linear functions, polynomial functions, rational functions, exponential functions, logarithmic functions, function composition and transformations.
MAT112-H	Concepts 2 for Calculus (SPRING Semester – 0.5 unit) This is the second course of a two-semester sequence that meets three periods each week. Topics include trigonometry, parametric and polar equations, and partial fractions. <i>PREREQ: MAT111</i>
MAT200-H	Calculus with Applications (A Full Year Course – 1.0 unit) This is an introductory course in differential and integral calculus, but is not designed to prepare students for either of the AP Calculus exams. The course examines limits including l'Hôpital's Rule, as well as derivatives and their applications during the Fall semester. In the Spring semester, Riemann sums, definite and indefinite integrals, the Fundamental Theorem of Calculus, integration by substitution, and applications such as area and volume are covered. <i>PREREQ: MAT 101, MAT103 or MAT112</i>
MAT201-AP (AP Calc AB)	Calculus I-Semester 1 (AP Calc AB) (FALL Semester – 0.5 unit) Students will be introduced limits and continuity, derivatives, max-min theory, optimization and related rates, the Mean Value Theorem and Rolle's Theorem, l'Hôpital's Rule and antiderivatives. The MAT201/202 sequence prepares students for the AP Calculus AB exam. <i>PREREQ: MAT 101, MAT103, MAT112 or permission of instructor</i>
MAT202-AP (AP Calc AB)	Calculus I-Semester 2 (AP Calc AB) (SPRING Semester – 0.5 unit) Students will be introduced to Riemann sums, the definite integral, the Fundamental Theorem of Calculus, techniques of integration, numerical methods, direction fields, and separable differential equations. Integral calculus will also focus on the applications of area and volume. The MAT201/202 sequence prepares students for the AP Calculus AB exam. <i>PREREQ: MAT201</i>
MAT203-AP (AP Calc BC)	Calculus I and II (AP Calc BC) (A Full Year Course – 1.0 unit) The content of this course parallels the three semester sequence of MAT201-AP, MAT202-AP, and MAT303-AP, but at a considerably faster pace, meeting four days each week. Students should have a strong interest in mathematics and have demonstrated proficiency in previous math classes. This course prepares students for the AP Calculus BC exam. <i>PREREQ: MAT 101, MAT103, MAT112 or permission of instructor</i>
MAT301-H (above AP)	Linear Algebra (FALL Semester; Offered even numbered years – 0.5 unit) This course includes solving systems by matrix methods, matrix operations, matrix algebra, determinants, Cramer's rule, vector algebra, the dot and cross products used in projections and geometric applications, lines and planes in 3-space, vector spaces, linear independence, linear transformations, eigenvalues, and eigenvectors. <i>PREREQ: Completion of MAT202 or MAT203 or permission of instructor</i>
MAT302-H (above AP)	Abstract Algebra (SPRING Semester; Offered odd numbered years – 0.5 unit) This is an introductory course to abstract algebra and will cover sets, groups, equivalence relations, rings and fields with an emphasis on group theory. Students will learn the basics of writing a mathematical proof. <i>PREREQ: Completion of MAT202 or MAT203 or permission of instructor</i>
MAT303-AP (AP Calc BC)	Calculus II (AP Calc BC) (FALL Semester – 0.5 unit) This course covers areas of regions bounded by polar graphs, the calculus of parametric equations, integration by parts, partial fractions, trigonometric substitution, improper integrals, and arc length. Other topics include series and sequences, tests of convergence, absolute and conditional convergence, power series, and the Taylor and Maclaurin series. This course prepares students for the AP Calculus BC exam. <i>PREREQ: MAT202</i>
MAT304-AP (AP Stat)	Probability and Statistics (AP Statistics) (FALL Semester – 0.5 unit) This is an introductory course in probability and statistics. Topics include exploratory data analysis, regression & correlation, experimental design, probability, and random variables. This is the first course of a two-semester sequence that prepares students for the AP Statistics exam. <i>COREQ: Must have completed Calculus or be taking Calculus to enroll.</i>
MAT305-AP (AP Stat)	Applied Statistics (AP Statistics) (SPRING Semester – 0.5 unit) This course focuses on inferential statistics. Topics include sampling distributions, confidence intervals and hypothesis testing for both means and proportions involving one-sample and two-sample studies. Other topics include inference on regression and chi-square tests. The MAT304/305 sequence prepares students for the AP Statistics exam. <i>PREREQ: MAT304</i>

- MAT306-H (above AP)** **Multivariable Calculus** (SPRING Semester; Offered **even** numbered years— 0.5 unit)
This course examines the calculus of real functions of two or more variables. Differential calculus topics include continuity, directional derivatives, tangent planes, and max-min theory. Integral calculus topics include double integrals in the Cartesian and polar coordinate systems, surface area, and triple integrals in the Cartesian, cylindrical, and spherical coordinate systems. Topics in curvilinear motion including velocity, acceleration, and curvature are also covered. *PREREQ: MAT203 or MAT303 or permission of instructor.*
- MAT307-H (above AP)** **Discrete Structures** (FALL Semester; Offered **odd** numbered years – 0.5 unit)
This course is a survey of logic and set theory. Topics include propositional and predicate logic, the algebra of sets including mappings, relations and functions, counting principles and probability, and the introduction of the concept of the mathematical proof including induction. *PREREQ: Completion of MAT202 or MAT203 or permission of instructor.*
- MAT310-H (above AP)** **Number Theory** (SPRING Semester; Offered **even** numbered years – 0.5 unit)
This course covers fundamental principles of number theory, including primes and composites, divisors and multiples, divisibility, and number bases. Other topics include calculations with modular arithmetic, linear and quadratic congruences, arithmetic involving Legendre symbols, Fermat's little theorem and its generalization by Euler, Pythagorean triples, primitive roots and indices, systems of linear congruences, and the Chinese Remainder Theorem. Applications that will be discussed include public key cryptography and the RSA algorithm. *PREREQ: Completion of MAT202 or MAT203 or permission of instructor.*
- MAT312-H (above AP)** **Ordinary Differential Equations** (SPRING Semester; Offered **odd** numbered years—0.5 unit)
~~This course includes the study of first order differential equations beginning with separable equations and their applications, exact equations with integrating factors, and homogeneous equations. Also investigated are second order linear equations, including homogeneous equations with constant coefficients and non-homogeneous equations solved by using the method of undetermined coefficients, the method of variation of parameters, Laplace transforms, and power series solutions. *PREREQ: Completion of MAT202 or MAT203 or permission of instructor.*~~

Music

- MUS110-CP** **Chamber Orchestra 1** (EITHER Semester – 0.5 unit)
The Chamber Orchestra course will provide students with the opportunity to commit to performance growth and development on their instruments as ensemble performers. Operating in a focused, high energy learning environment, we will set monthly goals that will encourage positive and consistent motivation. The orchestra will perform for several campus and community events, festivals, and will perform 2-3 concerts per year. A variety of orchestral literature that will be studied and performed include music from the Baroque, Classical, Romantic and Contemporary periods, as well as modern, multi-cultural, and pops compositions. Orchestra members will have the opportunity to participate in the SC Region and All-State orchestras under the sponsorship of Mrs. Averill. Students may also continue private lessons from their private instructors via Zoom or Skype, or may pursue private lessons from local string studios. *PREREQ: Students must be able to read music well and must be able to proficiently play an orchestral string instrument, woodwind instrument, brass instrument, or percussion.*
- MUS111-CP** **Chamber Orchestra 2** (EITHER Semester – 0.5 unit)
Chamber Orchestra 2 will provide students with the opportunity to commit to performance growth and development on their instruments as ensemble performers. Advanced ensemble students will be able to demonstrate mastery in musicianship including, but not limited to: tone quality, intonation, rhythmic accuracy, and sight reading. In addition to playing orchestral literature, emphasis is placed on solo and chamber ensemble performance skills. Operating in a focused, high energy learning environment, we will set monthly goals that will encourage positive and consistent motivation. The orchestra will perform for several campus and community events, festivals, and will perform 2-3 concerts per year. A variety of orchestral literature that will be studied and performed include music from the Baroque, Classical, Romantic and Contemporary periods, as well as modern, multi-cultural, and pops compositions. Orchestra members will have the opportunity to participate in the SC Region and All-State orchestras under the sponsorship of Mrs. Averill. Students may also continue private lessons from their private instructors via Zoom or Skype, or may pursue private lessons from local string studios. *PREREQ: MUS110*
- MUS112-CP** **Chamber Orchestra 3** (EITHER Semester – 0.5 unit)
Chamber Orchestra 3 is a continuation of Chamber Orchestra 1 and 2, for students planning to continue their musical studies during the fall semester of their senior year. In addition to orchestral repertoire, students will have the opportunity to study advanced solo literature and pedagogies that improve advanced skills on their instruments. Grade 5 is the maximum difficulty level of orchestral repertoire for this course. Advanced ensemble students will be able to demonstrate mastery in musicianship including, but not limited to: tone quality, intonation, rhythmic accuracy, and sight reading. In addition to playing orchestral literature, emphasis is placed on solo and chamber ensemble performance skills. Operating in a focused, high energy learning environment, we will set monthly goals

that will encourage positive and consistent motivation. The orchestra will perform for several campus and community events, festivals, and will perform 2-3 concerts per year. A variety of orchestral literature that will be studied and performed include music from the Baroque, Classical, Romantic and Contemporary periods, as well as modern, multi-cultural, and pops compositions. Orchestra members will have the opportunity to participate in the SC Region and All-State orchestras under the sponsorship of Mrs. Averill. Students may also continue private lessons from their private instructors via Zoom or Skype, or may pursue private lessons from local string studios. *PREREQ: MUS111*

MUS113-CP

Chamber Orchestra 4 (EITHER Semester – 0.5 unit)

Chamber Orchestra 4 is a continuation of Chamber Orchestra 1, 2, and 3, for students planning to continue their musical studies during the spring semester of their senior year. In addition to orchestral repertoire, students will have the opportunity to study advanced solo literature and pedagogies that improve advanced skills on their instruments. Grade 6 is the maximum difficulty level of orchestral repertoire for this course. Advanced ensemble students will be able to demonstrate mastery in musicianship including, but not limited to: tone quality, intonation, rhythmic accuracy, and sight reading. In addition to playing orchestral literature, emphasis is placed on solo and chamber ensemble performance skills. Operating in a focused, high energy learning environment, we will set monthly goals that will encourage positive and consistent motivation. The orchestra will perform for several campus and community events, festivals, and will perform 2-3 concerts per year. A variety of orchestral literature that will be studied and performed include music from the Baroque, Classical, Romantic and Contemporary periods, as well as modern, multi-cultural, and pops compositions. Orchestra members will have the opportunity to participate in the SC Region and All-State orchestras under the sponsorship of Mrs. Averill. Students may also continue private lessons from their private instructors via Zoom or Skype, or may pursue private lessons from local string studios. *PREREQ: MUS112*

MUS120-CP

Concert Choir 1 (EITHER Semester – 0.5 unit)

The GSSM Concert Choir is open to all students who have previous experience in choir. The Concert Choir program offers opportunities for students to grow and develop their vocal skills while studying music of various cultures, languages, and eclectic literature of western music. Through using different warm-up methods, effective rehearsal strategies, and integrating music theory into sight-singing and ear training, students' musical literacy will greatly improve, resulting to a well-developed choir with a strong characteristic and mature sound. During their membership in the concert choir, students will have several performance opportunities for the school and community. Students will also be eligible to audition for Region and All-State Choir clinics during the spring semester. *PREREQ: The student needs to have a well-trained ear, a strong and confident voice, and proficient music reading skills to be successful in this ensemble. PREREQ: The student needs to have a well-trained ear, a strong and confident voice, and proficient music reading skills to be successful in this ensemble.*

MUS121-CP

Concert Choir 2 (EITHER Semester – 0.5 unit)

The Concert Choir 2 is open to all students who have previous experience in choir. The program offers opportunities for students to grow and develop their vocal skills while studying music of various cultures, languages, and eclectic literature of western music. Specific advanced fundamentals include, but not limited to: music notation, tone, dynamic variance, vocal production, body alignment, proper breathing, resonance, diction, blend, balance, ear training, musical interpretation and analytical preparation of a piece. During their membership in the concert choir, students will have several performance opportunities for the school and community. Students will also be eligible to audition for Region and All-State Choir clinics. *PREREQ: MUS120*

MUS122-CP

Concert Choir 3 (EITHER Semester – 0.5 unit)

The Concert Choir 3 is a continuation of Concert Choir 1 and 2, for students planning to continue their musical studies during the fall semester of their senior year. In addition to choral repertoire, students will have the opportunity to study advanced solo literature and pedagogies that improve advanced vocal skills. Grade 5 is the maximum difficulty level of choral repertoire for this course. The program offers opportunities for students to grow and develop their vocal skills while studying music of various cultures, languages, and eclectic literature of western music. Specific advanced fundamentals include, but not limited to: music notation, tone, dynamic variance, vocal production, body alignment, proper breathing, resonance, diction, blend, balance, ear training, musical interpretation and analytical preparation of a piece. During their membership in the concert choir, students will have several performance opportunities for the school and community. Students will also be eligible to audition for Region and All-State Choir clinics. *PREREQ: MUS121*

MUS123-CP

Concert Choir 4 (EITHER Semester – 0.5 unit)

The Concert Choir 4 is a continuation of Concert Choir 1, 2, and 3, for students planning to continue their musical studies during the spring semester of their senior year. In addition to choral repertoire, students will have the opportunity to study advanced solo literature and pedagogies that improve advanced vocal skills. Grade 6 is the maximum difficulty level of choral repertoire for this course. The program offers opportunities for students to grow and develop their vocal skills while studying music of various cultures, languages, and eclectic literature of western music. Specific advanced fundamentals include, but not limited to: music notation, tone, dynamic variance, vocal production, body alignment, proper breathing, resonance, diction, blend, balance, ear training, musical interpretation and analytical preparation of a piece. During their membership in the concert choir, students will have

several performance opportunities for the school and community. Students will also be eligible to audition for Region and All-State Choir clinics. *PREREQ: MUS122*

MUS301-AP

AP Music Theory (A Full Year Course – 1.0 unit)

This is a yearlong course that covers a broad range of basic to advanced musical concepts. Students will learn and enhance their skills in composition, and will learn how to analyze music using harmonic analysis along with other various concepts of analysis. Aural skills including rhythmic and harmonic dictation and sight-singing will also be covered. This course will give students the opportunity to broaden their skills and understanding of music, and deepen their appreciation for music as an expression and academic. After completing this course, students will also have the knowledge to sharpen their performance skills. *PREREQ: Must be able to read musical notation and must obtain permission from instructor.*

Physics

PHY151-AP (AP Physics I)

AP Physics I – A (AP Physics I first semester) (FALL Semester – 0.5 unit)

AP Physics 1 is an algebra-based, introductory college-level physics course that explores topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; electrostatics, introductory, simple circuits, and magnetism. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills. *Includes a 2-hour weekly lab. COREQ: Initial math placement in MAT111-H or above. See College Credit Hours Agreements at the end of the course descriptions.*

PHY152-AP (AP Physics 1)

AP Physics I – B (AP Physics I second semester) (SPRING Semester – 0.5 unit)

This course is a continuation of PHY151. To receive a credit for AP Physics 1, both PHY151 and PHY152 must be taken. *Includes a 2 hour weekly lab. PREREQ: PHY151-AP or PHY201-AP. See College Credit Hours Agreements at the end of the course descriptions.*

PHY201-AP (AP Physics C)

Calculus-Based Physics I (AP Physics C: Mechanics) (FALL Semester – 0.5 unit)

An extension of the generally accessible topics covered in PHY101-H. Topics will be discussed which require basic integral and differential calculus, such as particle kinematics and dynamics via Newton's laws of motion, including circular motion; work; kinetic energy; potential energy; energy conservation; power; linear momentum, its conservation, and impulse of particles and systems of particles; rotational Newtonian kinematics and dynamics of rigid bodies; angular momentum and its conservation; equilibrium of a rigid body; gravitation; and oscillation. *Includes a 2-3 hour weekly lab. COREQ: MAT201-AP or above. See College Credit Hours Agreements at the end of the course descriptions.*

PHY202-AP (AP Physics C)

Calculus-Based Physics II (AP Physics C: Electricity & Magnetism) (SPRING Semester – 0.5 unit)

Primary topics include electric charge; electric field; Gauss's Law for Electricity; potential; capacitance and dielectrics; conductors and insulators; current; resistance; emf; DC circuits; magnetic field; Gauss's Law for Magnetism; magnetic forces; sources of magnetic field; displacement current and Ampere's Law; electromagnetic induction and Faraday's Law; inductance; and electromagnetism as synthesized in Maxwell's equations. *Includes a 2-3 hour weekly lab. PREREQ: PHY201-AP. See College Credit Hours Agreements at the end of the course descriptions.*

PHY203-H

Fluids, Thermodynamics, and Optics (SPRING Semester -- 0.5 unit)

This course is a third semester of physics meant to complement the 151/152-AP or 201/202-AP classes. Students will study some of the classical physics topics not emphasized in those courses, namely, fluid mechanics, thermodynamics, and optics. Other topics may include high energy physics and cosmology as time permits. This course also includes a weekly laboratory experience. *PREREQ: PHY152-AP or PHY202-AP or completion of AP Physics.*

PHY301-H (above AP)

Modern Physics (FALL Semester – 0.5 unit)

This course is a continuation of PHY 151/152 or PHY 201/202. It focuses on the implications and applications of the topics covered in these courses beyond the Newtonian scale and introduces some of the extraordinary developments that irrevocably altered our understanding of physics. Following a historical outline, the topics include special and general relativity, atomic structure, quantum mechanics, and nuclear and particle physics. Although the course is geared to the mathematical ability of the class, some calculus should be expected. *Includes a 2-hour weekly lab. PREREQ: PHY151-AP or PHY202-AP or completion of AP Physics. See College Credit Hours Agreements at end of course descriptions.*

Psychology

~~PSY301-AP — AP Psychology (SPRING Semester — 0.5 unit) — This class can be taken as a social studies 0.5 credit or an elective. This class will be a basic introduction to the discipline of psychology in the 19th and 20th centuries. Major figures in the development of theories and the evolving of those theories through the years will be discussed.~~

~~Some case studies may also be used to more effectively focus on the different directions taken by modern psychology. – Taught in one 3-hour class session each week. <Full>~~

Research and Inquiry

RES401-H (above AP)

Mentored Summer Research & Inquiry (SUMMER/FALL – 0.5 unit)

Students will conduct a six-week, research & inquiry project under the guidance of a research mentor who is a professional in their field. Students will prepare their Research & Inquiry Statement during the project in addition to meeting any requirements of the project site (e.g., participating in a poster presentation). The mentor and project must be approved or assigned by GSSM. During the Fall semester, students work at a seminar level with a GSSM Research Advisor to finalize their Research & Inquiry Portfolio, which is focused on reflection & communication skills. Students are required to present at the GSSM Annual Research Colloquium. This presentation is required to receive a grade and credit. The course does not count toward the five required classes in the Fall Semester of the senior year.

RES410-H (above AP)

Advanced Research & Inquiry Communication (FALL - 0.5 unit)

Students will focus on communication of their Research & Inquiry Project from Mentored Summer Research & Inquiry (RES401) gaining experience in multiple modes of research communication to a variety of audiences. Students will produce a research & inquiry portfolio including a poster, oral presentation, plain-language summary, and a full-length technical research paper (or equivalent capstone work of project communication) suitable for submission to a regional, national, or international research competition and presentation of the project at Annual Research Colloquium and the SC Junior Academy of Science (or equivalent event as identified by their instructor). COREQ: RES401-H. Max Students: 10.

Spanish

SPA201-H

Spanish II (A Full Year Course – 1.0 unit)

SPAN II is a fast-paced introductory language course intended for students with little or no knowledge of Spanish. Informed by the ACTFL Proficiency Guidelines, this course uses a communicative methodology in an effort to promote the five 'Cs' of second language acquisition: Communication, Cultures, Connections, Comparisons and Communities. By the end of the academic year, students should have a greater understanding of cultural and historical topics from a variety of countries and regions in the Spanish-speaking world. Students should expect to discuss basic topics and cultural events in the present, past, and future; describe people and places; and talk about daily activities. In addition, through frequent attention to a variety of artistic expressions (music, painting, literature, folklore and performance), students will enhance their knowledge of the Spanish speaking world and increase their ability to formulate coherent and critical thoughts in the target language. *PREREQ: Spanish I or permission of instructor.*

SPA301-H

Spanish III (A Full Year Course – 1.0 unit)

SPAN III is an interactive, proficiency-oriented and student centered course that builds on the language proficiency and cultural knowledge/awareness acquired in Spanish II. Informed by the ACTFL Proficiency Guidelines, this course uses a communicative methodology in an effort to promote the five 'Cs' of second language acquisition: Communication, Cultures, Connections, Comparisons and Communities. Students will develop the tools necessary to execute some of the following communicative tasks in the target language: discuss events in the past, present and future; talk about hypothetical and conditional situations; and discuss topics of daily life (current events, the environment, urban life, travel, job market, communications, etc.). In addition, through frequent attention to a variety of artistic expressions (music, painting, literature, film, and performance), students will enhance their knowledge of the Spanish speaking world and increase their ability to formulate coherent and critical thoughts in the target language. *PREREQ: Spanish II or permission of instructor.*

SPA401-H

Spanish IV (A Full Year Course – 1.0 unit)

SPAN IV is an interactive, proficiency-oriented and student centered course, designed to build on the language proficiency and cultural knowledge/awareness acquired in Spanish III. In this course, students will work on the five skills necessary to develop and deliver effective communication in Spanish at a higher, more sophisticated level of performance. Students will focus on enhancing their ability to execute complex communicative tasks in the target language: discuss events in the past, present and future; talk about hypothetical and conditional situations; and analyze, discuss, and reflect on abstract topics. In addition, through frequent analysis of literary and artistic works intended for native audiences (such as plays, poetry, short stories, films, newspaper articles, podcasts, etc.) students will increase their knowledge of the Spanish speaking world and improve their ability to formulate coherent and critical thoughts about important global issues in the target language. After successful completion of this course, students should be well prepared for AP Spanish at GSSM. *PREREQ: Spanish III or Permission of instructor.*

**SPA601-AP
(AP Span Lang)**

Spanish VI (AP Span Lang) (A Full Year Course – 1.0 unit)

The goal of this course is to improve written and oral proficiency in the target language through the study, analysis and discussion of a diverse body of authentic contemporary texts selected from throughout the Spanish-speaking world. Primary sources include works of fiction (literature, film, popular sitcoms and music), and nonfiction (newspaper articles, essays and podcasts). The class is divided into six units dealing mostly with cultural identity and contemporary sociopolitical conflicts challenging communities across the globe. All topics discussed in class correlate directly with those evaluated on the AP Spanish Language and Culture Exam. Apart from a very brief, but intense, grammar review at the beginning of each semester, minimal class time will be dedicated to explicit grammar instruction. Students who are in this class are strongly encouraged to take the AP Spanish Language and Culture exam in May. This course is conducted exclusively in Spanish. *PREREQ: Spanish IV or permission of instructor*

**SPA703-H
(above AP)**

Topics in Hispanic Culture and Linguistics (SPRING Semester - 0.5 unit)

This course studies a topic on Hispanic Culture and/or Linguistics as a tool to improve listening, reading and speaking comprehension skills in Spanish and to promote discussion in the target language. The course could focus on two main areas: Culture and/or Linguistics. The Culture topic would focus on a variety of themes such as, globalization, marginalized communities, national identity, political conflicts in Central and South America, and the role of art in the creation of collective memory. The Linguistics topic may focus on themes central to the study of linguistics such as introductory Spanish linguistics, first and second language acquisition, dialectal variation in Spanish, and the development of Spanish from a historical perspective. This course uses the topic as a tool by which cover a varied selection of cultural objects, genres and/or regional diversity from the Spanish speaking world and therefore expose students to a multiplicity of linguistic registers, colloquial expressions, and accents. In addition to the improvement of language skills, the topics will promote cultural awareness by exposing students to unique and actual cultural objects, historical processes and issues and challenges facing global citizens of today. Class discussions and secondary readings focus on both formal elements of linguistics and culture, as well as their sociopolitical, historical, and cultural contexts. Classroom discussions and written assignments are in the target language (Spanish). *PREREQ: SPA601-AP Spanish or permission of instructor.*

Visual Arts

ART110-CP

Introduction to Ceramics (FALL/SPRING Semester – 0.5 unit)

This entry-level ceramic course is designed to provide students with the opportunity to explore creative expression through natural clay. Students will work with a professional ceramic artist in a studio setting to gain knowledge in traditional methods and contemporary ceramic techniques. Students will develop personal growth while working with earth, hands and heart to create sculptural and or utilitarian, kiln-fired, forms. Study will include connections to other disciplines: history, culture, science or other student-choice interests. In addition to the hands-on practice, students will enjoy a museum excursion to examine historic clay objects and artifacts. At the culmination of the ceramics course, students will display their finished works in a public art exhibition. *PREREQ: None. Max students: 12.*

ART111-CP

Advanced Ceramics (FALL/SPRING Semester – 0.5 unit)

Advanced Ceramics builds on the knowledge gained in Introduction to Ceramics. This course provides deeper exploration into three-dimensional ceramic sculpture and or wheel-thrown, glazed, utilitarian works with an emphasis on the development of personal style and point of view. Working alongside a professional ceramic artist, students will explore ways to connect with the world around them and their imaginations in expressive and meaningful ways. Innovation within technique and materials is supported and encouraged. Throughout the course students will develop an independent studio work practice, participate in critiques, write personal artist statements and create works for portfolio. In addition to the hands-on practice, students will enjoy a museum excursion to examine contemporary ceramic sculpture and historic clay artifacts. At the culmination of the ceramics course, students will display their finished works in a public art exhibition. *Prerequisite: ART 110. Max students: 12.*

ART 120-CP

2D Art Exploration (FALL/SPRING Semester – 0.5 unit)

This visual art course rich with student-choice options, will introduce students to a variety of traditional and contemporary methods and materials to gain knowledge and a deeper understanding of two-dimensional art as a means of personal expression. Working alongside a professional artist, students will explore ways to connect with the world around them and their imaginations as they experience: sketching, drawing, painting, mixed-media techniques and processes for creating original art. As part of the course, students will be required to do research on art history, write personal artist statements and participate in group critiques. In addition to the hands-on, creative practice, students will have the opportunity take a day trip to observe important works of art in museums and galleries. At the culmination of the course, students will connect with the community at large as they display their original works of art in a public art exhibition. *PREREQ: None. Max students: 12.*

ART 121-CP**Advanced 2D Art Exploration** (FALL/SPRING Semester – 0.5 unit)

Advanced 2D Art builds on the prior knowledge gained in 2D Art Exploration. This course provides deeper exploration into two-dimensional studio arts with an emphasis on the development of personal style and point of view. Working alongside a professional artist, students will explore ways to connect with the world around them and their imaginations in expressive and meaningful ways. Experimentation and innovation within technique and materials is supported and encouraged. Throughout the course students will develop an independent studio work practice, participate in critiques, write personal artist statements and create a portfolio of work. In addition to the hands-on, creative practice, students will have the opportunity take a day trip to observe important works of art in museums and galleries. At the culmination of the course, students will connect with the community at large as they display their original works of art in a public art exhibition. *Prerequisite: ART 120*

**ART301-AP
(AP Art His)****AP Art History (AP Art His)** (A Full Year Course – 1.0 unit)

Art is essential and intrinsic to all known cultures, from prehistory to the present, entwined everywhere with religious, political, and technological practices. At the same time, art reflects and shapes the specific practices of unique and diverse cultures, experiences, and individuals. It can express and reinforce cultural norms and behaviors, and it can challenge those norms, pushing us to think critically and act creatively.

In this course students develop a broad knowledge of the role art and artists have played in shaping and reflecting culture from the prehistorical era to the present moment, both globally and in a Euro-American context. They will learn to analyze and appreciate aesthetic qualities of both exemplary and representative works, placing those aesthetic qualities within the works' cultural context. The knowledge and skills gained from this course will foster confidence and curiosity, leading to increased empathy with a wider variety of cultures and histories.

Students in this course should expect to analyze and appreciate art through print and digital reproductions, and through trips to local and regional museums. This course fulfills GSSM's fine arts requirement.

Junior Seminar Series

Note: Students are automatically registered for these seminars.

LLS101**Life and Leisure Skills** (FALL and SPRING Semester, Graduation Requirement)

This seminar is designed to provide juniors with the necessary skills for making the transition to residential living and to a school curriculum that is frequently intense. The course formally addresses many of the academic as well as emotional and social demands that are placed on students in their new environment. It provides them with an arena where positive life skills are encouraged and fostered. This seminar meets once a week.

LLS102**Academic Transition** (FALL Semester, Graduation Requirement)

This seminar is designed to assist students with the academic transition to GSSM, so that you can take full advantage of the resources and opportunities available at this wonderful school. We will work together so that you have the opportunity to develop the skills and mindset necessary to thrive in the fast-paced and challenging GSSM academic environment. While we recognize that you have been selected to attend GSSM because of your academic excellence thus far, experience has taught us that additional support for the entering class is a necessary and welcome addition to students' schedules. This seminar meets once a week.

LLS103**College Planning Seminar I** (SPRING Semester, Junior Year, Graduation Requirement)

The College Planning Seminar I course is designed to teach students how to navigate both the college search and college application processes. The course will emphasize the importance of self-awareness and reflection in the process. Students will also learn how to identify college/universities that match what they are looking to gain in a collegiate experience. The tools and resources shared in the course will allow students to have a thoughtful and guided college search experience. This seminar meets once a week.

LLS105**Everyday Survival Skills** (SPRING Semester for four weeks, Junior Year, Graduation Requirement)

Life is a contact event and can be stressful. Having an understanding of that and some basic skills can help you over-come stress and survive contact. While it is our hope that you will never be in danger or need to use these survival skills we want you to have them. This 4-week seminar will provide practical hands-on exercises and online learning. Students will be exposed to a) situational awareness training, b) emergency first aid procedures, c) self-defense strategies and methods, and d) physical and mental stress reduction and personal focus techniques.

LLS106**Public Speaking** (SPRING Semester for four weeks, Junior Year, Graduation Requirement)

This 4-week seminar will provide a brief introduction to the art and science of public speaking. Students should anticipate a fast-paced, hands-on experiential learning environment as we explore the classical roots of public speaking, the basic elements of a speech, various organizing strategies, managing speech anxiety, effective delivery, and persuasion. We will be crafting a variety of short speeches each day, so students will quickly and continually practice what is learned.

LLS107

Preparing for Research Experiences (SPRING Semester for four weeks, Junior Year, Graduation Requirement)

This 4-week seminar series will provide an introduction to skills and concepts central to student research experiences. Students will work with peer-reviewed research papers to learn about scientific process, research narratives, how to read and understand research articles, develop annotated bibliographies, data analysis, basic statistics, and communication.

Senior Seminar Series

Note: Students are automatically registered for this seminar.

LLS104

College Planning Seminar II (FALL Semester, Senior Year, Graduation Requirement)

The College Planning Seminar II course continues the college application process for the fall of senior year. Students will confirm their college application list, complete college applications and essays, and submit requests to have official documents sent to colleges. Completion of financial aid forms (FAFSA and CSS Profile) will also be covered. This fall seminar focuses on time management skills, organizational skills, submission of college applications and communication with colleges as an applicant. The seminar meets once a week; students may be excused from attending once their applications have been submitted to colleges.

Section 3: Frequently Asked Questions

1. How many courses do I need each semester?

All students must have a minimum of 5 courses per semester. Many students take 6 courses per semester, and some take 7 or more. Juniors also take two one-hour seminar courses per semester, and seniors also take a one-hour seminar course during the fall semester. Students should work with their academic advisors to come up with the schedule that best meets their academic goals and abilities.

2. What if I want to take more than 5 courses in a semester?

Students may take a sixth course during a semester with approval of their advisor. Students may take a seventh course with the approval of their advisor in consultation with the Director of Academic Programs. In general, only consider requesting more than 5 courses if you are earning 90s or above in all current courses. When considering taking more courses, it is important to consider the demands of an additional course. It is very important for college admissions that you perform well in the courses you take. Taking more courses and not performing well in all courses is not advisable.

3. What science courses do I need?

It is important that you have a solid foundation in the core sciences: biology, chemistry and physics. Therefore, you must take a full credit (one year) in each of these three sciences. You need at least three lab sciences during high school at the honors level or above to graduate with a SC diploma and a GSSM diploma. Discuss with your advisor possibly taking GSSM's foundational lab sciences in order to ensure a strong background in all three sciences.

4. Which chemistry course should I take, Principles of Chemistry or AP Chemistry?

You can take either Principles of Chemistry or AP Chemistry as a junior or senior. If you have taken a chemistry course and have a strong background in the subject, you should take AP Chemistry. If you have taken a chemistry course, but do not have a strong background, you will be more successful in Principles of Chemistry. If you have never taken a high school chemistry course, you must take Principles of Chemistry. Students who take Principles of Chemistry as a junior will be well prepared to take AP Chemistry as a senior if they choose to do so.

5. Which physics course should I take, AP Physics I or AP Physics C?

You can take either AP Physics I or AP Physics C, based on your math placement. Taking AP Physics I as a junior does not preclude you from also taking AP Physics C as a senior. Because physics has a heavy math component, to register for AP Physics I you must be in MAT111-H or above, and to register for AP Physics C, you must be in MAT201-AP or above. You can enroll in either physics course without a prior course in physics as long as you meet the math requirement.

6. Which math course should I take?

As is the case for all GSSM courses, the courses in mathematics are designed to teach mastery of the subject area. Based on our professional opinion and experience, we work to place students in the best course for their individual backgrounds. We want each student to take the course that will challenge them at an appropriate level.

Recognizing that the mathematical ability of students varies greatly despite possibly having taken similar courses, we take proper placement very seriously. Once a student is at GSSM, we may see that they could and should be placed in a different level (higher or lower) class. Because we encourage students to challenge themselves and strive to reach their full potential in all academic areas, we will switch a student to a different mathematics class if we see that our initial placement was incorrect. The math department will reassess placements near the beginning of the semester, after the first major assessment, and once again at mid-term.

For Incoming Juniors

During the registration process, all rising juniors are asked to select the math courses, along with their other courses, that they want to take. During May, all rising juniors are given placement assessments, which are used in addition to their placement request, transcripts, PSAT/SAT math scores and previous grades in mathematics, to place them in the proper math courses.

For Rising Seniors

Math placement is determined by you and your current math instructor. After spring midterm grades are reported, you will meet with your math instructor to decide which math course is appropriate for you. Final semester grades will determine your ultimate placement. Placement is determined by the general guidelines below:

All GSSM students must complete 1.0 credit of calculus at the honors level or higher during high school. Students who took MATH 101, Math 102/103 or Math 111/112 as juniors will be placed into a calculus class as follows:

- For students currently enrolled in Math 101, a grade of 90 is needed for MAT 201 (Calculus AB) and permission of the instructor is needed for MAT 203 (Calculus BC)
- For students currently enrolled in MAT 102/103, a grade of 86 is needed for MAT 201 (Calculus AB) and 93 for MAT 203 (Calculus BC).
- For students currently enrolled in MAT 111/112, a grade of 80 is needed for MAT 201 (Calculus AB) and 90 for MAT 203 (Calculus BC).

7. Which computer science course should I take?

GSSM considers computer science to be an indispensable tool for almost every discipline. If you have not taken a computer science course, you may select one of these options to fulfill the SC graduation requirement:

- CSC101 Introduction to Computer Science (AP CS A) which is a one-semester course offered in the fall, followed by CSC102 Advanced Java Programming (AP CS A) which is offered in the spring to complete your AP exam preparation. Each semester earns 0.5 unit.
- CSC110 Computer Science 1: Python for Scientists which is a general-purpose object-oriented language that is used by many disciplines. This one-semester course earns 1.0 unit. This course is dual-enrolled.
- The sequence ENGIN102 Engineering Disciplines and Skills followed by ENGIN141 Computer Programming with MATLAB. MATLAB is a programming language tailored for engineering and science. Refer to the description in the engineering section of the course catalog. NOTE: Only ENGIN141 is dual-enrolled and counts as 1.0 unit of credit of computer science.
- CSC101 Introduction to Computer Science (AP CS A) (0.5 unit) followed by CSC160 Introduction to Computer Networking (0.5 unit) for a total of 1.0 unit of credit.

If you have taken a computer science course that fulfills the SC graduation requirements, you may enroll in a computer science elective course(s). Work with your academic advisor and the computer science department faculty to make sure you have completed the prerequisites for these courses.

8. Which engineering course should I take?

The engineering program at GSSM offers introductory and advanced project-based courses. ENGIN205 Applications in Engineering Design is a good place to start if you have limited experience in engineering. For more advanced studies, consider ENGIN207 Engineering: Electronics, or ENGIN115 Engineering: Design Modeling course. We offer three dual-enrolled courses, ENGIN102 Engineering Disciplines and Skills, ENGIN141 Computer Programming with MATLAB, and ENGIN115 Engineering Design Modeling course.

ENGIN102 and ENGIN141 are the equivalent to the general engineering sequence at Clemson University, in which students learn how to apply Excel (in ENGIN102) and MATLAB (in ENGIN141) to analyze and solve engineering and science problems. ENGIN115, in which students learn how to 3D model in SolidWorks, is also required by some engineering departments at Clemson. Students choosing to attend Clemson may receive university credit for these courses.

9. What is an independent study?

Independent study at GSSM is designed to provide additional opportunities for highly motivated students to pursue areas of their special interest. Please see the Other Academic Information section "Independent Studies" for more information about how to register for an independent study course.

10. If there is more than one teacher for a course, can I select the teacher I want?

Students cannot select instructors. It is important to learn how to learn in all situations and from different teaching styles. Learning from our diverse and talented instructors will prepare you for learning in the college setting and beyond.

11. Why does my schedule change sometimes during the year, especially between semesters?

In order to provide the best educational experience, we try to balance classes as best possible (i.e. a similar number of students in each section of a course). Since a number of our courses are taught in one semester and since we allow students to add and drop courses at the beginning of semesters, we sometimes need to rebalance classes for instructors at the beginning of each semester and sometimes after a few weeks into a semester.

12. How do I complete the research and inquiry graduation requirement?

Completion of a GSSM-approved, mentored research and inquiry program is required for all students. Students complete the research and inquiry graduation requirement by taking and passing RES401 or a research and inquiry designated course. Most students complete this requirement through RES401 involving six weeks of mentored summer research in an external research group with which they are matched by GSSM, completion of a portfolio, and presentation at the Annual Research Colloquium.

13. How does RES401 count in regards to the classes I take?

Mentored Summer Research & inquiry (RES401) does not count as one of your required 5 courses in the fall of your senior year, but will show up on your fall schedule on Thursdays at 4PM because RES401 students will work at a seminar level with a GSSM research advisor to finish their research and inquiry portfolio before the Annual Research Colloquium. The final grade and credit for research is not awarded until the end of the fall semester.

14. What do I need to do if I have not met the physical education State graduation requirement prior to coming to GSSM?

The combination of your Life and Leisure seminar and working with the athletic department on a physical activity plan will meet the State PE requirement.

15. What do I do if I need a fine arts credit?

All GSSM visual arts, art history, music, and drama courses fulfill the fine arts requirement. If these courses do not fit into your academic program during your two years at GSSM, you can take fine-arts courses during the summer.

16. If a course is listed in the course catalog, will it definitely be offered?

Ideally, yes. However, depending on student demand for the course, and what other courses faculty are teaching, some courses may not be offered each year. Because some courses have limits to enrollment, not all students who register for a course are guaranteed to be able to take it. Therefore, when signing up for courses, you should think about other elective courses you might want to take if your initial choices cannot be met.

17. How does the one-semester Gov/Econ (HIS 201) class at GSSM fit with State social studies requirements?

If you take the one-semester Gov/Econ course at GSSM, it satisfies both the government and economics State requirements, reducing the total State social-studies requirement from 3 credits (US History – 1.0 credit, Government – 0.5 credit, Economics – 0.5 credit and one other Social Studies credit – 1.0 credit) to 2.5 credits total (US History – 1.0 credit, GSSM Gov/Econ – 0.5 credit and one other Social Studies credit – 1.0 credit). GSSM's one-semester Gov/Econ course may be offered on-campus or online during the fall and spring semesters, depending on instructor availability. It is offered online during the interim term for students taking on-campus courses. It is also offered online during the summer.

18. Do students and parents have access to grades through PowerSchool like they did in their previous high school?

GSSM is a high school that operates in many academic ways like a college. Our courses are on a college schedule; mastery of the subject is the goal; and student ownership of their academic success is promoted. We ask for students to keep track of their grades throughout their courses. At any point during a course, students or parents can ask teachers about their grades. Ideally, students would know their grades based on the grades they have received and the grade breakdown provided in the course syllabus. Since we are still a high school, mid-semester report cards and end of semester report cards are given to the students and sent home.

19. For which GSSM courses can I get college credit?

GSSM has a dual-enrollment agreement with Coker University. Students receive Coker University credit for certain courses. GSSM also has memorandums of understanding with Clemson University and the University of South Carolina to grant college credit for university approved GSSM courses that are closely aligned with the universities' courses. Please see the Other Academic Information section "College Credit Hours for GSSM Courses" for more information about dual enrollment.

20. Can I get credit at GSSM for courses I take over the summer?

Students should work their academic advisors to decide whether to take summer courses. Incoming juniors typically do not take summer courses, except fine-arts courses. GSSM typically teaches some summer courses for rising seniors which fulfill graduation requirements. GSSM's one-semester government/economics class is usually taught online every summer. Rising seniors who have not met their government and economics requirement may take this course. Note that this course is also typically taught every semester and during interim (for students who are not traveling during interim). GSSM rising seniors may take up to 2 GSSM summer courses. Remember that most rising seniors will also be working on summer research during that summer. Incoming juniors may take courses to fulfill their fine-arts requirement. Students may take summer fine-arts courses at accredited schools (such as Virtual SC, local high schools, or technical colleges) that will provide GSSM a written transcript. Students who want to take other summer classes should talk to their advisor about it and must get permission from the Director of Academic Programs to do so.

Section 4: Academic Policies

- Sections:**
- Requirements and Eligibility**
 - A. Academic Requirements
 - B. Academic Eligibility to Continue at GSSM
 - C. Research & Inquiry Program
 - D. Community Engagement
 - E. January Interim
 - Academic Integrity and Grading**
 - F. Academic Integrity
 - G. Grade Appeal Policy
 - H. Grade Point Average Equivalencies
 - I. Class Rank
 - Academic Advising and Planning**
 - J. Academic Advisors
 - K. Academic Concentrations
 - L. College Credit Hours for GSSM Courses
 - M. Independent Studies
 - Course and Assembly Policies**
 - N. Attendance, Absences, and Makeup Policy
 - O. General Course Policies
 - P. Meetings and Assemblies

Academic Requirements and Eligibility

A. Academic Requirements

GSSM awards both State of South Carolina and GSSM diplomas. To remain enrolled at GSSM and receive a GSSM diploma, students must fulfill the following requirements:

- be enrolled in a minimum of five (5) courses during each of the fall and spring semesters
- earn a semester grade of C or better (70 or above) in each of the courses taken while at GSSM during the fall, interim, spring, and summer terms
- earn a minimum of five (5) GSSM credits during their junior year and another five (5) GSSM credits during their senior year
(Note: GSSM courses offered for credit during the summer or interim will count toward graduation requirements but will not count toward the minimum of five (5) GSSM credits that must be earned each year)
- complete satisfactorily the junior and senior seminars and the community engagement requirement

The table below outlines the minimum number of credits that must be completed for a GSSM diploma and a State of South Carolina diploma. Except for the Research and Inquiry experience and January Interim requirements, course credits may be earned before enrolling at, or while attending GSSM.

Credits are defined as the following: 0.5 credits for a semester course, and 1.0 credits for a year-long or two-semester course. If one high school unit is awarded for a semester-long dual enrolled course, GSSM reserves the right to review the curriculum to deem if the material covered meets the GSSM 1.0 credit (i.e. year-long or two-semester course) requirement listed in the table below.

Graduation Requirement	Credits
Science with a Lab (<i>must include 1.0 credit biology, chemistry and physics at the honors level or higher</i>)	3.0
Mathematics (<i>must include 1.0 credit of calculus at the honors level or higher</i>)	4.0 – 5.0
Computer Science	1.0
English/Language Arts (<i>must include the two-course sequence in composition, taken during junior year</i>)	4.0
Foreign Language (<i>in the same language</i>)	2.0
US History	1.0
US Government	0.5
Economics	0.5
Other Social Studies	1.0
Physical Education/ROTC	1.0
Research and Inquiry Experience	0.5
Fine Arts	1.0
GSSM January Interim Courses	1.0
Electives	2.5 - 3.5
Total	24

Additional graduation requirements and notes on the next page...

Additional Graduation Requirements and Notes	
<p>Research and Inquiry Program</p> <p>Completion of a GSSM-approved, mentored research and inquiry program is required for all students. Most students complete this requirement through RES401 involving six weeks of mentored summer research & completion of a portfolio. This requirement may also be completed through a course with the research and inquiry designation.</p>	<p>Required for all students to earn a grade of C or better (70 or above).</p> <p>Research and Inquiry Designated Courses:</p> <p style="text-align: center;">-RES401 -CHE401 -CHE403</p>
<p>Junior Seminar Series (one hour per week per seminar)</p> <p>Fall: <i>Life and Leisure</i> and <i>Academic Transition Seminars</i></p> <p>Spring: <i>College Planning Seminar I</i> and a three-part seminar series</p>	<p>Required for all juniors to attend and pass.</p>
<p>Senior Seminar Series (one hour per week per seminar)</p> <p>Fall: College Planning Seminar II</p> <p>Fall: RES401 Mentored Summer Research & Inquiry (until Annual Research Colloquium)</p>	<p>Required for all seniors to attend and pass.</p> <p>Required for students enrolled in RES401 to attend and earn a grade of C or better (70 or above).</p>
<p>Community Engagement</p>	<p>All students must participate based on outlined expectations</p>

Note: In order to receive a South Carolina high school diploma, the State requires that each student take several state assessments. While at GSSM students are required to take a college readiness exam (either the ACT or SAT) during the school days assigned by GSSM. Students must also take the work readiness assessment on the school day assigned. A student who takes AP US History while at GSSM is required to complete the End-of-Course Examination Program test for US History and the Constitution. A student who has not completed their biology requirement before attending GSSM must complete biology at GSSM and take the End-of-Course Examination Program test for Biology 1 and Applied Biology 2.

B. Academic Eligibility to Continue at GSSM

At the end of any semester, including interim or summer, a student who earns a semester grade of D or lower (69 or below) in any course will be required to return to his or her home high school to complete the remainder of his or her high school courses.

If there are extenuating circumstances, a student may appeal to the Academic Review Committee. If a student chooses to appeal, the appeal must be sent via email to the Senior Vice President of Residential via email within five (5) days after the semester grades are communicated to the student and his or her family by email, phone call, or regular mail. Parents or guardians are welcome to appeal along with their student. The Academic Review Committee will respond to the appeal and render a decision within five (5) days of receiving the appeal.

C. Research & Inquiry Program

One of the most distinctive learning experiences for GSSM students is student participation in a mentored research experience. Most students spend six weeks during the summer following their junior year conducting research under the mentorship of a professional researcher at a university, field station, government facility, or industry partner. All students, with the support of their GSSM faculty research advisor, complete a graded research portfolio to communicate their research experience and results. Students present their research presentations at both the GSSM Annual Research Colloquium and the South Carolina Junior Academy of Science.

D. Community Engagement

The Governor's School for Science & Mathematics views the Community Engagement service requirement as an appropriate and essential response on the part of GSSM students to the generosity of the state in providing an exceptional GSSM education. Service, whether within the context of the residence hall, faculty/staff assistance, or community, is emerging as one of the evidences of maturity sought in college admissions and has become an important requirement of many public and private secondary schools.

Satisfactory completion of this service is a GSSM graduation requirement. Students are required to complete 50 hours during their junior and senior years for a total of 100 hours during their time at GSSM. These hours can be earned through participation in a number of approved service activities. Students should be as faithful to community engagement as they are to their classes and other commitments. The Community Engagement program is administered through the Office of the Dean of Students. Questions regarding this requirement should be directed to this administrator or his or her designee.

E. January Interim

As part of the GSSM graduation requirements, students are required to enroll and successfully complete two interim courses, one during their junior and senior years. The courses vary in content and cost.

Please note the following related to Interim fees:

- If a student registers for an interim course that has a fee, the student and his or her family is responsible for payment in full to participate in the course.
- If a student does not pay the fee, he or she will be moved to an interim class that has availability and no fee.
- If a student withdraws or is dismissed from GSSM prior to or during interim, the student remains responsible for paying the course fee, and fees already paid will not be reimbursed. Refunds will only be given as the tour company's cancellation policy allows.
- Students who participate in interim courses based on travel follow payment plans set by the GSSM trip sponsor and/or the outside educational tour company organizing and coordinating the travel. Cancellation terms vary by company. Typically, the closer to the date of departure, the less money a student who cancels will be refunded. Refunds are only considered for limited reasons. Students may purchase (and are encouraged to) travel insurance to give them more, though still limited, cancellation options. GSSM faculty and staff will provide detailed and specific information about the finances associated with the Interim travel courses they are coordinating.
- Students who are no longer enrolled at GSSM may not participate in Interim courses or travel as a part of Interim courses.

Academic Integrity and Grading

F. Academic Integrity

Academic integrity is “a commitment, even in the face of adversity, to six fundamental values: honesty, trust, fairness, respect, responsibility, and courage” (International Center for Academic Integrity website). GSSM is a close-knit community built on these values. Because developing ethical leaders is a core component of a GSSM education, we expect students to uphold high ethical standards. A lack of academic integrity prevents students from learning and undermines our community, and therefore, is strictly prohibited. GSSM’s academic integrity policy covers all school-related academic work, both in and out of class.

Remember:

1. Each GSSM syllabus gives specific guidance on academic integrity in that course. A syllabus is a contract for every class between the students and the teacher.
2. Students are responsible for understanding how to act with academic integrity in all their academic work. If they have questions or are unsure if they are violating academic integrity, they need to ask their teacher for clarity.
3. Students may not communicate with others or consult resources during in-class quizzes, tests, or exams unless specifically allowed by the instructor. Prohibited resources include textbooks, electronic devices, notes, or personal formula sheets unless specifically permitted by the teacher.
4. Plagiarism is prohibited. Plagiarism consists of taking someone else’s work—words, images, and/or ideas—and passing them off as your own. Patch plagiarism, copying sections of a source while changing a few words, is also prohibited. When in doubt, cite your source. If you are confused about whether you are plagiarizing, ask your teacher.
5. Students may not use the work of GSSM alumni or other students.
6. Without permission, students may not obtain, consult, transmit, or share copies of quizzes, tests, projects, or prompts from current or previous years, physically or electronically. Students may not share or post class materials or assignments online.
7. Students may only collaborate on work when permitted by their teacher.
8. Teachers, working closely with their students, are the primary enforcers of academic integrity. When teachers discover that a student has violated academic integrity, they will discuss the incident with the student and then decide the consequences for the offense. In enforcing academic integrity, teachers will always work to be fair and consistent to all students and to help students learn from their mistakes. See the Discipline and Honor Code Violations section of this handbook for a full explanation of GSSM’s process for dealing with violations of academic integrity.

Meeting the High Expectations of Being a Govie (adapted from the MIT website)

GSSM will ask much of you. Occasionally, you may feel overwhelmed by the amount of work you need to accomplish. GSSM expects you to approach your work with honesty and integrity. Honesty is the foundation of all good academic work. Taking unethical shortcuts at GSSM, in the end, prevents you from learning what you need to prepare you for college. Whether you are working on a problem set, lab report, project, or paper, avoid engaging in plagiarism, unauthorized collaboration, cheating, or facilitating academic dishonesty. Follow this advice:

Plagiarism	
Do	Don't
Cite the words or ideas of others, if you use them. Cite your own work if you use it in another assignment.	Purchase papers or have someone write a paper for you.
Undertake research honestly and credit others for their work.	Copy words, data, or ideas without citing your source.

Unauthorized Collaboration	
Do	Don't
Trust the value of your own intellect	Collaborate with another student or use internet resources beyond the extent specifically approved by the instructor.

Cheating	
Do	Don't
Demonstrate your own achievement.	Copy answers from another student; don't ask another student to do your work for you. Don't fabricate results. Don't use electronic or other devices during exams.
Accept corrections from the instructor as part of the learning process.	Alter graded exams and submit them for re-grading.
Do original work for each class.	Submit projects or papers that have been done for a previous class.

Facilitating Academic Dishonesty	
Do	Don't
Showcase your own abilities.	Allow another student to copy your answers on assignments or exams. Don't take an exam or complete an assignment for another student. Don't share information about a test with other students until they have been returned to everyone.

Very often, when students fall prey to challenges around academic integrity, it is because they feel desperate. In an effort to avoid the pitfalls of academic dishonesty, note the following:

Don't be afraid to ask for help!

We all need it from time to time. Asking for help is a sign of a mature, successful student.

Talk to your teacher

- Make an appointment to **talk to your teacher** and use his or her office hours. GSSM teachers are here because they are committed to helping students succeed.
- **Ask your teacher for an extension.** Teachers would much rather give you an extension or accommodate you in some other way than see you violate academic integrity.

Get academic support

- Issues with academic integrity often stem from struggles with time management, organization, and study skills. The Center for Academic Success can help with all three.
- For students struggling with content knowledge, our tutoring labs staffed with peer tutors are here to help.

Ask for advice

- Talk to your academic advisor, who can provide insight and guidance and help you work with your teachers.
- Ask your RLC's, your RA's, your classmates, and friends for help. We're all here for each other.

Manage your time

- Use what you learn in your Academic Transition Seminar to help you plan a schedule, balance your priorities, and save time. Good time management will help you stay productive, on track, and reduce stress.

Give your mind a break

- Students often put pressure on themselves to succeed. Even if you're used to getting A's, that might not happen at GSSM; and that's okay. When you are feeling overwhelmed, it is important to take a break from your academic focus.
- Play a sport or do something physical. Our athletic staff offers many options.
- Be creative. GSSM offers many options for being artistic.
- Do something fun with friends. Our student development staff works with students to offer all kinds of activities you can be a part of to take a break from your work.
- Talk with our counseling staff about being stressed and to find out other healthy ways to deal with stress.

Consequences for Academic Integrity Violations

1. When teachers discover that a student has violated academic integrity, they will discuss the incident with the student and determine the consequences for the offense. In enforcing academic integrity, teachers will always work to be fair and consistent to all students and to help students learn from their mistakes.
2. The teacher may choose to resolve the incident without a formal incident report if he or she thinks that is the best way for the student to learn from it. For these minor incidents, teachers can give students verbal or written warnings, reduce their grades, and/or require them to revise, rework, or retake written work or an exam. Teachers will keep records of all incidents involving academic integrity even if they do not write a formal incident report for them.
3. If the teacher considers the incident more serious, he or she will **complete an academic integrity incident report** and send it to the Director of Academic Programs and the Dean of Students. At this point, the level of the charge is at the discretion of the instructor. The incident report will describe what happened, any supporting facts for the existence of a violation, and the penalty for the incident. The report will also outline how the teacher has worked with the student to understand the consequences of his or her actions and a plan for moving forward in the class.
4. Incident reports have three levels:
 1. **A level-one incident related to academic integrity** is "failing to follow instructions" as outlined on the class syllabus and/or communicated by the teacher. As referenced in the *Student Handbook*, GSSM makes some allowances for students as they acclimate to the school and, in this case, the rigor. Minor infractions should be minimal once students adjust. Penalties may include a written reprimand and/or warning.
 2. **A level-two incident** is "cheating, plagiarism, unauthorized collaboration, and other acts of academic dishonesty." Penalties may include a zero on the assignment. Faculty may also give the student an opportunity to re-submit the assignment.
 3. **A level-three incident** occurs when a student commits a second level-two academic integrity offense or when a violation is judged to be egregious. Level-three incidents are referred to the Judicial Council for review. Penalties may extend to expulsion from the program. See the Judicial Council section of this handbook for an explanation on Judicial Council procedures.
5. **Level-two or level-three incidents will also be sent to the student's parents** in keeping with the GSSM Discipline and Honor Code.
6. The Director of Academic Programs (DAP) will review the incident report and student's permanent record to determine if a greater penalty is merited based on previous offenses. Completed academic dishonesty incident reports and subsequent actions will be placed in a student's permanent record. The DAP will also meet with the student to help him or her understand the consequences of his or her actions and to work on moving forward productively.

7. Appeals:

1. Students may appeal to the Director of Academic Programs (DAP) if they believe that they did not violate academic integrity. The DAP will consult with the faculty member, the chair of the department, and the Senior Vice President for Residential before deciding the appeal.
2. Students may appeal grade penalties by using the GSSM grade appeal process found in this handbook.

Students may appeal Judicial Council decisions using the appeal process outlined in the Discipline and Honor Code Violations section of *The GSSM Student Handbook*.

G. Grade Appeal Policy

Purpose

Faculty members have the right and responsibility to assign grades based on their selected methods.

These methods must follow professional and disciplinary standards, must be clearly communicated to everyone in the class, and must be equally applied to all students. Faculty members should maintain careful records of all grades and policies and ensure that the syllabus is thorough and clear.

GSSM students have the right to appeal any grade. They should be aware, however, that clear evidence is needed to successfully appeal a grade. Belief that an assignment or text was too difficult is not grounds for an appeal. A student must have clear evidence that a faculty member erred or violated a specific policy in assigning the grade, or that he or she treated the student in a prejudicial or unfair manner.

Talk to Your Teach First

GSSM students are encouraged to work directly with their teachers to resolve disputes or misunderstandings. Many grade disputes can be resolved without students filing a formal appeal. If a student feels that he or she has received a grade in error or unfairly, the student must contact his or her teacher by email **within five (5) business days** of the grade being posted or distributed. The student should include the following in his or her email: evidence to support the appeal and the outcome the student seeks. The student and faculty member should meet to discuss the issue within **five (5) business days** of the student contacting the faculty member. If the matter is resolved, the faculty member will write an email to the student summarizing the terms of their agreement.

Formal Resolution

If an initial process between a student and faculty member does not resolve the dispute, a student may proceed to a formal appeal.

1. The student should first send a written appeal to the faculty member within **five (5) business days** of first meeting with the faculty member that states again his or her reasons and evidence for the appeal to include a statement of why the matter was not resolved during the initial process. The faculty member will respond in writing within **five (5) business days** to the student's written appeal.
2. If the student is not satisfied with this response, the student may appeal, within **five (5) business days**, to the department chair of the faculty member. If the faculty member is the department chair, the student may appeal to the Dean of Curriculum and Assessment.
3. The student must also present a written appeal to the department chair. The department chair will read the faculty member's written response. The department chair, the student, and the faculty member will then meet within **five (5) business days** after the student's written appeal has been received by the department chair. Students may have an additional faculty or staff member of their choosing at this meeting if they wish. The department chair will respond in writing to the student's written appeal within **five (5) business days** after the meeting. This response will go to both the student and the faculty member.
4. The department chair is the final arbiter of a grade appeal based on a question of academic content. If the dispute remains unresolved, however, a student may ask the Senior Vice President for Residential for an academic hearing as a final appeal within **five (5) business days** of receiving the department chair's response. This final appeal must state in writing what procedure the faculty member has violated and/or how the student has been treated unfairly.
5. Within **five (5) business days** of receiving this written request for an academic hearing, the Senior Vice President for Residential will create an academic response team composed of three faculty members. The Senior Vice President for Residential will appoint one faculty member from the teaching faculty at large and one faculty member each from lists of three faculty submitted by the student and the faculty member who is involved in the appeal. None of these faculty members shall be members of the academic department of the faculty member whose grade is being disputed.
6. The academic response team will review written statements and information supplied by the student, faculty member, and department chair or dean. Both the student and the faculty member have the right to appear in person before the academic response team. The team may investigate further as is appropriate and may seek assistance or information from others. All discussions and submitted written documents will be confidential.
7. After this review, the academic response team will render a decision regarding the appeal within **five (5) business days**. This decision is the final step in the grade appeal. The academic response team will inform the student, the faculty member, and the

department chair or dean of their decision in writing. Their decision will include the relevant findings of fact, conclusions, and reasons for the decision.

Note: Records of grade appeals will be kept by the department chair of the faculty member whose grade was appealed.

Other Academic Appeals

Students may also have disputes with faculty members that do not directly involve grades. Appeals related to academics but unrelated to grade appeals will follow the same general procedures as outlined above for grade appeals. The appeal must be made in writing to the instructor, with a copy to the department chair or the Dean of Curriculum and Assessment if the faculty member is a department chair. If the appeal is not resolved by working with the faculty member, the student may appeal to the department chair, and finally the Senior Vice President for Residential.

H. Grade Point Average Equivalencies

South Carolina Uniform Grading Scale Conversions				
Numerical Average	Letter Grade	College Prep Weighting	Honors Weighting	AP/IB/Dual Credit Weighting
100	A	5.000	5.500	6.000
99	A	4.900	5.400	5.900
98	A	4.800	5.300	5.800
97	A	4.700	5.200	5.700
96	A	4.600	5.100	5.600
95	A	4.500	5.000	5.500
94	A	4.400	4.900	5.400
93	A	4.300	4.800	5.300
92	A	4.200	4.700	5.200
91	A	4.100	4.600	5.100
90	A	4.000	4.500	5.000
89	B	3.900	4.400	4.900
88	B	3.800	4.300	4.800
87	B	3.700	4.200	4.700
86	B	3.600	4.100	4.600
85	B	3.500	4.000	4.500
84	B	3.400	3.900	4.400
83	B	3.300	3.800	4.300
82	B	3.200	3.700	4.200
81	B	3.100	3.600	4.100
80	B	3.000	3.500	4.000
79	C	2.900	3.400	3.900
78	C	2.800	3.300	3.800
77	C	2.700	3.200	3.700
76	C	2.600	3.100	3.600
75	C	2.500	3.000	3.500
74	C	2.400	2.900	3.400
73	C	2.300	2.800	3.300
72	C	2.200	2.700	3.200
71	C	2.100	2.600	3.100
70	C	2.000	2.500	3.000

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69	D	1.900	2.400	2.900
68	D	1.800	2.300	2.800
67	D	1.700	2.200	2.700
66	D	1.600	2.100	2.600
65	D	1.500	2.000	2.500
64	D	1.400	1.900	2.400
63	D	1.300	1.800	2.300
62	D	1.200	1.700	2.200
61	D	1.100	1.600	2.100
60	D	1.000	1.500	2.000
59	F	0.900	1.400	1.900
58	F	0.800	1.300	1.800
57	F	0.700	1.200	1.700
56	F	0.600	1.100	1.600
55	F	0.500	1.000	1.500
54	F	0.400	0.900	1.400
53	F	0.300	0.800	1.300
52	F	0.200	0.700	1.200
51	F	0.100	0.600	1.100

I. Class Rank

GSSM **does not rank our students.** Because the student body represents a cross section of the brightest and highest-ranked students from the state, ranking is neither fair nor appropriate.

Academic Advising and Planning

J. Academic Advisors

GSSM students start working with the teacher who serves as their academic advisor shortly after they are admitted. Students keep the same advisor for their two years at GSSM. Academic advisors guide students through the course selection process, mentor and support the wholistic development of the student, and serve as a resource referring students to other professionals when appropriate .

Academic advisors work with their advisees, teachers, the Director of Academic Programs, the Director of the Center for Academic Success, the Senior Vice President for Residential, and the Vice President for Student Development to help solve specific academic problems that arise during the school year. Advisors must also communicate with the teachers of their advisees, because they can usually provide more information and insight about them; in return, advisors can often help other teachers by sharing appropriate, non-confidential information about their advisees. Advisor may also contact coaches, residence life staff, and extracurricular advisors to get a broader insight into the advisee's attitude, behavior, and degree of success or failure and extent of cooperation.

K. Academic Concentrations

GSSM offers students the opportunity to concentrate study in one of several disciplines to let students explore academic areas of particular interest to them. Academic concentrations may bring a student's study of an area above the level of Advanced Placement to the attention of colleges and other interested parties. Students are cautioned that, in most cases, they will have to have completed some advanced coursework prior to entry to GSSM for a concentration to be feasible. Concentrations are recognized during the Academic Awards Ceremony at the end of spring semester. Because breadth in academic pursuits is just as desirable as depth, especially for students just beginning their academic careers, students should not pursue an academic concentration as a mark of academic excellence.

1. Biology

An incoming student with no Advanced Placement score will need to earn a grade of B or above in Biology 201 and 202 plus at least two other biology courses at the 300 level. An incoming student with an Advanced Placement score of 5 who skips Biology 201 and 202 will need to earn a grade of B or above in at least three courses at the 300 level.

2. Physics

Students must take a two-course sequence from PHY151-152-AP or 201-202-AP and at least two of the following electives: Fluids, Thermodynamics and Optics (PHY203-H), Physics in the Arts ([General Science] INDS-2), and Modern Physics (PHY301-H). If physics graduation credit was earned before enrolling at SCGSSM, then at least three of the listed physics electives must be completed.

3. Chemistry

Students must complete the following chemistry courses while at GSSM: the advanced Chemistry sequence (Chemistry 201 and 202) and at least one of the following: Chemistry 150 (Molecular Spectroscopy), Chemistry 300 (Introduction to Organic and Biochemistry), Chemistry 304 (Analytical Chemistry), Chemistry 306 (Computational Chemistry), or Chemistry 208 (Introduction to Inorganic Chemistry).

4. Mathematics

Students must make a B or above in any two of the following mathematics courses: Linear Algebra, Differential Equations, Discrete Structures, Multivariable Calculus, Number Theory, or Abstract Algebra.

5. Computer Science

Students must make a B or above in any two of the following computer science courses: C++ Applications, Visual Programming using Processing, Data Structures and Algorithms, Introduction to Artificial Intelligence, Introduction to Computer Networking, Introduction to Database Design, or Game Design, Prototyping, and Production.

6. Economics and Finance

Students must earn a B or above in at least three the following courses: Technology Ventures, Quantitative Financial Analysis, International Economics, Microeconomics, and Macroeconomics.

7. Humanities

Students must complete four electives, distributed among or concentrated in the English, foreign languages, or history departments. Electives may be chosen only after required courses in the department have been completed.

L. College Credit Hours for GSSM Courses

Credit Hours at Coker University, Clemson University, and the University of South Carolina for Coursework taken at the South Carolina Governor's School for Science and Mathematics

GSSM has a dual-enrollment agreement with Coker University through which our students receive Coker University credit for certain courses.

- **Dual-enrollment courses** are those for which GSSM students simultaneously earn high-school and college credit. College credit for GSSM's dual-enrollment courses is granted by Coker University. Coker University is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC or SACS), which is the recognized regional accrediting body in the southeast
- **GSSM faculty teach** our dual-enrollment courses in the same way they teach all our residential or virtual classes. GSSM faculty grade all work in the courses and assign students their grades. The courses are approved by Coker as meeting the same learning objectives as the Coker courses for which they receive credit.
- **Dual-enrolled courses taken while enrolled at GSSM receive the same GPA credit** as AP or IB courses, higher than courses designated as "honors." One 3-hour dual-enrolled course (taken in one semester) earns one unit of high school graduation credit.
- As with credits from most SACS-accredited colleges, **credits from Coker are transferrable to other similarly accredited institutions.** In addition, most schools within South Carolina have agreements in place that allow for the transferring of college credits. For instance, credits earned through Coker can be transferred to, among other schools, the University of South Carolina and Clemson University. A helpful resource in determining whether or how college credits will be transferred is the South Carolina Transfer and Articulation Center (SC TRAC). On SC TRAC's website (sctrac.org), students (or their parents) can search for course equivalencies across institutions. SC TRAC is updated semi-regularly, which means that students should confirm the transferability of their credits via the admissions department at the university or college they plan on attending. GSSM students who receive a "C" or higher ($\geq 70/100$) in their dual-enrollment courses are usually able to transfer their Coker University credits to other colleges and universities in South Carolina (and, in many cases, to other institutions across the Southeast). Letter grades below a "C" ($\leq 70/100$) are almost always ineligible for credit transfer, though they will most likely remain on the student's transcript when it is sent to the institution of matriculation. Colleges and universities set their own transfer policies, so for colleges outside S.C., students should confer with the college about its specific transfer credit policies.
- **Residential students work with their advisors to decide if a dual-enrolled course is best for them.** The registrar places them in the class just like any other GSSM class. Students also fill out a short application from Coker to register them as a Coker student.
- **Coker will issue a transcript** showing the college credit earned at Coker for each dual-enrollment class a few weeks after final grades are submitted. Official transcripts may be requested from Coker for a small fee (see <https://www.coker.edu/offices-services/academic-records/> FAQ: How can I order a copy of my transcripts?).
- **If you have questions** about dual-enrolled courses, contact the Director of Academic Programs, Matt Martin (mmartin@gssm@k12.sc.us).

GSSM also has memorandums of understanding with Clemson University and the University of South Carolina to grant college credit for university-approved GSSM courses that are closely aligned with the universities' courses.

- Students must earn at least a B in the GSSM course and a passing grade on the challenge exam which will serve as the final exam for the course in order to receive college credit if admitted to the university.
- Some courses in the agreement are in the Advanced Placement (AP) program while others are beyond this level. Students may continue to take the AP exams where applicable and are encouraged to do so.

The tables below specify the course equivalencies and credits granted by each university. Note that the tables are not the same for each university because the credit is based on matching GSSM courses with equivalent courses at the respective universities.

Dual-Enrollment Agreement with Coker University

Students receive college credit from Coker University for the following GSSM courses:

GSSM Course	Coker University Course	Credit Hours
CHI 101 Introduction to Chinese I	CHI 101	3
CHI 102 Introduction to Chinese II	CHI 102	3
CHI 201 Introduction to Chinese III	CHI 201	3
CHI 202 Introduction to Chinese IV	CHI 202	3
CSC 110 Computer Science I: Python for Scientist	CS 110	4
CSC 111 Computer Science II: C++ Application	CS 111	4
ECON 210 Principles of Economics: Macroeconomics Concepts	BA 222	3
ECON 211 Principles of Economics: Microeconomics Concepts	BA 223	3
ENG 111 English Composition and Rhetoric I	ENG 111	3
ENG 112 English Composition and Rhetoric II	ENG 112	3
ENGIN 102 Engineering Disciplines and Skills	EGR 102	3
ENGIN 141 Computer Applications 1 with MATLAB	EGR 141	3
ENGIN 208 Engineering Design and Modeling	EGR 115	3

Course Equivalencies at Clemson University

For Course Credit for GSSM Graduates who attend Clemson University

Clemson Course	Credits	GSSM Course ¹
<u>Biology</u>		
Principles of Biology I and Lab (BIOL 1100/1101)	5	BIO 201 and BIO 202
<u>Chemistry</u>		
General Chemistry I/II and Labs (CH 1010/1020)	8	CHE 201 and CHE 202
<u>Mathematics</u>		
Calculus of One Variable I (MATH 1060)	4	MAT 201 and MAT 202
Calculus of One Variable I/II (MATH 1060/1080)	8	MAT 203
Calculus of One Variable II (MATH 1080)	4	MAT 303
Elementary Statistical Inference (STAT 2300)	3	MAT 304 and MAT 305
<u>Physics</u>		
General Physics I and Lab (PHYS 2070/2090)	4	PHY 151 and 152
Physics with Calculus I and Lab (PHYS 1220/1240)	4	PHY 201
Physics with Calculus II and Lab (PHYS 2210/2230)	4	PHY 202

¹ Students must earn at least a B in the GSSM course and a passing grade on the challenge exam which will serve as the final exam for the course in order to receive college credit if admitted to the university.

Course Equivalencies at University of South Carolina

For Course Credit for GSSM Graduates who attend University of South Carolina

USC Course	Credits	GSSM Course¹
<u>Biology</u>		
Biological Principles I (BIOL 101)	4	BIO 202 and BIO 303
Biological Principles II (BIOL 102)	4	BIO 201, BIO 304 and BIO 308
<u>Computer Science</u>		
Algorithmic Design I (CSCE 145)	3	CSC 102
<u>Mathematics</u>		
Calculus I (MATH 141)	4	MAT 201 and MAT 202
Calculus I and II (MATH 141 and 142)	8	MAT 203
Calculus II (MATH 142)	4	MAT 303
<u>Physics & Astronomy</u>		
General Physics I and Lab (PHYS 201)	4	PHY 101 ² or PHY 151
General Physics II and Lab (PHYS 202)	4	PHY 102 ² or PHY 152
Essential Physics I and Lab (PHYS 211)	4	PHY 201
Essential Physics II and Lab (PHYS 212)	4	PHY 202
<u>Statistics</u>		
Elementary Statistics (STAT 201)	3	MAT 304 and MAT 305

¹ Students must earn at least a B in the GSSM course and a passing grade on the challenge exam which will serve as the final exam for the course in order to receive college credit if admitted to the university.

² The GSSM courses PHY 101 and PHY 102 taken before AY 2020-2021 are equivalent to the USC courses PHYS 201 and PHYS 202, respectively.

M. Independent Studies

Independent study courses are student-initiated and allow students to explore areas of interest beyond what is offered in the catalog. These courses are aimed at enhancing the quality of our academic program by allowing students to develop customized courses in areas of instructor expertise beyond the current course catalog.

Students wishing to enroll in an independent study course must wish to extend knowledge in a discipline where all relevant existing courses have been completed with a grade of 90 or above or with the permission of instructor and Curriculum Committee approval. The Curriculum Committee reserves the right to determine if all relevant courses have been taken in an area of study in order to warrant an independent study course. In some cases, it will be advised that a student take an existing course instead of an independent study course.

Independent study course content (as evidenced by course description, syllabus and any supporting material) must be approved by the Curriculum Committee. Proposals should be completed and submitted to the Department Chair no later than December 1st for a spring course and May 1st for a fall course.

Please note:

- Independent study courses are student-initiated and are considered to be a course contract between the student and faculty member to complete the course of study.
- Faculty members are under no obligation to teach an Independent Study.
- Independent study course proposals will typically be considered for 0.5 Carnegie unit (with a time commitment equivalent to a regular semester-long course).
- Independent study courses are overload courses and cannot count towards the 5 course/semester minimum without approval from the Senior Vice President for Residential.
- No student may take more than two independent study courses per academic semester.
- No faculty member may teach more than two independent study courses per academic semester.
- If a student is going to drop a class, the independent study class should most likely be the course dropped.

Course and Assembly Policies

N. Attendance, Absences, and Makeup Policy

To receive the full benefit of the academic experience at GSSM, participation with their classmates and teachers in all classes and labs is essential. Students are required to attend all of their classes and labs at GSSM unless they have excused absences. Online Excused Absence Forms must be submitted three days prior to the planned absence.

1. It is the responsibility of the student who is absent from class or other mandatory activities to ensure that all obligations are fulfilled. For excused absences, the following makeup work policy applies:
 - a. Students should email their instructor reminding them or informing them in the case of an unexpected absence (i.e. illness) that they will not be present for class.
 - b. Prior to returning to class, students should check the online excused absence submission for instructor comments, directions, assignments, etc. The student should also check Canvas or use other methods to determine what was covered and what was assigned.
 - c. Work that is assigned prior to the excused absence and due the day of an excused absence must be turned in within two (2) class meetings from the day the student returns to class. The first of those two days is the day the student actually returns to class.
 - d. Work that is assigned during a class period in which the student has received an excused absence must be completed within five (5) calendar school days (Monday – Friday), not class meetings, from the day the student returns to class. The first of those five days is the day the student actually returns to class.
 - e. If a student is excused for three (3) or more consecutive classes in a course, the student must meet with the instructor to determine an appropriate time frame to complete work due during the classes missed as well as new assignments. This meeting should occur before or on the day the student returns to class. The appropriate Department Chair and/or the student's academic advisor can assist in coming up with an appropriate plan if necessary.
 - f. Long-standing assignments should be submitted prior to the excused absence, on time via online submission or by some other appropriate form of delivery. When this is not feasible, work should be submitted on the first class meeting when the student returns to class. A long-standing assignment is defined as one that is assigned two weeks or more in advance of the date of the student's first day of an excused absence.
 - g. The instructor has the discretion, but not the obligation, to work with the student to extend any of these make-up policies. It is in the student's best interest to communicate with the instructor as quickly as possible during times of planned excused absences or times of illness or other unexpected absences.

2. There are four categories of absences:
 - a. **Category I:** This category includes absences for illness, doctor appointments, events sponsored by GSSM, scholarship interviews, funerals, and other situations that GSSM staff determine to be of a similar nature. Although there is no official limit to the number of days for this type of absence, please make plans that avoid missing classes when possible.
 - b. **Category II:** Students may take up to five academic days for college visits during their two years at GSSM. Please use long weekends, holidays, and summer breaks to minimize the loss of academic days.
 - c. **Category III:** Up to three days each year may be taken for family and personal matters. This category includes various family activities, traffic court, and similar reasons. Save these days for unanticipated events when possible.
 - d. **Category IV:** Un-excused absences include but are not limited to over-sleeping, skipping, extra-curricular activities, club meetings, and absences related to part-time/full-time jobs (GSSM Students are not permitted to hold jobs while attending GSSM due to the academic rigor.) If an absence is denied by an instructor and the student still chooses to miss that class, the absence will be considered unexcused. Absences in this category should be rare at GSSM.

3. **Online Excused Absence Form Procedures**
 - a. Anticipated Absences for Scheduled Appointments in Categories I, II, and III
 - i. Students must complete the online excused absence form through GSSM's student portal, using their GSSM login credentials at least 3 full class days prior to the scheduled absence.
 - ii. Instructors will approve/deny requests and may post comments/instructions with their approval/denial. It should be noted that absences that are non-medical in nature are at the discretion of the individual instructor, and failure to meet the deadline could result in an absence request being denied.
 - iii. Instructor comments may include, but are not limited to, reasons why an absence is not approved, instructions/assignments for the scheduled missed class, instructions to visit office hours, cheerful message regarding scheduled trip, etc.

- iv. Weekend leave submissions, which are required for any overnight absence, must be submitted and reviewed through REACH and signed off on as part of the excused absence.
 - v. Final approval of the absence resides with either the Senior Vice President for Residential or the Vice President for Student Development.
 - vi. Once an absence is approved, attendance will be recorded.
 - vii. Status updates regarding excused absences can be viewed at any time by logging back into the request form in the GSSM Student Portal.
 - viii. Email notifications are system generated and may be marked as spam or end up in students' junk folders; checking both places for notifications is recommended.
 - ix. When students return, medical notes need to be turned into the nursing staff on the day of the return.
 - b. Unanticipated Absences in Categories I and III (e.g. illness, bereavement, family emergencies, etc.)
 - i. In the case of illness, students must see the School Nurse, a Residence Life Coordinator, or the Dean of Students prior to missing a class or the absence will be recorded as unexcused. The procedure for reporting illness is as follows:
 - If a student is ill, he/she/they must go to the School Nurse. If the nurse is not in the office, the student should call the Residence Life Coordinator on duty.
 - If a student is in class and becomes ill, the student should ask permission from the instructor to leave class to see the nurse.
 - When the student sees the nurse, the nurse may determine the student needs to see a doctor and will make the appropriate recommendation to the student. If a visit to the doctor is recommended, the nurse, in consultation with the student's parent/guardian will schedule the appointment.
 - ii. For bereavement and family emergencies, the online excused absence form should be completed by students if there is time. If there is not time, an email from the parent/guardian should be sent to the Program Coordinator for Academic Affairs and Student Development.
 - c. Any questions about absences, the process, online submissions, and/or REACH submissions can be sent to the Program Coordinator for Academic Affairs and Student Development.
4. The same process applies and should be followed for students attending field trips, academic competitions, athletic events, missing academic Saturdays, etc. For any Friday and/or Monday absences that will include a weekend not designated as a long weekend, a weekend leave request must be submitted through REACH in addition to the Online Excused Absence Form. (See Weekend Leave Request section of this handbook.) Advance notice is needed to ensure the safety of our students as well as to efficiently manage school operations.
 5. Excused Absence Requests not submitted on time may not be processed, and the absence(s) may be recorded as unexcused regardless of instructor and parental approvals. Advanced notice will be waived for emergencies only.
 6. All students should accept personal responsibility for attendance and understand its importance to their education. This includes unexcused absences. Teachers may assign academic penalties for unexcused absences based on the missed opportunity for learning in the particular course, lab, or presentation (e.g. Colloquium and SCJAS) as outlined in the syllabus for the course or lab. The penalties will be imposed separately for each course or lab and will not exceed the following guidelines:
 - a. Missed quizzes, tests, late work or required presentation: A reduction of up to 3 points on the Uniform Grading Scale (UGS) for the semester grade. Daily work (i.e. pop quizzes) will be made up at the discretion of the teacher as described in the course syllabus. Students should ask the instructor via email or in person about what was covered and if any newly assigned work was given prior to returning to the class if possible, and if not possible before returning to class, then during the class period when the student returns. Make-up of major tests and labs is mandatory. Please note that participation in Colloquium and SCJAS are required and attending both should be prioritized. Providing make up opportunities may be difficult; and the academic penalties for not participating significant.
 - b. First absence: The teacher may warn and counsel the student about missing class.
 - c. Second and each subsequent occurrence: Reduction of up to 3 points on the UGS for the semester may be imposed by the teacher.
 - d. The combination of penalties stated above for missing a class and for graded work during the same class may not exceed 4 points on the UGS.
 - e. Successful completion of the three Junior Seminars and the mini-seminars is a graduation requirement. Attendance policies and consequences are outlined in the syllabus for each seminar. Students are responsible for adhering to these policies.
 7. Absences in excess of the limit in a category will be recorded as unexcused. There will be a few academic days when Category II and III absences are not permitted (for example Research Colloquium and SCJAS annual meeting) due to the importance and uniqueness of these days. Such days will be announced well in advance to parents and students.
 - a. No credit will be given for a course if a student is absent from a class or lab more than **10** of the scheduled meetings (total of excused and unexcused absences). For extraordinary circumstances, waiver requests may be made by the parents to the Senior Vice President for Residential.

- b. Students are expected to be on time for all scheduled classes. Tardies in a course that add up to 20 minutes during the semester may be counted as an unexcused absence.
- c. A deficiency form will be mailed to parents if a student has three unexcused absences in a course or two unexcused absences in a science lab during a semester. The necessity to schedule language labs in the evening creates a unique set of circumstances. Therefore, the policy for language labs is determined by the foreign language teachers and posted separately. The policy will be in the spirit of the overall GSSM policy for absences.

O. General Course Policies

Add/Drop

The last day for adding a course is seven school days after classes have begun. The last day to drop a course without it appearing on the transcript is four weeks. Courses may be dropped until midterm with a notation of withdrew passing (WP) or withdrew failing (WF) on the transcript. These dates are listed on the GSSM Academic Calendar.

Auditing

Students can audit a class, with prior approval of the instructor and consent of the Senior Vice President for Residential, without receiving a grade or credit, provided there is space available. Specific requirements about completing homework, projects, tests, etc. are at the discretion of the teacher.

Tests and Assignments

Tests requiring the entire class period should be announced to the class in advance of the test date. No student is required to take more than three full-period tests on any day. Short (less than 20 minutes) quizzes may be given without prior notification. Major paper assignments and due dates should also be announced in class well in advance of the due date.

Faculty members should assign only a minimum amount of homework over a long weekend or after a major school event (all-day trip, convocation, prom, etc.). If at all possible, these assignments should be made well in advance of the weekend or event. No assignments should be made over vacation breaks, such as Thanksgiving, Christmas, winter, or spring break.

No quizzes or tests should be given on the first class after a long weekend or vacation break.

Course Instructors and Course Times

Students cannot select instructors or course times. It is important to learn how to learn in all situations and from a variety of teaching styles. Learning from our diverse and talented instructors will prepare you for learning in the college setting and beyond. In order to provide the best educational experience, we try to have a similar number of students in each class. Since a number of our courses are taught in one semester and since we allow students to add and drop courses at the beginning of semesters, we sometimes need to rebalance classes for instructors at the beginning of each semester and sometimes after a few weeks into a semester.

Course Placement

Every effort is made to place juniors in courses that are at the correct level based on their previous academic experience. Occasionally, a student may be misplaced. In such cases, the Senior Vice President for Residential, in consultation with the subject teacher and faculty advisor, may shift a student to a different level course. The deadlines and recording rules noted above are waived in these unusual circumstances.

Grade Reporting

Grades are given to students and sent home to parents after the mid-term of each semester and after semester exams. Instructors are encouraged to provide feedback, especially for juniors, throughout the year. At any time, students can ask their instructors about their grades; however, we encourage students to take responsibility for knowing what their grades are in courses by recording them and referring to the syllabi for their courses.

Instructor Absence

In case of the unplanned absence of an instructor, a note dated and signed by a faculty or staff member will be posted on the classroom door and/or through email. If there is no note and an instructor has not arrived for class within 5 minutes of the start time, one student should verify that the instructor is not in his or her office and then inform the Senior Vice President for Residential or another member of the staff. All students will remain in the classroom until a staff member has given them further instructions or dismissed them.

Meetings with Instructors

If a teacher requests a meeting with a student, the student is expected to attend the meeting. A missed meeting will result in a level-1 offense (2m. Missing an appointment or required meeting).

Semester Exams

Exams are given in most courses in December and May. A few courses do not lend themselves to final exams, and a project or final paper may be assigned in lieu of an exam. For seniors with A's in a course, a teacher may elect to exempt them from the May exam only.

Textbooks

GSSM provides textbooks for all students. Student are responsible for returning the books in good condition at the end of the course. Damaged or lost books will be charged to the student. No grades or transcripts will be available to a student until all outstanding financial obligations are met. Books borrowed from the Coker University library are similarly the responsibility of the student.

Transfer Credit

GSSM gives credit for all courses on the home school transcript. After entering GSSM, students may not take summer or online courses in lieu of GSSM requirements or for credit on the GSSM transcript without permission from the Senior Vice President for Residential.

P. Meetings and Assemblies

Unexcused absences from required meetings and assemblies will be considered an infraction and will be sanctioned accordingly. Decorum for attendance at meetings and assemblies includes the following:

1. Students may not wear hats/baseball caps.
2. Students must remain awake and alert for the entire program.
3. Students must exhibit courteous and appropriate behavior that includes, but is not limited to, no talking, eating, drinking, whispering, passing notes, or feet up on chairs or railings, etc.
4. Students may not wear or use headphones and should not bring electronic devices to an assembly meeting.
5. Students are expected to attend all mandatory assemblies and to be on time.
6. Any faculty and/or staff members may cite a student for inappropriate behavior during an assembly.