

THE
Gregory School

*A Tradition of
Inspiring Excellence*

Upper School
Curriculum Guide
2021—2022

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GRADUATION REQUIREMENTS

At least 26 units of credit are required for graduation. Freshmen are required to take seven courses each semester. Sophomores, juniors and seniors are required to take a minimum of six courses each semester. Of these, at least five courses per semester must be academic for freshmen and sophomores, and at least four per semester must be academic for juniors and seniors. The following credits are required:

Subject	Credits
English	4
Fine Arts	1
Languages	3 in the same language (at least 2 of that language in grades 9-12)
Mathematics	4 (at least 3 in grades 9-12)
Physical Education	1 (recommended in grade 9)
Science	4 (must include 3 lab sciences)
Social Sciences	4 (must include World Civilizations and U.S. History)

Arizona universities require a GPA of 2.0 (on a 4.0 scale) in each subject area listed above, except Physical Education.

Faculty monitors progress when a student takes more than the minimum required load of six courses in any given year. Students may petition to take a course for which they do not have the required prerequisites.

Gregory School students have a community service requirement of ten hours per year for freshmen and sophomores, fifteen hours per year for juniors, and sixty hours per year for seniors as part of the Senior Internship. Students must complete this requirement before starting the next school year; community service hours completed in the summer may apply toward the previous school year or the upcoming school year.

2021-22 UPPER SCHOOL CURRICULUM OUTLINE

Ninth Grade Courses
<i>Freshmen must take at least seven courses per semester. Five of those courses must be from the list of required academic courses.</i>
Required Academic Courses: English 1 Math (placed by the department) Biology World Civilizations French, Latin, Mandarin or Spanish
Required Electives: Physical Education One Elective Course Study Hall (required during first quarter for freshmen and new students)

Tenth Grade Courses
<i>Sophomores must take at least six courses per semester. Five of those courses must be from the list of required academic courses.</i>
Required Academic Courses: English 2 Math (placed by the department) Chemistry Social Sciences* French, Latin, Mandarin or Spanish
One or two Elective Courses
<i>*Beginning in 2020, the full year of U.S. History required for graduation can be taken in grades 10-12.</i>

Eleventh Grade Courses
<i>Juniors must take at least six courses per semester. Four of those courses must be from the list of required academic courses. Five academic courses are recommended.</i>
Required Academic Courses: English 3 Math (placed by the department) Lab Science Social Sciences* French, Latin, Mandarin or Spanish (if requirement not yet met)
One or two Elective Courses
<i>*Beginning in 2020, the full year of U.S. History required for graduation can be taken in grades 10-12.</i>

Twelfth Grade Courses
<i>Seniors must take at least six courses per semester. Four of those courses must be from the list of required academic courses. Five academic courses are recommended.</i>
Required Academic Courses: English 4 or AP English Math (if requirement not yet met; placed by the department) Science Social Sciences* French, Latin, Mandarin or Spanish (if requirement not yet met)
One or two Elective Courses
<i>*Beginning in 2020, the full year of U.S. History required for graduation can be taken in grades 10-12.</i>

COURSE PLANNING

Petition to Waive Prerequisites

Students may petition to waive prerequisites for courses they wish to take. All prerequisites are listed in this guide. A petition form must be filled out by the student, signed by a parent, and given to a teacher who has taught the student in the department the desired course is offered. The teacher will approve or disapprove the petition, and give it to administration for a final decision. The Registrar will contact the student with the decision.

PE Exemption

A ninth grade student who has a consistent, significant commitment to one or more physical activities outside of school may be exempted from the P.E. requirement in order to 1) take six or more academic courses or 2) add a second elective to the required five academic courses and one other elective course. The student and a parent must write and sign a letter requesting the exemption.

Placement in Math Courses for Students New to the Upper School

The goal of math placement is that each student enrolls in the course that is most appropriate to his or her level of skill and knowledge upon enrollment. The math department, in consultation with the admission office and registrar, considers each new student's test scores and academic background to decide an appropriate starting level. New students will be contacted by a school official to schedule math placement exams.

Placement in Language Courses for Students New to the Upper School

The goal of language placement is that each student enrolls in the course that is most appropriate to his or her level of skill and knowledge upon enrollment. It is essential that every student have the necessary foundation for the level in which he or she will study in the upper school; finding the level that is the best fit for each student, both linguistically and developmentally, is one of our primary placement goals. New students will be contacted by a school official to schedule language placement exams after students select courses for the 2021-2022 academic year.

ACADEMIC PROCEDURES

Course Changes

Changes may be made after the start of classes only with permission of the administration and, if the student is a junior or senior, the Director of College Counseling.

In the upper school, the teachers of the course(s) dropped and added sign a course change form, and a parent signs.

Students may change courses during the first three weeks of the first semester with no withdrawal shown on the transcript.

After the three-week drop period, a student remains in a full-year course for the entire school year or a semester course for the entire semester, unless there are special circumstances.

Any time after the first three weeks of the first semester, a dropped upper school course shows on the transcript with a "W" for withdrawal. Courses dropped before the end of a semester receive no credit.

Under no circumstances is a student allowed to drop a class in the last two weeks of the semester.

Upper School Courses Taken During Middle School

Gregory School middle school students will receive credit for upper school courses they take during grades six through eight if they continue studying the next level in that department as an upper school student. The grade and credit for upper school classes will be added to the student's upper school transcript. It will be included in the ninth grade and cumulative GPAs.

When a student transfers from another school, The Gregory School acknowledges upper school credits earned during middle school, and those credits are counted toward graduation requirements as they were given at the school from which the student transferred. The grades and credits are not added to the Gregory School transcript. The transcript/report card is kept on file.

Upper School Transfer Credits

1. Courses taken by students who transfer to The Gregory School from other American secondary schools:

The Gregory School acknowledges credits issued from other schools, and those credits are counted toward graduation

requirements as they were given at the school from which the student transferred. The course and grades are not added to the Gregory School transcript. The transcript from the previous school will be kept on file as part of the student's full transcript record.

2. External (non-TGS) credits

Students at The Gregory School must take each REQUIRED course at The Gregory School. Exceptions may be made for approved courses taken for acceleration. Students may also retake courses which they did not pass at The Gregory School for credit recovery upon approval by the administrative team.

The following policies pertain to courses that students take outside of The Gregory School while they are Gregory School upper school students.

External courses must be pre-approved by the administrative team. If necessary, the administrator will request a course description listing topics covered, texts used, and a grading scale for the course.

a. External courses for credit recovery

If a course is approved at another institution for credit recovery (i.e., the student did not earn credit in the course taken at The Gregory School), the student's grade for that approved course is accepted by The Gregory School. The student receives credit for the external course. The student must provide official documentation of the final grade in the course. The course and grade are not added to the TGS transcript. The separately earned transcript will be kept on file as part of the student's full transcript record. Proof of successful course completion must be provided to the Registrar prior to enrollment in the next level course.

A student that is approved by his/her current Mathematics teacher and the Mathematics Department to take the BYU online math course must do so in a "timely fashion." Since the BYU course currently takes a minimum of 4-months to complete, students must begin no later than mid-March of the passing academic school year to complete the course by the start of the following academic school year. When a student provides TGS with an official transcript of completion, they will be enrolled in the next Mathematics course offered in the current US Mathematics sequence, as determined by the Mathematics Department.

b. External courses for prerequisite acceleration

If a course that is a prerequisite for another The Gregory School course is approved and taken at another institution for acceleration, the student may be required to take The Gregory School exam for that course at the department's discretion. If so, a passing score must be earned on the exam for the student to receive credit for the course. The student must provide official documentation of the final grade in the course. The course and grade are not added to the TGS transcript. The separately earned transcript will be kept on file as part of the student's full transcript record. Proof of successful course completion must be provided to the Registrar prior to enrollment in the next level course.

If a course that is not a prerequisite for another The Gregory School course is approved and taken at another institution for acceleration, the student receives credit for the course. The student must provide official documentation of the final grade in the course. The course and grade are not added to the TGS transcript. The separately earned transcript will be kept on file as part of the student's full transcript record.

A student that is approved by his/her current Mathematics teacher and the Mathematics Department to take the BYU online math course must do so in a "timely fashion." Since the BYU course currently takes a minimum of 4-months to complete, students must begin no later than mid-March of the passing academic school year to complete the course by the start of the following academic school year. When a student provides TGS with an official transcript of completion, they will be enrolled in the next Mathematics course offered in the current US Mathematics sequence, as determined by the Mathematics Department.

c. External courses for elective credit

If a course that is not a prerequisite for another The Gregory School course is approved and taken at another institution for personal enrichment, the elective credit for the course will be applied as determined by the administrative team. The student must provide official documentation of the final grade in the course. The course and grade are not added to the TGS transcript. The separately earned transcript will be kept on file as part of the student's full transcript record.

If a course that is not a prerequisite for another The Gregory School course is approved and taken at another institution as an Independent Study facilitated by a TGS Faculty member, the student receives credit for the course as determined

by the administrative team. The student must provide official documentation of the final grade in the course. The course and grade are not added to the TGS transcript. The separately earned transcript will be kept on file as part of the student's full transcript record.

Upper School Independent Study Courses

An independent study proposal may be made by a student who has a strong academic record, a demonstrated capacity to work independently, and an unusual degree of scholarly interest in a course that is not available in The Gregory School curriculum. The student must be able to find a Gregory School faculty member willing to help design and supervise an independent study in that area of interest, and then submit a proposal to the Academic Committee for review.

The guidelines for independent studies are as follows:

1. Independent study courses are generally limited to one semester;
2. The student and the faculty member overseeing the independent study must submit a complete proposal to TGS Administration at least one month prior to the beginning of the independent study, unless there are extenuating circumstances;
3. A course available in the curriculum (even if not currently) may not be taken as an independent study;
4. There are two types of independent study courses: those which a student and faculty member develop together that are supervised by the teacher, and those where the faculty member is supervising a student working with an outside instructor on an approved course of study;
5. Normally, a faculty member may supervise only one independent study course in a semester;
6. All proposals are reviewed and accepted/rejected by TGS Administration.

The proposal from the student and teacher must include the following:

1. Name of the course;
2. Semester in which the course will be offered;
3. Rationale for the course, including personal statement of what the student hopes to gain;
4. A syllabus which describes the material covered, in sequence;
5. A list of meeting times, or a description of when meetings will occur;
6. A list of assignments/tests/presentations/projects with due dates;
7. A description of how student performance is assessed (with rubrics, if applicable), including the weight of each grading category;
8. Teacher Signature;
9. Student Signature.

After the student has provided all of the information above, the proposal is to TGS Administration.

ELL STUDENTS

ELL (English language learner) students are students born in non-English-speaking countries. Course requirements and grading policies are adjusted as follows:

1. For their first year in the U.S., ELL students take ESL in addition to English (exceptions may be made based on language proficiency). This is not graded Pass/Fail. After the first year, teachers may recommend additional ESL course work.
2. ELL students who have been in school in the United States for less than three years may be exempted from the three-year foreign language requirement if they choose.
3. In courses other than English and Languages, ELL students are placed as appropriate and have the same graduation requirements as other Gregory School students.

ADVANCED PLACEMENT COURSES AT THE GREGORY SCHOOL

The Gregory School upper school curriculum values critical thinking, reading, and writing, which means that coursework emphasizes close reading, presentations, projects, and class discussions. While all Advanced Placement (AP) courses meet the criteria of the College Board AP Course Audit, Gregory School AP course curricula are designed to meet the school's broader educational goals.

Enrollment in AP courses is based on grades in prerequisite courses. No limit is specified as to the number of advanced placement courses a student can take. Up to fifteen advanced placement courses are offered (see list on next page), depending on demand. AP courses earn an extra weight of 0.5 in a student's GPA.

AP courses, being college-level courses, frequently require more out-of-class work than non-AP classes; students must take this into consideration when choosing courses. Some AP courses require additional labs.

All AP courses focus on the skills and preparation required to perform well on the AP exam, but do not necessarily emphasize specific test-taking strategies. Students who wish to take AP exams may need to attend additional test preparation sessions in order to perform well on the tests, which must sometimes occur outside of class time.

Any student may sit for an AP exam. Students can speak with teachers and/or the college counselor about whether taking the exam is an appropriate choice for them.

AP SUBJECT	
Biology	Physics 1
Calculus AB	Physics C - Mechanics
Calculus BC	Physics C - Electricity and Magnetism
Chemistry	Spanish Language and Culture
Computer Science	Spanish Literature and Culture
English Literature and Composition	Statistics
French Language and Culture	U.S. Government and Politics
Latin	U.S. History

To see which colleges award AP credit, please visit the College Board AP Credit Policy Search at <https://apstudents.collegeboard.org/getting-credit-placement/search-policies>.

2021 - 2022 COURSES

ENGLISH

English 1
English 2
English 3
English 4
AP English (Literature & Composition)
Creative Writing
Advanced Creative Writing A/B
Beginning Journalism
Journalism Process 1
Journalism Process 2
Advanced Journalism
Beginning Yearbook
Advanced Yearbook

FINE ARTS

Intermediate Band
Advanced Band
Choir 3A/3B
Beginning Piano
Intermediate Piano
Beginning Guitar
Intermediate Guitar
Advanced Guitar
Advanced Music Theory, History & Composition
Studio Art 1A/1B
Studio Art 2
Studio Art 3
Advanced Studio Art
Fiber & Textile Arts
Art History
Photography 1
Photography 2
Photography 3
Digital Design 1
Digital Design 2
Beginning Digital Painting/Illustration
Intermediate Digital Painting
Dance 1
Dance 2
Choreography Lab
Stagecraft A/B
Theater Production 1
Theater Production 2
Theater Design
Beginning Drama A/B
Intermediate Drama 1
Intermediate Drama 2
Advanced Drama

LANGUAGES

French 1
French 2
French 3
AP French Language & Culture
Francophone Identities
French for Immersion Students
Latin 1
Latin 2
Latin 3
Latin 4
AP Latin
Mandarin 1A
Mandarin 1B
Mandarin 2
Mandarin 3
Spanish 1
Spanish 2
Spanish 3
Spanish 4
AP Spanish Language & Culture
AP Spanish Literature & Culture

MATHEMATICS

Algebra 1
Geometry
Advanced Geometry
Algebra 2
Algebra 2/Trigonometry
Precalculus
Advanced Precalculus
Elements of Calculus
Statistics
AP Statistics
AP Calculus AB
AP Calculus BC

PERSONAL DEVELOPMENT

The Farmyard Classroom
Garden to Table
Junior College Seminar
Senior College Seminar
Physical Education
Yoga
Dance 1
Dance 2
Choreography Lab
Physical Conditioning for Athletes

SCIENCE

Biology
Chemistry
Physics
Principles of Animal Science
Principles of Plant Science
Physical Geography of the Southwest
Human Anatomy & Physiology
AP Biology
AP Chemistry
AP Physics 1
AP Physics C - Mechanics
AP Physics C - Electricity & Magnetism
Computer Science A/B
Topics in Computer Science
AP Computer Science
Technology Innovation: Design & Build A/B

SOCIAL SCIENCES

Topics in World Civilizations
United States History Survey
AP United States History
Global Social Issues
Global Youth Identities
Roman History
History of World Sports
AP U.S. Government & Politics
Microeconomics
Macroeconomics
Entrepreneurship
Psychology & Literature
Psychology & Film

COURSE OFFERINGS AND PREREQUISITES

All courses are offered for one full year except where noted. Credit is awarded at the end of each semester. Prerequisite grades are based on the second semester of the prerequisite course, if based on a year-long course.

Course Types
Academic course required for graduation
Course required for graduation
Academic elective course
Performance/production based elective course
Elective
Non-credited elective course

ENGLISH

English 1

English 1 provides students with an introduction to academic writing necessary for high school and college, including a study of grammar and usage, college level vocabulary, sentence and paragraph construction as well as essay writing. This course is a study of modern rhetoric, including descriptive, narrative, expository (including research), and persuasive forms of discourse. Students are also introduced to the principles of literary analysis as they read fiction, poetry, and creative nonfiction. Throughout the course, students learn to appreciate and analyze a wide range of texts, developing their own voices in the process.

Grade level: 9

Course type: Academic course required for graduation

Course number: 11

English 2

English 2 builds upon students' ninth grade coursework in expository and argumentative writing and focuses on critical reading and thinking skills within an American literature-based curriculum. Works of American literature are organized chronologically to emphasize historic and thematic progressions. The end of the year goal for each student will be to evaluate a text, analyze literature and explore related thematic topics, demonstrate logic and organization in writing and speaking, and write clearly and coherently.

Grade level: 10

Course type: Academic course required for graduation

Course number: 12

English 3

English 3 begins to look closely at thematic concepts such as “identity,” “loyalty, or “dehumanization” for example, as they apply to the genre, craft, and essential questions of the works selected. The works range from the current play being performed by the Utah Shakespeare festival to classic and contemporary selections, including non-fiction, which explore the works through the 6 cs of communication, compassion, creativity, critical thinking, collaboration, and community. The Socratic Seminar is practiced throughout the year as a primary means through which students learn to communicate in a group setting.

While the junior critical paper is the primary writing focus in the last quarter, all other essays are designed to help students look closely at the lens they have chosen for this major writing unit, which closes out the junior year.

Grade level: 11

Course type: Academic course required for graduation

Course number: 13

English 4

English 4 builds upon the in-depth analytical skills exercised during the literary and junior critical paper units. Students continue to engage in the scholarly discourse of the Socratic seminar and other presentational techniques. In an effort to develop strong opinions with valid scholarly support, students read and evaluate articles on the works they are exploring, encouraging them, always, to become even more comfortable with the argumentative discourse of the previous year. Works range in genre and explore both classic and contemporary literary examples.

Grade level: 12

Course type: Academic course required for graduation

Course number: 14

AP English (Literature and Composition)

AP English is a writing-intensive, college-level course intended to prepare students to bypass the usual required college freshman English course by performing well on the AP English Literature and Composition examination. This course concentrates on advanced critical reading, writing, and analytical skills, examining a range of genres with an emphasis on close examination of texts, interpretation, and writing about literature, including poetry, fiction, non-fiction, and drama. Students planning to take the AP examination have a chance in the spring to practice the test-taking skills needed for the exam. This course is taken in place of English 4.

Grade level: 12

Course type: Academic course required for graduation

Course number: 40

Prerequisite: B+ (87%) or better in English 3

Creative Writing

The intermediate level of the creative writing program is open to ninth and tenth grade students who are interested in serious pursuit of the craft of writing. Creative Writing will focus on the short story and novella, with a long poetry unit in the spring. Students will be encouraged to write fiction in all genres and styles. There will be more study of the technical elements of fine prose, with more editing sessions and roundtable peer reading. At the end of every year and semester, we will create a portfolio of each student's best work.

Grade levels: 8-10

Course type: Academic elective course

Course number: 9

Advanced Creative Writing A/Advanced Creative Writing B

In Advanced Creative Writing, upperclassmen work on a variety of writing projects large and small in multiple genres, developing their individual writing process. The first semester is organized according to several of the perennial themes that writers return to: love, loss, nature, politics. Students practice reading at the level of craft, analyzing the decisions writers make. Students write in and out of the classroom, frequently sharing their work with each other and learning how to effectively workshop each other's drafts. If Juniors and Seniors have successfully completed the first semester, they may elect to take the second semester course, Advanced Creative Writing B, which offers writers the opportunity to create a long-term project of their choosing, fashioned after the independent study model.

Grade levels: 11-12

Course type: Academic elective course

Course number: Advanced Creative Writing A -687/Advanced Creative Writing B - 688

Course offered: First semester/Second semester elective

Journalism Program: The journalism program at The Gregory School is unique in that, unlike similar programs in many high schools, the publication of the school newspaper, *The Gregorian Chant*, is an integral part of the core curriculum. As such, the classes are examples of authentic assessment at its best. All enrolled students participate in the production of the school newspaper, and the program is structured to allow students who choose to repeat the class over a span of years to sequentially ascend the various levels indicative of increased proficiency, competency, and leadership potential.

Currently, four levels are offered. Students may enroll in the program at any grade in the high school. Priority will be given to students already enrolled in the program. This course provides the opportunity for young journalists to develop their writing skills, find their public voices, and produce their own newspaper for the school community.

Beginning Journalism

The focus is on learning the basics of journalistic writing. Students are also introduced to the media and explore its role and function within the context of a democratic society. Class lessons taught by the faculty advisor and guest journalists, as well as workshops offered by the Advanced Journalism students, provide the context in which this course of study is conducted. Writing and editing news articles comprise much of the work completed by first year students, including "on the ground" reporting assignments, as students begin to hone their skills. By the second semester, students have begun their introduction to the Adobe InDesign layout software, the application used for the production of the school newspaper.

Grade levels: First-year students, grades 9-12

Course type: Performance/production based elective course

Course number: 52

Journalism Process 1 and 2

Journalism Process 1 and 2 includes students who are now proficient writers, researchers, and interviewers. A serious commitment of time is also expected during copy editing and layout sessions. Round table discussions of current events and news analysis are a part of the class work completed by Journalism Process students.

Competency is also measured in a student's ability to utilize the publication software programs, engage in self-directed tasks, and actively participate as a full-fledged member of the newspaper reporting staff. Additionally, evaluation at this level involves assessment of the staff's production of the newspaper and success at team-building tasks. Students who show superior initiative and promise at this level may ascend to the Advanced Journalism class.

Journalism Process 1: Story Development

Grade levels: Second-year students, grades 10-12

Course type: Performance/production based elective course

Course number: 53

Prerequisite: B (83%) or better in Introduction to Journalism or Beginning Journalism

Journalism Process 2: Publishing

Grade levels: Third-year students, grades 11-12

Course type: Performance/production based elective course

Course number: 54

Prerequisite: B (83%) or better in Journalism Fundamentals 1 or Journalism Process 1 or A- (90%) or better in English 3

Advanced Journalism

This class is for fourth year (and some exceptional third year) students. Students who pursue this option are expected to work at advanced levels in all areas of the class, and most likely hold senior editorships on the newspaper staff. Not only are students at this level experienced high school journalists, but they also demonstrate a depth and breadth of knowledge in the areas of page design, layout, copy editing, press law, scheduling, task management, and peer leadership. They direct each issue of the newspaper published by the class, manage the staff, and lead student workshops in class. Students at this level are evaluated in the fashion of many typical job performance reviews.

Grade levels: 11-12

Course type: Performance/production based elective course

Course number: 31

Prerequisite: B (83%) or better in Introduction to Journalism and A (93%) in one or two years of Journalism Fundamentals or Journalism Process

Beginning Yearbook

This yearbook class covers all aspects of creating the annual Gregory School yearbook, *The Summit*. The course introduces students to specific computer software, photography, layout and design, timelines, and deadlines. The time commitment to yearbook exceeds the scheduled class periods. Each member of the yearbook class is asked to be present at various school activities and sporting events for photography opportunities. Most of the yearbook's computerized layouts are completed during open labs. This class is graded pass/fail.

Grade levels: 9-12

Course type: Performance/production based elective course

Course number: 23

Required: Camera (high resolution digital camera strongly recommended)

Advanced Yearbook (Second-, third-, and fourth- year staff members)

This course builds on the skills developed in Beginning Yearbook, emphasizing the improvement of visual design, photography, editing, and journalism. Staff members at this level may be asked to serve as editors, overseeing other staff members' work. Editors make the final decisions regarding layout, design, and theme of the book. This class is graded pass/fail.

Grade levels: 10-12

Course type: Performance/production based elective course

Course number: 24

Prerequisite: Beginning Yearbook

Required: Camera (high resolution digital camera strongly recommended)

FINE ARTS

Intermediate Orchestra Strings

Intermediate orchestra is designed for students in grades 5 - 12 to play standard orchestral instruments (violin, viola, cello, or bass) in an ensemble setting. Students must have played their instruments for at least one year and should be able to read music at a rudimentary level. In most cases students provide their own instruments. This course is an extension of beginning orchestra. Students will continue to develop their instrumental skills throughout the course while playing selections from a variety of musical styles. Since musical selections vary from year to year, this course may be repeated. Students will have several performances throughout the school year. This course is performance-based and school concerts and other performances are included in the grading rubric.

Grade levels: 5-12

Course type: Performance/production based elective course

Course number: 269

Prerequisite: Beginning orchestra or at least one year of playing experience on violin, viola, cello, or bass

Required: Some after-school and weekend commitments

Intermediate Band

Intermediate Band is designed for students in grades 5 - 12 to play standard wind or percussion instruments in an ensemble setting. Students must have played their instruments for at least one year and should be able to read music at a rudimentary level. In most cases students provide their own instruments. This course is an extension of beginning band. Students will continue to develop their instrumental skills throughout the course while playing selections from a variety of musical styles. Since musical selections vary from year to year, this course may be repeated. Students will have several performances throughout the school year. This course is performance-based and school concerts and other performances are included in the grading rubric.

Grade levels: 5-12

Course type: Performance/production based elective course

Course number: 97

Prerequisite: At least one year of instrumental experience, prior Beginning Band, or permission of the Instructor as determined through a short audition process.

Required: Some after-school and weekend commitments

Advanced Band

Advanced Band is for those students who are ready to perform more advanced music. Students must have had at least two years of previous experience playing a standard wind or percussion instrument, and they must have the recommendation and signed approval of the band teacher. An audition may be requested. Students will gain experience in playing more challenging and difficult music from a variety of musical genres. In most cases students will need to provide their own instrument. The students are encouraged to audition for the Arizona Regional Festival as well as solo and ensemble festival (participation is voluntary). This course is performance-based; participation in all on-campus performances is mandatory, and performances are included in the grading rubric.

Grade levels: 9-12 (grades 7 and 8 by audition)

Course type: Performance/production based elective course

Course number: 98

Prerequisite: Two years band experience or private study AND recommendation and approval of the band teacher

Choir 3A/Choir 3B

Emphasis in Choir 3 is on the performance of high-quality music, training in the skills of choral singing, solo singing, music theory and literacy, and ear and sight-reading skills. The course is performance-based; participation in both on-campus and off-campus performances is required and included in the grading rubric. Music ranges from sacred to secular, from Renaissance to Broadway, including pieces sung in languages other than English. Eighth grade singers are encouraged to audition for the state choir festival, and singers in grades 9-12 are encouraged to audition for the Arizona Regional Choral Festival, and the choir will most likely participate in at least one other choral festival. Choir 3 will perform pieces on their own and pieces with Choir 1 and Choir 2 (singers in grades 5-8). Some after-school and/or weekend commitments (performances) are required; details to be determined at a later date. Choir 3A and 3B are individual one-semester courses; students may take one or both.

Grade levels: 8-12

Course type: Performance/production based elective course

Course numbers: Choir 3A - 265/Choir 3B - 266

Course offered: First semester/Second semester elective

Required: Some after-school and weekend commitments

Beginning Piano

Beginning Piano is designed for students in grades 6-12 with little to no piano and/or music experience. Time will be split between developing musicianship: the rudiments of music construction, proper technique for playing the piano, the ability to perform alone and with others, and proper practice techniques and discipline. Students will work on musicianship skills through in class activities and online music theory resources. A commitment to consistent practice either at school or at home and performances in class and at music concerts are required.

By the end of the year students should be proficient in: understanding of fundamental music theory concepts, performing scales with both hands simultaneously at an appropriate tempo, playing with rhythmic accuracy, developing Independence of hands and fingers, performing by themselves and with other students, learning a new piece of music on their own.

Grade levels: 6-12

Course type: Performance/production based elective course

Course number: 267

Required: Some after-school and weekend commitments

Course note: Having an appropriate piano (digital or acoustic) at home to practice is crucial for success in completing this course. The instructor can assist families in finding an instrument for purchase or rent.

Intermediate Piano

Intermediate Piano is designed for students who have had previous piano and/or music experience. The ideal candidate for this class should: be able to identify all notes on the treble and bass clefs, be familiar with playing scales and some arpeggios, have an appropriate level of rhythmic accuracy, have an appropriate knowledge of rudimentary musicianship terms and concepts. Students in Intermediate Piano will cover intermediate level musicianship and piano literature. Commitment to a disciplined practice routine and performances in class and in music concerts are required. Intermediate level skills and concepts include (but are not limited to): all major scales, introduction to minor scales and jazz scales; all chords (major, minor, diminished, and seventh chords). Students will perform on their own and with other students in class at evening concerts throughout the school year. Opportunities for performances outside of school may also be available.

Grade levels: 6-12

Course type: Performance/production based elective course

Course number: 268

Prerequisite: Permission of the instructor as determined through a short audition/interview process.

Required: Some after-school and weekend commitments

Course note: Having an appropriate piano (digital or acoustic) at home to practice is crucial for success in completing this course. The instructor can assist families in finding an instrument for purchase or rent.

Beginning Guitar

Open to all middle and upper school students, this course is intended as an introduction to the acoustic classical guitar, with an emphasis on the basic techniques required to play simple tunes and strum common chords. The course will also introduce common music notation and standard music theory, including rhythm concepts, music reading, tuning and performance of simple tunes and songs. Live solo and group performances are a part of the class expectations and grading rubric. No previous musical experience is required, and instruments for the class will be provided.

Grade levels: 6-12

Course type: Performance/production based elective course

Course number: 76

Required: Some after-school and weekend commitments

Intermediate Guitar

Open to middle and upper school students, this course will build and develop classical acoustic guitar skills and concepts introduced in the beginning course. There will be emphasis on performing in mixed groups using contemporary performance techniques, standard music notation and a broad range of music styles common to the guitar. Live solo and group performances are a part of the class expectations and grading rubric.

Grade levels: 6-12

Course type: Performance/production based elective course

Course number: 77

Prerequisite: Beginning Guitar or permission of the instructor as determined through a short audition process

Required: Some after-school and weekend commitments

Advanced Guitar

This course will build and develop classical acoustic guitar skills and concepts introduced in the intermediate course. There will be an emphasis on performing in groups using contemporary performance techniques, standard music notation and a broad range of music styles common to the guitar. Advanced classical guitar ensemble repertoire will be explored, along with solo playing. This course is performance-based, so live solo and group performances are a part of the class expectation and grading rubric. Instruments for the class will be provided.

Grade levels: 6-12

Course type: Performance/production based elective course

Course number: 689

Prerequisite: Intermediate Guitar and Audition, or permission of the instructor as determined through a short audition process

Required: Some after-school and weekend commitments

Advanced Music Theory, History and Composition

This yearlong course is designed for the student to learn skills of music theory and beginning composition, in addition to aural skills, dictation, and sight singing, through a historical context. Students learn the basics of music notation and score analysis along with knowledge of basic tonal harmony in the eighteenth century common practice period style. The ultimate goal of the course is to develop a student's ability to recognize, understand, analyze, and describe the aspects and processes of music that is heard or seen on a score. Students engage in a variety of written, vocal, and composition exercises which highlight the many aspects of musical composition and analysis. The focus is on learning the foundational principles of music theory that lead to aptitude in analysis and beginning composition. Students can elect to take the AP Music Theory exam in May.

Grade levels: 9-12

Course type: Academic elective course

Course number: 695

Recommended: Student ability to read music and/or play an instrument.

Studio Art 1A/Studio Art 1B

Beginning Art 1A and 1B are individual one-semester courses; students may take one or both. The entire year develops visual literacy, creative thinking and an individual approach to concepts presented. During the first-semester course, students learn and apply the elements and principles of art and design using a variety of two-dimensional media techniques. Drawing and design skills and techniques are emphasized. During the second semester, students may also apply elements and principles to three-dimensional compositions. Sculptural media such as wood, wire, foam core, found objects, papier mache, and polymer clay may be used to create original sculptures of various dimensions. Work for both semesters is assessed on demonstration of concept understanding, creativity, composition, craftsmanship, and communication skills.

Grade levels: 9-12

Course type: Performance/production based elective course

Course numbers: Studio Art 1A - 120/Studio Art 1B - 121

Course offered: First semester/Second semester elective

Studio Art 2

Art 2 continues to advance skills in observation, imagination, and memory. Students also expand and advance techniques and skills introduced in Level 1 Studio Art. Students continue to be assessed based on the criteria of concept understanding, creativity, composition, craftsmanship, and communication. In this course, students are expected to demonstrate a more individual and sophisticated connection to their artwork.

Grade levels: 10-12

Course type: Performance/production based elective course

Course number: 123

Prerequisite: Studio Art 1A or 1B

Studio Art 3

This course is designed for serious art students who are interested in developing a portfolio for college or personal exploration. Students continue to advance in sophisticated use of media and concepts, individual project proposals, thoughtful critique, and careful reflection. Students at this level may qualify for the National Art Honor Society.

Grade levels: 11-12

Course type: Performance/production based elective course

Course number: 126

Prerequisite: Studio Art 2

Advanced Studio Art

The Advanced Studio Art course is intended for highly motivated students interested in the serious study of art. Course emphasis is placed on the quality, concentration, and breadth of work and the development of a college level portfolio. Students at this level may qualify for the National Art Honor Society.

Grade level: 12

Course type: Performance/production based elective course

Course number: 75

Prerequisite: Three years of visual arts course work (studio art and/or photography)

Fiber and Textile Arts

In this one-semester course, students will understand the differences and similarities between the fiber and textile arts and will design and create a variety of sustainable works in these areas.

Projects will include choices in upcycled wearable art, weavings, printed textiles, jewelry, and a variety of choice utilitarian textile pieces. Students will explore the rich and significant history of fiber and textile arts and deepen their understanding of the importance of creation, not just consumption. Students will demonstrate the critical thinking

skills needed for sewing, applique, embroidery, weaving, fabric painting and printing along with innovative thinking to use these to design objects unique in aesthetics and function.

Grade levels: 9 -12

Course type: Performance/production based elective course

Course number: 691

Course offered: Second semester elective

Art History

This course welcomes students into the world of art history through virtual visits to art installations all over the world. Students will observe, read and write about art, artists and art making. Content is informed by the AP Art History curriculum of 250 works of art characterized by diverse artistic traditions from prehistory to the present day. Students will develop in-depth understanding of art making from a global perspective and will learn how to apply visual skills to contextualize, analyse and engage with a variety of art forms to understand interconnections across time. Moving into contemporary art we'll unravel the mysteries of why artists create, often challenging societal norms, and how art can assist in counterculture movements that drive us toward a deeper understanding of ourselves.

Grade levels: 10-12

Course type: Academic elective course

Course number: 101

Photography 1

Students learn how to shoot and produce strong, aesthetic photographs in the medium of digital photography. They use Lightroom as the main means of editing. Topics covered: how to manually use a 35mm DSLR (digital) camera; how to use Adobe Lightroom; how to produce both technical and artistic photographs; and how to critique their work and the work of their peers. Students are graded on their photographs, technical exercises, and class participation. Students will be expected to participate in two shows that will require them to produce finished works of art. There will be out of pocket expenses to produce the finished work for our shows.

Grade levels: 9-12

Course type: Performance/production based elective course

Course number: 93

Required: 35mm DSLR camera, at least six megapixels

Photography 2

This course is designed to teach students to apply all they have learned in the beginning level course to their own personal, artistic works. We will be working on developing each student's vision and style. Projects are designed to stimulate creative thought and strategic planning. This course is based more heavily on post production work, and photoshop skills. A subscription to the Adobe software (Photoshop and Lightroom) is highly recommended. Students will be expected to participate in two shows that will require them to produce finished works of art. There will be out of pocket expenses to produce the finished work for our shows.

Grade levels: 10-12

Course type: Performance/production based elective course

Course number: 94

Course offered: Full year

Prerequisite: A- (90%) or better in Photography 1

Required: 35mm DSLR camera, at least six megapixels

Photography 3

This course is designed to teach students to apply all they have learned in the beginning and intermediate level courses to their own personal, artistic works. We will also be introducing traditional film and work on a number of projects that combine digital and traditional printmaking. The photo department has vintage cameras to lend students if they do not have their own. It is the student's responsibility to keep up with and manage their work time wisely during this course. Students will be working independently, with much of the work being done outside of class time. Students will be expected to participate in two shows that will require them to produce finished works of art. There will be out of pocket expenses to produce the finished work for our shows. Students will also be required to buy their own film and photo paper. The apx cost of these items is about \$75.

Grade levels: 11-12

Course type: Performance/production based elective course

Course number: 95

Course offered: First semester or full year during Zero Hour Day 2

Prerequisite: A- (90%) or better in Photography 2

Required: 35mm DSLR camera, at least six megapixels. A subscription to the Adobe software Photoshop and Lightroom. Traditional film and photographic paper.

Digital Design 1

Students will create digital images using basic photoshopping techniques by building and painting directly on the computer. They will develop design knowledge through balance, emphasis, texture, color theory and mixing. Students will gain an understanding of various digital formats for both print and web use and study various historical art movements related to their projects. Along with Photoshop, a variety of applications will be used to create various designs and images like Tinkercad, Fontstruct, and Google Drawings. This course is offered to students in grades 7 - 12.

Grade levels: 7-12

Course type: Performance/production based elective course

Course number: 60

Digital Design 2

Digital Design 2 will be a continuation and building of more PhotoShop skills and tools, especially to build atmosphere and depth digitally through color contrast and size. In this class, students will discover a new means of drawing digitally through vector imaging and the bezier pen tool to create logos and their own typography. Students will also be challenged to work creatively by using traditional art making methods and turning them in to digital images and vice versa.

Grade levels: 8-12

Course type: Performance/production based elective course

Course number: 61

Prerequisite: Beginning Digital Design, Digital Design 1 or approval from instructor based on portfolio

Beginning Digital Painting and Illustration

This course will use Photoshop and other digital software as a means of creating visual art and illustration. Learn the techniques and steps to visually illustrate your own stories and ideas from storyboard to character development to graphic novel. First semester we will begin to build the foundations for illustration and in the second semester you will take those foundations to create a product of your own, whether it's a storybook or graphic novel. Various elements and principles of art will be learned and applied to illustrations to give the illustrations a stronger visual impact.

Grade levels: 8-12

Course type: Performance/production based elective course

Course number: 55

Prerequisite: Digital Design 1 or higher or approval from instructor

Intermediate Digital Painting

This course will be a continuation in the use of Photoshop and other digital software as a means of creating visual art and illustration. Course will reinforce skills like building textures, the creation of deep space, and use of shading to create forms while pushing ideas and stories forward. More projects will be student driven, where the students create the parameters for their own projects. Students will also learn about editorial illustration and how to bring in their opinions into contemporary issues.

Grade levels: 9-12

Course type: Performance/production based elective course

Course number: 56

Prerequisite: Beginning Digital Painting and Illustration or approval with a portfolio submission demonstrating either traditional or digital drawing or painting abilities

Dance 1

The purpose of this course is to promote a balanced dance program that enables students to develop an appreciation of the use of the body as a means of communication and expression. Students will receive instruction in basic dance techniques and choreographic principles as they engage in movement activities designed to develop an understanding of the elements of dance, develop balance, coordination, flexibility, strength and endurance.

Grade levels: 7-12

Course type: Performance/production based elective course; can be used for fine arts credit or PE graduation requirement

Course number: 617

Dance 2

The purpose of this course is to promote a balanced dance program that enables students to develop an appreciation of and skill in the use of the body as a means of communication and expression. Students will receive instruction in both dance techniques and choreographic principles that builds on skills developed in Dance 1. They will engage in dance activities designed to increase movement skills (balance, coordination, agility, flexibility, strength and endurance); develop their ability to effectively utilize the elements of dance in performance and the choreographic process; and develop their expressive performance skills. There will be performance opportunities.

Grade levels: 8-12

Course type: Performance/production based elective course; can be used for fine arts credit or PE graduation requirement

Course number: 618

Prerequisite: Dance 1 or approval from instructor

Choreography Lab

This course is designed for intermediate/advanced dance students who love to choreograph, create and design dance. This course will focus on refining technical proficiency, artistic expression and creative fluency. Students will engage in the processes of creation, rehearsal, and performance of original student dance choreography; ensemble skills; repertoire maintenance, and performance disciplines. A variety of opportunities will be provided for performances of completed works.

The student will be able to:

- Compose original dance works for performance applying each step of the choreographic process.
- Analyze, critique and discuss choreography in an intelligent, productive manner.
- Learn, recall with accuracy and expressively perform original choreography and the choreography of peers and others.
- Collaborate with others in creating and performing dance works.
- Work creatively and efficiently under deadlines.
- Manage rehearsals effectively.
- Recall choreography and perform it with confidence and accuracy.
- Effectively use technical theatre elements: costumes, make-up, set design, and props.

Grade levels: 8-12

Course type: Performance/production based elective course; can be used for fine arts credit or PE graduation requirement

Course number: 619

Prerequisite: Audition or approval from instructor

Stagecraft A/Stagecraft B

Stagecraft A and B are individual one-semester courses; students may take one or both. Stagecraft A is an introductory course focused on backstage work for a straight show or non-musical production, while Stagecraft B focuses on a musical production. Students learn theater terminology, safety rules, and procedures for building sets and working behind the scenes. Each student becomes a vital crewmember required to attend specified rehearsals and performances for one Gregory School mainstage show and an additional theatrical event.

Grade levels: 9-12

Course type: Performance/production based elective course

Course numbers: Stagecraft A - 167/Stagecraft B - 169

Course offered: First semester/Second semester elective

Required: Some after-school and weekend commitments

Theater Production 1 and Theater Production 2

These one-year courses are designed for students who know the basics of stagecraft and can further implement their knowledge. Students expand their experience in technical theater and are required to be involved in the planning and execution of theatrical productions. Each student becomes a vital crewmember, required to attend specified rehearsals and performances for two Gregory School mainstage shows and additional theatrical events.

Theater Production 1

Grade levels: 10-12

Course type: Performance/production based elective course

Course number: 170

Prerequisite: Stagecraft A or B

Required: Some after-school and weekend commitments

Theater Production 2

Grade levels: 11-12

Course type: Performance/production based elective course

Course number: 171

Prerequisite: Theater Production 1

Required: Some after-school and weekend commitments

Theater Design

Theater Design is an advanced course in backstage work with emphasis on technical theater design. Students design the publicity, scenery, props, lighting, and sound for all of The Gregory School shows. Each student becomes a vital

crewmember, required to attend specified rehearsals and performances for all Gregory School mainstage shows and additional theatrical events. Students may be asked to perform special duties for non-theatrical events and/or outside groups renting the theater space.

Grade levels: 11-12

Course type: Performance/production based elective course

Course number: 172

Prerequisite: Passing grade in one or two years of Theater Production or with instructor approval

Required: Some after-school and weekend commitments

Beginning Drama A/Beginning Drama B

Beginning Drama A and B are individual one-semester courses; students take one or both. Both sections provide an introduction to the basics of theatrical performance. Students explore acting skills, vocal and physical strategies, scene work, improvisation, character development, ensemble work, and theater games. Assignments include daily class activities, textual analysis, playwriting, and review of professional, individual, partner, and group performances. Students participate in acting festivals, performances for the school community, and playwriting competition.

Grade levels: 9-12

Course type: Performance/production based elective course

Course numbers: Beginning Drama A - 156/Beginning Drama B - 157

Course offered: First semester/Second semester elective

Required: Some after-school and weekend commitments

Intermediate Drama 1 and Intermediate Drama 2

These one-year courses are continuations of the performance skills developed in Beginning Drama. Students advance their study of playwrights, texts, acting styles, and characterization. Assignments include reading, viewing, and analyzing plays for scene study and performance. Skills covered in class include textual analysis for characterization, recognition of dramatic and historical styles, and the preliminary techniques of directing. Students participate in acting festivals, performances for the school community, and playwriting competition.

Intermediate Drama 1

Grade levels: 10-12

Course type: Performance/production based elective course

Course number: 158

Prerequisite: Beginning Drama A or B

Required: Some after-school and weekend commitments

Intermediate Drama 2

Grade levels: 11-12

Course type: Performance/production based elective course

Course number: 159

Prerequisite: Intermediate Drama 1

Required: Some after-school and weekend commitments

Advanced Drama

This one-year course is a collaborative effort toward demonstrating all of the acting, directing, and producing skills students have learned in Beginning and Intermediate Drama in order to create public performances. Assignments include reading, viewing, and analyzing plays and the exploration of various directing styles. Skills covered in class include the in-depth study of directing, textual analysis, and production concept creation, sophisticated work with different dramatic styles, and historical and cultural dramaturgy. Students participate in acting festivals, performances for the school community, and playwriting competition.

Grade levels: 11-12

Course type: Performance/production based elective course

Course number: 160

Prerequisite: Intermediate Drama 2 or with instructor's approval

Required: Some after-school and weekend commitments

After-School Musical/Drama Productions: These productions are after-school and on weekends. Interested students become part of an ensemble producing a dramatic stage presentation. Material is taken from a wide range of dramatic and musical literature. Singing and dancing may be required. Participation for acting, singing and dancing is by audition. (No course credit awarded.)

LANGUAGES

Native speakers of Spanish or French may take advanced courses in their native languages. They will take a test to be placed in the appropriate class. They could also take one of the languages that is new to them.

French 1

This course assumes little or no prior instruction in French. Emphasis is on reading, writing, listening and speaking. Students will learn familiar and concrete vocabulary along with phrases that are useful in everyday life or that they would use if they were to travel to a French speaking country. We will learn about Francophone culture and French-speaking countries. We use primarily the present tense.

Grade levels: 8-12

Course type: Academic course required for graduation

Course number: 221

Prerequisite: Eighth and ninth grade students who have taken French 1A and French 1B in middle school will be placed in French 1 or French 2 by department

French 2

Students further develop conversational skills through study of concrete vocabulary and idiomatic expressions. They study the culture, geography and daily life of various Francophone regions. Writing assignments are more varied than those of French 1. We use storytelling to illustrate uses of the past tense, and students write and illustrate an original fairy tale, which they then read to an audience. We do a thorough review of present tense before working on passé composé and imparfait.

Grade levels: 8-12

Course type: Academic course required for graduation

Course number: 222

Prerequisite: Eighth graders and upper school students with a C (73%) or better in French 1 will be placed in French 2 by department. Students who have completed French 1A and French 1B in middle school will be placed in French 1 or French 2 as determined by department

French 3

By third year French, a student is able to maintain a conversation about a wide variety of topics. More emphasis is given to reading and writing than in the past two years. Vocabulary and composition topics are varied. Students examine the culture, literature, and music of French-speaking Europe, Africa, Polynesia, North America, and the Caribbean. They read short selections from the French-speaking world. Tenses/moods covered: conditional, future, and subjunctive. As a final assessment, students give a presentation and do a discussion with French speakers from the community.

Grade levels: 9-12 (or eighth graders who are native speakers or have done an immersion program)

Course type: Academic course required for graduation

Course number: 223

Prerequisite: C (73%) or better in French 2

AP French Language and Culture

This course is designed for students who want to further develop their language skills and would consider taking the AP exam. Students build vocabulary, thoroughly review grammar, and study a variety of cultural themes. Students read short stories, poems, and other readings, and write compositions on a variety of topics. They read the novel *Candide* by Voltaire. Students occasionally watch movies, listen to podcasts, and they write frequently in journals. An extra "lab" period once a week is required for those who intend on taking the AP test. Students are encouraged, but not required, to take the AP exam in May.

Grade levels: 9-12

Course type: Academic elective course

Course number: 224

Prerequisite: B+ (87%) or better in French 3

Francophone Identities (Franco ID)

The goal of this class is to continue developing the skills of reading, writing, listening, and speaking French in the context of various cultural issues in the Francophone world. We will address the issues of identity: How does our identity form and how does it evolve over time? What factors influence acceptance or exclusion from a group? How does one identify with a group, but retain individuality? We will also review grammar and practice conversational skills. We will read short stories, poems, essays, documentaries, and excerpts from novels and we will watch a number of films, such as *Un Sac de billes* and *Le Huitième jour*.

Grade levels: 9-12

Course type: Academic elective course

Prerequisite: 3 years or more of French; B (83%) or better in the previous French class

French for Immersion Students

The course is designed for students who are native speakers of French or who have spent at least four years in an immersion program and have reached an intermediate or high level of proficiency in French. We will continue to develop reading, writing, listening, grammar, and speaking skills, with emphasis on storytelling and the two past tenses. Students also study geography, develop vocabulary, and discuss cultural topics in the French-speaking world. Upon successful completion, and if the student continues to study French in upper school, they will be given one upper school credit for the course per year. New students with an immersion background will take a placement test for this class.

Grade levels: 5-10

Course type: Academic elective course

Course number: 262

Prerequisite: An intermediate or high level of French, as determined by a placement test

Latin 1

The Latin program offers a comprehensive foundation in the language from the introduction of basic vocabulary and grammar through the study of grammatical syntax and literature. Our course is based on the universal stories of Ovid. Reading comprehension, translation, and Latin prose composition are emphasized in the latter part of the course. Readings from ancient authors and modern retellings focus on classical culture, history, and mythology.

Grade levels: 8-12

Course type: Academic course required for graduation

Course number: 201

Prerequisite: Students who have taken Latin 1A and Latin 1B in middle school will be placed in Latin 1 or Latin 2 by department

Latin 2

This course continues the study of grammar, syntax, and vocabulary, and makes the transition from fabricated Latin to the original language. In the second semester students practice their new ability to read excerpts of the original works of Ovid's Metamorphoses and Fasti.

Grade levels: 8-10

Course type: Academic course required for graduation

Course number: 202

Prerequisite: B (83%) or better in Latin 1 **OR** students who have taken Latin 1A and Latin 1B in middle school will be placed in Latin 1 or Latin 2 by department

Latin 3

Using many different Latin authors in various genres, this course emphasizes reading skills. In a prominent position are the orations of Cicero and the histories of Caesar. To complement the foundation are the letters of Cicero, epigrams of Martial, philosophy of Lucretius, history of Livy, and elegies of Propertius and Tibullus, et al. This course is a wonderful examination of Roman culture through great literature.

Grade levels: 10-11

Course type: Academic course required for graduation

Course number: 203

Prerequisite: B (83%) or better in Latin 2

Latin 4

Latin 4 is for those students who choose to continue on in Latin after finishing their language requirements. The course is designed to prepare students to be successful in Advanced Placement Latin through a thorough review of grammar, extensive practice in writing text-based critical essays and exposing students to a wide range of original works in both prose and poetry. In the first semester students translate and analyze prose works from Cornelius Nepos, Livy, Cicero and Julius Caesar. In the second semester students translate and analyze poetry from Catullus, Ovid, Martial and the early works of Vergil.

Grade levels: 11-12

Course type: Academic elective course

Course number: 199

Prerequisite: B (83%) or better in Latin 3

AP Latin

AP Latin is a college level course designed for students who may take the AP exam. Students will read from Caesar's De Bello Gallico, Commentaries on the Gallic Wars, and from Vergil's Aeneid, the epic poem about the founding of Rome. Students will expand their vocabularies, improve their sight reading skills, explore dactylic hexameter and poetic

devices, write essays using the texts as their empirical evidence, and learn about the military, cultural and political themes of first century Rome.

Grade levels: 11-12

Course type: Academic elective course

Course number: 205

Prerequisite: B (83%) or better in Latin 4

Mandarin 1A

Mandarin 1A is an introductory course in Chinese. Students will learn basic pronunciation and tones. Emphasis is primarily on speaking and listening, reading and writing followed. Students will learn and explore the writing system and pinyin system, known as Chinese Romanization. Students will learn concrete vocabulary along with phrases that are useful in everyday life. By the completion of the first year, students should be able to: introduce oneself, others, and family members, to describe someone, to ask someone's age and birthday, to tell time, dates, months, explain daily routines, to express likes and dislikes, to talk about colors, clothing, etc. Students should also be able to identify about 100 characters, read simple Chinese texts, and write basic notes by the completion of the first year. Students will also be able to demonstrate basic knowledge and culture of the Chinese-speaking countries and regions.

Grade levels: 6-12

Course type: Academic elective course

Course number: 271

Please note that TGS students who have completed previous Mandarin classes will be placed in Mandarin 1B, Mandarin 2, or Mandarin 3 as determined by department.

Mandarin 1B

Emphasis will continue on pronunciation and on building vocabulary. We will continue to develop skills of listening and speaking, reading, writing and typing. Emphasis will be on communication about daily life such as describing people, expressing likes and dislikes, shopping, talking about hobbies, colors, body parts and so on. There will be mahjong games, Chinese chess, calligraphy writing, dumplings making and other activities. Local field trips will be organized for students to have substantial comprehensive practice in the language and a deeper understanding of the Chinese culture.

Grade levels: 6-12

Course type: Academic elective course

Course number: 272

Prerequisite: Level determined by placement exam or teacher recommendation

Course offered: Elective during zero hour

Mandarin 2

The emphasis in this course continues on pronunciation, tones, and on building vocabulary. Focuses will be on reading comprehension, translation, ancient poems and storytelling. Students further develop conversation and writing skills through study of culture, songs, and Internet resources, Vlogger, YouTube videos. There will be games: Chinese go, mahjong, Chinese chess, YoGo; calligraphy writing, dumplings making and other activities. Local field trips will be organized for students to have substantial comprehensive practice in the language and a deeper understanding of the Chinese culture.

Grade levels: 6-12

Course type: Academic elective course

Course number: 273

Prerequisite: Level determined by placement exam or teacher recommendation

Mandarin 3

This course is an elective course designed for students who want to further their study of Mandarin Chinese. Students will be continuing to further develop conversational skills and presentational skills both in oral and written through study of the culture, geography, tours, history, food, festivals, regional dialects and idiomatic expressions in Chinese people's daily life, comparisons of cultural differences and similarities. Field trips or global tours will be organized for students to have substantial comprehensive practice in the language and a deeper understanding of the Chinese culture.

Grade levels: 6-12

Course type: Academic elective course

Course number: 274

Prerequisite: Level determined by placement exam or teacher recommendation

Spanish 1

Spanish 1 is an introductory course primarily in Spanish, which assumes no prior knowledge of the language. Emphasis is on developing the student's ability to use the language for basic communicative competence by developing the four skills: listening, speaking, reading and writing. Culture is introduced through the videos and readings. The emphasis in the classroom is the use of oral Spanish. By the completion of the first year, students are able to introduce one friend to another, describe likes and dislikes, shop for food and clothing, order a meal in a restaurant, talk about daily routines, weekend activities, classes, family, health, and holidays. Students are able to speak, read, and write in the present, past, and future.

Grade levels: 8-9

Course type: Academic course required for graduation

Course number: 211

Prerequisite: Students who have taken Spanish 1A and Spanish 1B in middle school will be placed in Spanish 1 or Spanish 2 by department

Spanish 2

Spanish 2 continues the four-skill approach begun in Spanish 1 through the continued use of the direct method and develops the student's ability to begin to express abstract concepts such as desires, doubts, and possibilities, through the use of the subjunctive mood. Emphasis is also on commands, the contrast of the two past tenses (the preterit and the imperfect), and the future tense. Cultural content is enhanced through the use of video material and short readings. Students at this stage are writing short compositions in Spanish on a variety of cultural and personal topics.

Grade levels: 8-12

Course type: Academic course required for graduation

Course number: 212

Prerequisite: C (73%) or better in upper school Spanish 1 **OR** students who have taken Spanish 1A and Spanish 1B in middle school will be placed in Spanish 1 or Spanish 2 by department

Spanish 3

In Spanish 3, students are exposed to advanced vocabulary relevant to their lives and what is happening in the world around them. The major grammatical concepts covered are the preterit/imperfect, the subjunctive, the compound tenses and commands. Students continue to develop their knowledge of vocabulary and idiomatic expressions so that they can discuss, in Spanish, complex topics suggested by films, readings in literature and cultural presentations. Compositions become longer and are more varied in content.

Grade levels: 9-12

Course type: Academic course required for graduation

Course number: 213

Prerequisite: C (73%) or better in Spanish 2

Spanish 4

Spanish 4 is an elective course designed for students who want to continue the study of Spanish beyond the requirement for foreign language in the Upper School. A major emphasis is on culture, real-world events, and analysis of literary excerpts and short films. Students continue to master the spoken and written aspects of Spanish through discussions and diverse oral exercises, as well as compositions and theme writing. The course includes a complete, in-depth review of grammar presented to date, as well as a focus on the finer nuances of the language. The course is also designed as a preparation for taking AP Spanish Language and Culture course.

Grade levels: 10-12

Course type: Academic elective course

Course number: 214

Prerequisite: C (73%) or better in Spanish 3

AP Spanish Language and Culture

Advanced Placement Spanish Language and Culture is an elective course designed to prepare students for more advanced Spanish language studies at the university level, as well as for the AP Spanish Language and Culture Exam. The course is structured to cover the six thematic areas as presented on the AP Exam: Global Challenges, Science and Technology, Contemporary Life, Personal and Public Identities, Family and Communities, Beauty and Aesthetics. Students continue to master the spoken and written aspects of Spanish through discussions and diverse oral exercises, as well as compositions and theme writing. The course includes a detailed review of all grammar presented to date, as well as a general introduction to Spanish and Latin American literature.

Grade levels: 10-12

Course type: Academic elective course

Course number: 215

Prerequisite: B+ (87%) or better in Spanish 4 or with instructor's recommendation

AP Spanish Literature and Culture

Advanced Placement Spanish Literature and Culture is designed for students with a high level of proficiency in the Spanish language. Grammar is reviewed as needed. The course introduces students to the formal study of a representative body of texts from Peninsular Spanish, Latin American, and U.S. Hispanic literature. The overarching aims of the course are to provide students with ongoing and varied opportunities to further develop their proficiencies across the full range of language skills – with special attention to critical reading and analytical writing – and to encourage them to reflect on the many voices and cultures included in a rich and diverse body of literature written in Spanish.

Grade levels: 11-12

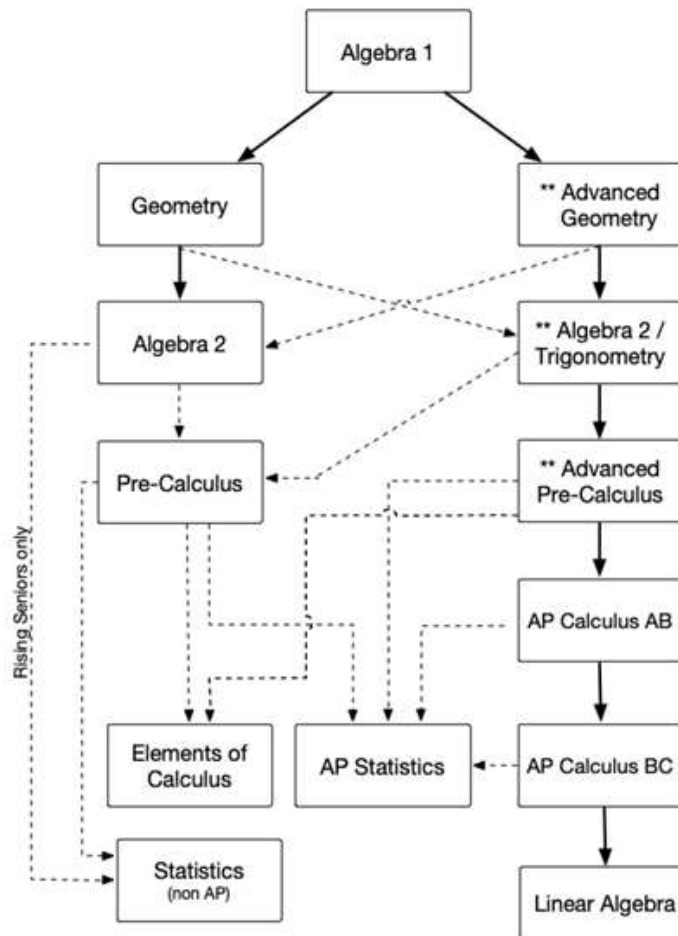
Course type: Academic elective course

Course number: 216

Prerequisite: B+ (87%) or better in AP Spanish Language

MATHEMATICS

In each mathematics course, emphasis is placed on four essential skills: problem-solving, reasoning and proof, communication, and connections. As students acquire more skills, they use them to solve increasingly complex problems from a variety of disciplines. Students generally have assignments due every class. Whenever possible, time is taken for exploratory problem-solving, in which students look for patterns, vary approaches, use concepts previously learned, apply new ideas to solve a problem, and finally write up and present their solutions.



**** See course description for placement criteria.**

Algebra 1

Algebra 1 is the freshman level Algebra course. It is a full year course taught over the two semesters of the academic school year. Algebra 1 is a foundational course that teaches students how to extend their knowledge of mathematics from the concrete to the abstract. Students learn how to generalize operations with numbers and variables in order to approach more dynamic problem solving scenarios.

The course begins with an in depth review of topics in: number systems, theory of equations and algebraic application of geometric principles. The new topics in semester one include: solving and modeling with linear equations, studying

the graphs of degree 1, 2 and 3 polynomials, the absolute value function and the square root function and their properties under transformations using the graphing calculator as a primary tool.

The second semester of the course focuses more on non-linear forms including: solving systems of linear equations, linear inequalities and their applications, factoring and its applications, and quadratic and cubic functions and their applications. Problem solving and application of each topic is an integral part of the course.

Mathematical Practices are emphasized throughout the course. Process standards include problem-solving, reasoning and proof, communication, representation and connections. Additionally, mathematical fluency of expression is modeled by teaching adaptive reasoning, strategic competence, command of linguistic expression using mathematical symbols and models.

Grade level: 9

Course type: Academic course required for graduation

Course number: 421

Prerequisite: Successful completion of Pre-Algebra

Geometry

Geometry is a full year course taught over the two semesters of the academic school year. The course is concerned with describing the size, shape and properties of figures in the plane and in space under transformations. It is used as a vehicle to develop students' logical reasoning abilities and to further develop fundamental mathematical ways of thinking. Students engage in activities that extend their learning and allow them to explore geometric concepts in greater depth via in-class experiments and projects.

The course begins with exploring relationships and patterns in geometric shapes and the world around us. Students will then explore topics in: constructions using traditional tools as well as geometry software, numerical and spatial invariants, reasoning and proof, congruence, similarity, measurement, polygons and circles on the coordinate plane as well as three-dimensional figures, and right-triangle trigonometry.

Grade levels: 9-10

Course type: Academic course required for graduation

Course number: 423

Prerequisite: Successful completion of Algebra 1

Advanced Geometry

Advanced Geometry is a full year course taught over the two semesters of the academic school year. This is an accelerated course that will emphasize deductive and inductive reasoning to develop the notion of geometric proof. Students will engage in a variety of activities that extend their learning and allow them to explore geometric concepts in depth and with rigor via in-class experiments and projects. The course begins with exploring relationships and patterns in geometric shapes in the world around us. Students will then explore topics in: constructions using traditional tools as well as geometry software, numerical and spatial invariants, reasoning and proof, congruence, similarity, measurement, polygons and circles on the coordinate plane as well as three-dimensional figures, and right-triangle trigonometry.

Grade levels: 7-10

Course type: Academic course required for graduation

Course number: 419

**Prerequisite: B (85%) or better in both semesters of Algebra (1 or B) and teacher recommendation

Algebra 2

Algebra 2 is a full year course taught over the two semesters of the academic school year. The course is concerned with a variety of functions; linear, quadratic, rational, radical, higher order polynomials and exponential. We examine functions as they relate to modeling real world applications, graphing and solving equations and inequalities, while employing the entirety of the complex number system (rational, irrational, and non-real numbers).

Grade levels: 9-11

Course type: Academic course required for graduation

Course number: 425

Prerequisite: Successful completion of both Algebra 1 and Geometry

Algebra 2/Trigonometry

Algebra 2/Trig is a full year course taught over the two semesters of the academic school year. This is an accelerated course that combines the topics in Algebra 2 with Trigonometry and its applications. Functions investigated will focus on higher order polynomials, rational, radical, exponential and logarithmic functions. We examine functions and their inverse functions as they relate to modeling real world applications, graphing and solving equations. We will be employing the entirety of the complex number system (rational, irrational, and non-real numbers) to solve problems

and to represent them geometrically. During the second semester, we will examine periodic functions by applying trigonometric principles. This course will include an applied Statistical Unit to prepare students for the SAT.

Grade levels: 9-11

Course type: Academic course required for graduation

Course number: 424

**Prerequisite: B+ (87%) or better in both semesters of Geometry, B (85%) or better in both semesters of Algebra 1, and teacher recommendation

Precalculus

This elective course is a full year course that will continue to solidify a student's Algebraic and Trigonometric skills through transformational Geometry. In this course we will focus on the properties and applications of functions by analyzing form. Units of instruction will extend previous learning by investigating domain and range as it relates to polynomial functions, rational functions, exponential and logarithmic functions, and trigonometric functions. Students will study Arithmetic and Geometric sequences and their applications. Units of instruction will include applications of combinatorics, binomial distribution systems and data displays/data analysis.

Grade levels: 10-12

Course type: Academic elective course

Course number: 428

Prerequisite: Successful completion of Algebra 2 or Algebra 2/Trig

Advanced Precalculus

This elective course is a full year course that will continue to solidify and expand a student's Algebraic and Trigonometric skills. The purpose of the course is to prepare students for AP Calculus AB. As such the course is more rigorous and in more depth than the regular PreCalculus course. The course will use algebraic, geometric and numeric approaches to solving problems. Topics include: linear, quadratic, polynomial, rational, exponential, logarithmic, and trigonometric functions; triangle trigonometry; trigonometric equations and identities, and applications; sequences and series, limits and continuity.

Grade levels: 10-12

Course type: Academic elective course

Course number: 430

Prerequisite: B+ (87%) or better in both semesters of Algebra 2/Trig and teacher recommendation

Elements of Calculus

This course will introduce students to the basic ideas of differential and integral calculus. Topics include: limits and continuity, derivatives and differentiation techniques, applications of derivatives, definite and indefinite integrals, the fundamental theorem of calculus, some techniques of integration, and applications of integrals.

Grade levels: 11-12

Course type: Academic elective course

Course number: 464

Prerequisite: Successful completion of Precalculus or Advanced Precalculus and teacher recommendation

Statistics

Statistics is the science of data analysis and inference. Through the lens of sports, this course will explore data, plan studies (observational and experimental), and generate statistical inferences based on data. Topics covered will include interpreting/displaying categorical and numerical data, probability, variation in data, normal distributions, z-scores, confidence intervals and linear regression. Computer software will be routinely used to analyze large data sets found on sports data websites. Students will conduct classroom experiments, and carry out individual and group projects.

Grade level: 12

Course type: Academic elective course

Course number: 439

Prerequisite: Successful completion of Algebra 2, Algebra 2/Trig, Precalculus, or Advanced Precalculus

AP Statistics

AP Statistics is the high school equivalent of a one-semester, introductory college statistics course. In this course, students develop strategies for collecting, organizing, analyzing, and drawing conclusions from data. Students design, administer, and tabulate results from surveys and experiments, and simulations aid students in constructing models for chance behavior. Topics covered include data organization and statistical data summaries, binomial, Chi-squared, normal and t-distributions; sampling distributions, probability, experimental design, confidence intervals, hypothesis testing and linear regression. Students use a TI-83/84 graphing calculator, Fathom, and JMP statistical software, and Web-based java applets to investigate statistical concepts. To develop effective statistical communication skills,

students are required to prepare frequent written and oral analyses of real data. AP Calculus students meet with the instructor for standard classes, and a zero hour lab once per week. Teacher recommendation required for placement.

Grade levels: 11-12

Course type: Academic elective course

Course number: 441

Prerequisite: Successful completion of Precalculus with teacher recommendation

Course note: Can be taken concurrently with either AP Calculus AB or AP Calculus BC with teacher recommendation

AP Calculus AB

This course prepares students to take the AB Advanced Placement Calculus exam, which covers roughly one and a half semesters of college calculus. Students are expected to take the AP exam in May. Topics include: limits and continuity, derivatives and differentiation techniques, applications of derivatives, definite and indefinite integrals, the fundamental theorem of calculus, some techniques of integration, and applications of integrals. Some time is spent during the last quarter preparing for the AP exam and, if time permits, independent projects are assigned to research and teach a mathematical concept new to the class. AP Calculus students meet with the instructor for standard classes, and a zero hour lab once per week. Teacher recommendation required for placement.

Grade levels: 11-12

Course type: Academic elective course

Course number: 433

Prerequisite: Successful completion of Advanced Precalculus and teacher recommendation

AP Calculus BC

This course prepares students to take the BC Advanced Placement exam, which covers roughly two semesters of college calculus. Students are expected to take the AP exam in May. In the course, all AB topics are reviewed and additional topics include: more integration techniques and applications, numerical solutions of differential equations using Euler's method, l'Hopital's Rule, improper integrals, sequences and series, convergence of infinite series, power series, function approximation using Taylor series, derivatives and integrals of parametric, vector, and polar functions. If time permits, additional advanced topics may be covered such as mathematical induction, binomial series, multivariable calculus, and fundamentals of analysis. Some time is spent during the last quarter preparing for the AP exam. AP Calculus students meet with the instructor for standard classes, and a zero hour lab once per week. Teacher recommendation required for placement.

Grade level: 12

Course type: Academic elective course

Course number: 435

Prerequisite: Successful completion of AP Calculus AB and teacher recommendation

PERSONAL DEVELOPMENT

The Farmyard Classroom - Interdisciplinary Studies of Real Life

In this zero hour class, students will deepen their responsibilities and learning with activities tailored to their individual interests and skill levels. The foundational tier of this class is the tending and care for our animals. Beyond care, this will be a building and design class: not only upkeeping doors and latches, but also creating chairs, swings, and a total environment where the aesthetics of the yard contribute to the health of the animals. To contribute to the total experience of the yard, students will study texts of anatomy, physiology, ecology, and behavior. When students link nutrition, behavior, play, leisure, sleep, arts, and the environment of the animals with their *own* needs in life, The Gregory School will find our students thinking of the whole of each and every life.

Grade levels: 5-12

Course type: Academic elective course

Course number: 659

Course offered: Elective during zero hour

Garden to Table

In this zero hour class, students will work together to turn our 6 community garden plots into a productive, food-producing farm. The produce harvested from our new school farm will go directly to the dining hall where everyone will enjoy the "fruits of our labors." Growing one's own food is an act of empowerment. When students learn to grow food, and contribute that food to our very own dining hall, this will build a grand sense of pride and accomplishment! We will build a strong connection between our community garden, our science greenhouse, and the dining hall. We will study the soil, the environment, water use, and will learn exactly how to grow nutrient rich produce in our desert climate. In addition to supplying our dining hall with leafy greens, sweet potatoes, and crisp peas, we will host quarterly farmer's markets where we will sell vegetable starts, fresh eggs from the farmyard, and any surplus vegetables from our gardens.

Grade levels: 5-12
Course type: Academic elective course
Course number: 664
Course offered: Elective during zero hour

Junior College Seminar

Juniors may elect to enroll in the Junior College Seminar which meets once per week. The seminar, led by the Director of College Counseling, helps prepare students who wish to get a head start on their college exploration and preparation for senior year applications. Weekly topics address all aspects related to the college process including exploring various colleges and universities, generating an educated list of colleges to consider, previewing college applications and essays, developing a resume, communicating with college admissions staffers, and reviewing standardized test options. Students can expect to finish this seminar with a sense of self-reflection, understanding of the process, and an action plan for the summer leading into senior year.

Grade level: 11
Course type: Non-credited, non-graded elective course
Course number: 735
Course offered: Second semester elective meeting once per week

Senior College Seminar

Every senior is automatically registered for this seminar-style course which provides instruction, dedicated assistance, and structured time focused on college applications. The course meets twice weekly with the goal of completing most college applications by the November and December deadlines. Students will work both independently and in small groups on college exploration, resume development, standardized testing plans, completing the Common Application and other school-specific applications, financial aid forms, essay writing, and scholarship research. Each senior works closely with the Director of College Counseling to develop polished applications and to nurture communications with college admissions offices.

Grade level: 12
Course type: Non-credited, non-graded required course
Course number: 724
Course offered: First semester elective meeting twice per week

PE EXEMPTION

A ninth grade student who has a consistent, significant commitment to one or more physical activities outside of school may be exempted from the P.E. requirement in order to 1) take six or more academic courses or 2) add a second elective to the required five academic courses and one other elective course. Student and parents must write and sign a letter requesting the exemption to be kept in student's file.

Physical Education

The goal of this year-long class is to promote lifetime physical fitness through an emphasis on individual and team sports. Students will show steady personal improvement in all activities throughout the year. The class will incorporate aerobic and anaerobic workouts, practice in proper stretching and strengthening techniques, skill development for various individual sports including bike riding, hiking, weight training, golf and more! There will be some team sports and play. Cooperative behavior and good sportsmanship are reinforced each class meeting. This course is graded on a pass/fail basis.

Grade levels: 9-12
Course type: Elective course; can be used for PE graduation requirement
Course number: 652

Yoga

This year-long class will help students to learn, explore, and enjoy an ancient practice backed by modern science with benefits beyond compare. Yoga instruction will offer personalized direction on proper alignment, technique, exertion, and modifications. This class will be a gathering place for those who seek to care for themselves in a welcoming, safe, comfortable, and supportive environment at all levels.

Grade levels: 9-12
Course type: Elective course; can be used for PE graduation requirement
Course number: 656

Dance 1

The purpose of this course is to promote a balanced dance program that enables students to develop an appreciation of the use of the body as a means of communication and expression. Students will receive instruction in basic dance techniques and choreographic principles as they engage in movement activities designed to develop an understanding of the elements of dance, develop balance, coordination, flexibility, strength and endurance.

Grade levels: 7-12

Course type: Performance/production based elective course; can be used for fine arts credit or PE graduation requirement

Course number: 617

Dance 2

The purpose of this course is to promote a balanced dance program that enables students to develop an appreciation of and skill in the use of the body as a means of communication and expression. Students will receive instruction in both dance techniques and choreographic principles that builds on skills developed in Dance 1. They will engage in dance activities designed to increase movement skills (balance, coordination, agility, flexibility, strength and endurance); develop their ability to effectively utilize the elements of dance in performance and the choreographic process; and develop their expressive performance skills. There will be performance opportunities.

Grade levels: 8-12

Course type: Performance/production based elective course; can be used for fine arts credit or PE graduation requirement

Course number: 618

Prerequisite: Dance 1 or approval from instructor

Choreography Lab

This course is designed for intermediate/advanced dance students who love to choreograph, create and design dance. This course will focus on refining technical proficiency, artistic expression and creative fluency. Students will engage in the processes of creation, rehearsal, and performance of original student dance choreography; ensemble skills; repertoire maintenance, and performance disciplines. A variety of opportunities will be provided for performances of completed works.

The student will be able to:

- Compose original dance works for performance applying each step of the choreographic process.
- Analyze, critique and discuss choreography in an intelligent, productive manner.
- Learn, recall with accuracy and expressively perform original choreography and the choreography of peers and others.
- Collaborate with others in creating and performing dance works.
- Work creatively and efficiently under deadlines.
- Manage rehearsals effectively.
- Recall choreography and perform it with confidence and accuracy.
- Effectively use technical theatre elements: costumes, make-up, set design, and props.

Grade levels: 8-12

Course type: Performance/production based elective course; can be used for fine arts credit or PE graduation requirement

Course number: 619

Prerequisite: Audition or approval from instructor

Physical Conditioning for Athletes

This is a class for interscholastic or club athletes to improve fitness, conditioning, and skills during the off season and the regular season. It will focus on daily stations of weights, plyometrics, footwork, cardio, and individual sport skills to develop a strong, complete and whole athlete. This will cater to the specific skills that each athlete desires to develop. The main coaches on campus will supervise the development of each athlete. This is an opportunity for every sport participant to improve in play over the duration of his/her Gregory School career. The focus in this class is physical improvement with individualized one-on-one attention with a specific coach.

Elements of this class will include:

- Weight training
- Plyometrics
- Footwork
- Conditioning
- Specific sport drills

Grade levels: Grades 9-12

Course type: Elective course; can be used for fine arts credit or PE graduation requirement

Course number: 657

Prerequisite: Athletes who are currently/planning on being involved in competitive sports

US Interscholastic Athletics

Fall	Cross Country (Boys' and Girls') Swimming (Boys' and Girls') Volleyball (Girls') Golf (Girls') Soccer (Boys')	Winter	Basketball (Boys' and Girls')	Spring	Golf (Boys') Tennis (Boys' and Girls') Track (Boys' and Girls') Volleyball (Boys')
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SCIENCE

All students are required to take four years of science in order to be prepared to make responsible decisions in today's world. We recommend that students who anticipate majoring in a science-related field in college take one physics course and one Advanced Placement course in addition to the required biology and chemistry.

Biology (Lab science)

This course introduces the student to the unifying principles of biology including the overarching theory of evolution by natural selection, as exemplified through experimentation, lectures, readings and discussions on the unity and diversity of life. An overview of the unifying concepts in biology and life at the cellular level are covered during the first semester. Areas of study during the second semester include genetics and evolution.

Grade level: 9

Course type: Academic course required for graduation

Course number: 511

Chemistry (Lab Science)

This course provides the student with an introduction to the study of matter and its changes. Both qualitative and quantitative approaches are used to develop an understanding of the current models of the nature of matter. Topics addressed include atomic theory, the Periodic Table and periodicity of the elements, chemical bonding, stoichiometry, gases, solution chemistry, oxidation and reduction, nuclear chemistry, acid-base theories, and basic organic chemistry. Laboratory experiences become part of this course once the students develop a basic understanding of chemical principles. The laboratory activities are designed to allow the student to explore the concepts presented in a laboratory environment.

Grade level: 10

Course type: Academic course required for graduation

Course number: 513

Prerequisite: Algebra 1

Physics (Lab science)

Physics is a fundamental area of scientific study that aims to explain the physical phenomena in the world (and universe) around us. The Physics course is designed to provide the background necessary for progression to further study in physics (AP Physics 1, College Physics later), as well as a broad understanding of the physical world for those for whom this will be the final course of study in the subject. Classroom activities involve a great deal of practical work, and students learn to express what they have learned in a variety of ways. They learn about the importance of modelling in physics, and how physicists develop, test and use those models. They see the connections between different areas of the subject, and how to use a range of concepts and mathematics to solve problems or explain everyday phenomena. Areas of study include forces, energy, the structure of matter and thermodynamics, waves and the electromagnetic spectrum, electricity and magnetism, and radioactivity.

Grade levels: 9-12

Course type: Academic elective course

Course number: 519

Principles of Animal Science (Lab Science)

Students will be introduced to the principles of animal science and the animal industries. The course will focus on food production animals, but will also explore the areas of service animals and companion animals. Topics include terminology, classification, basic anatomy, digestive systems, animal welfare, and career exploration. This course will utilize and emphasize hands-on learning experiences through organized lab activities, practicums, field trips, and guest speakers.

Grade levels: 9-12

Course type: Academic elective course

Course number: 593
Course offered: First semester elective

Principles of Plant Science (Lab Science)

Students will be introduced to the principles of plant science and the plant-based industries. The course will focus on food and fiber production, but will also explore ornamental plants. Topics include plant structure and function, plant classifications, factors of plant growth, growing conditions (soil, hydroponics, aquaponics), and career exploration. This course will utilize and emphasize hands-on learning experiences through organized lab activities, practicums, field trips, and guest speakers.

Grade Levels: 9-12
Course type: Academic elective course
Course number: 594
Course offered: Second semester elective

Physical Geography of the Southwest (Lab science)

Physical Geography is the study of the spatial characteristics of natural phenomena associated with the Earth's hydrosphere, biosphere, atmosphere, and lithosphere. This course focuses on the Physical Geography of the Southwest (California, Nevada, Utah, Colorado, New Mexico and Arizona); a region rich in natural resources and biologically diverse; yet limited in water and at risk of extreme weather under current climate change scenarios. Semester 1 focuses on the principles of remote sensing, mapping, systems theory, Earth-Sun relationships and the nature and flow of energy and matter, including thermodynamics and the electromagnetic spectrum. Semester 2 focuses on plate tectonics, soils development, global atmospheric and marine circulation patterns, the development of Biomes and principles of ecology. Special emphasis is given to the North American Deserts and the Basin and Range formation, as well as the impact of urbanization on the local ecosystem and natural resources. Students learn about the processes that make the Southwest and the Sonoran Desert a unique ecosystem through lectures, laboratory exercises, field trips and case studies analyses.

Grade levels: 10-12
Course type: Academic elective course
Course number: 580
Prerequisite: Biology

Human Anatomy and Physiology (Lab science)

The first semester of this course focuses on those body systems that are integral to the body's framework and control its activities: skeletal, integumentary, muscular, nervous, and endocrine systems. Second semester focuses on those body systems that are integral to delivering the body's nutrients, ridding it of wastes, and defending the body against outside attack: circulatory, respiratory, digestive, urinary, and immune systems.

Grade levels: 11-12
Course type: Academic elective course
Course number: 532
Course note: May not be taken concurrently with AP Biology
Prerequisite: Biology

AP Biology (Lab science)

This course is designed to be the equivalent of a college introductory biology course usually taken by biology majors during their freshman year. The course utilizes a text adopted by many top colleges and includes coverage of the conceptual framework of biology from the various levels of structural complexity, such as molecular, cellular, organismal, population and ecosystem levels. Students are expected to take the Advanced Placement examination in May. AP Biology students meet with the instructor for standard classes, and a zero hour lab once per week.

Grade levels: 11-12
Course type: Academic elective course
Course number: 527
Prerequisite: A- (90%) or better in Biology, and B+ (87%) or better in Chemistry

AP Chemistry (Lab science)

AP Chemistry is designed to cover the material presented in a college introductory chemistry course. Offering a deeper and broader investigation of the topics covered in Chemistry, AP Chemistry also takes an extended look at the topics of kinetics, thermodynamics, and equilibrium. Laboratory experiments parallel course work. Students who have an interest in chemistry and who fulfill the prerequisites should consider AP Chemistry. Students are expected to take the Advanced Placement examination in May. AP Chemistry students meet with the instructor for standard classes, and a zero hour lab once per week.

Grade levels: 11-12

Course type: Academic elective course; students may opt to take the College Board's Advanced Placement Chemistry examination in May

Course number: 529

Prerequisite: A- (90%) or better in Chemistry, and Algebra 2 or Algebra 2/Trig

AP Physics 1 (Lab science)

AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of physics through classroom study, in-class activity, and hands-on, inquiry-based laboratory work as they explore concepts like systems, fields, force interactions, change, conservation, and waves. This course follows on from Physics, where students have developed an understanding of mechanics, waves, and electricity. AP Physics 1 is a full-year course that is the equivalent of a first-semester introductory college course in algebra-based physics. It is excellent preparation for AP Physics C, both AP Physics C Mechanics and AP Physics C Electricity and Magnetism. Students are expected to take the Advanced Placement examination in May. AP Physics students meet with the instructor for standard classes, and a zero hour lab once per week.

Grade levels: 10-12

Course type: Academic elective course

Course number: 588

Prerequisite: Physics (preferred, additional preparatory work will be needed to start without Physics)

Co-requisite: Algebra 2 or Algebra 2/Trig

AP Physics C - Mechanics (Lab science)

Knowledge of physics is fundamental to understanding the world around us and forms the basis for improved understanding of other sciences. This course emphasizes the in-depth study of a wide range of physics topics and involves the frequent application of advanced algebra, trigonometry, graphical analysis, and calculus to problem-solving. As a result of the math-intensive nature of this course, calculus is a required co-requisite. Lab work and experimentation are emphasized as methods of gathering data for analysis. The course covers the material traditionally presented in a first semester calculus-based college physics class. The course will cover kinematics, Newtonian mechanics, energy, and periodic motion. Students are expected to take the Advanced Placement examination in May. AP Physics students meet with the instructor for standard classes, and a zero hour lab once per week.

Grade levels: 11-12

Course type: Academic elective course

Course number: 576

Course offered: First semester elective

Prerequisite: Physics or AP Physics 1 (preferred)

Co-requisite: Calculus AB or higher

AP Physics C - Electricity and Magnetism (Lab science)

Electricity and Magnetism is a study of electric fields, electric forces, electric circuits, and electromagnetism. The course emphasizes the mathematical calculation of fields and forces associated with the phenomenon of electromagnetism. It requires knowledge and ability to learn mathematical techniques in linear algebra and differential equations to complement a strong mathematical background. Students are expected to take the Advanced Placement examination in May. AP Physics students meet with the instructor for standard classes, and a zero hour lab once per week.

Grade levels: 11-12

Course type: Academic elective course

Course number: 579

Course offered: Second semester elective

Prerequisite: AP Physics C - Mechanics

Co-requisite: Calculus AB or higher

Computer Science A (Not a lab science)

This course serves as an introduction to computer programming. This class focuses on computational thinking and the design of simple computer programs. Students are introduced to a variety of computer languages and learn techniques to create effective and efficient computer code. The main programming language will vary and the course emphasizes many aspects of programming that are not language specific. Additional topics covered include: data storage, computer logic, basic HTML programming, and networking.

Grade levels: 9-12

Course type: Academic elective course

Course number: 541

Course offered: First semester elective

Computer Science B (Not a lab science)

This course is a continuation of Computer Science A. The goal of this class is to advance students in their understanding of computer languages and applications. The main programming language will vary and the course emphasizes many aspects of programming that are not language specific. Topics include: program design and implementation, standard algorithms and numerical techniques, simple applications, and building apps.

Grade levels: 9-12

Course type: Academic elective course

Course number: 571

Course offered: Second semester elective

Prerequisite: Computer Science A (or sufficient background)

Topics in Computer Science (Not a lab science)

After learning a programming language in Computer Science A/B, it is time to expand knowledge and look at the many applications of Computer Science. Students will select one of the sub disciplines to work in small groups. Each of the following topics are semester or yearlong courses.

AR/VR

Augmented Reality(AR) and Virtual Reality(VR) are becoming more and more common. It is used for gaming and advertising, but it soon will be used for new types of entertainment media. We will learn to create worlds and develop those worlds through programming and coding.

Mobile Apps

Learning to create great interfaces and how to design for a user are important parts. We will utilize several mobile app packages to create and code a variety of mobile apps.

Artificial Intelligence and Machine Learning

It has become increasingly easy to teach machines how to recognize objects(computer vision) and make decisions. We will learn several common software packages, implement algorithms, and write code that take advantage of this emerging technology.

Autonomous Vehicles and Artificial Intelligence

We will create and program vehicles that are able to recognize objects and make decisions. We will develop skills that can be utilized to build smarter robotics and electronic devices.

Audio Processing

We will use software that helps create and read digital audio signals and music. We will learn to write code that makes music and analyzes all types of audio.

Digital Animation with Scripting

We will write code that modifies and moves 3D designed files. This is one way to approach digital animation. It uses many coding packages and techniques. We will learn those and construct models and animations using our programming knowledge.

Web Design with Scripting

We will learn design skills needed to make great user interfaces. We will create a web page through scripting and coding. This is not the only way(and may not even be the most common way), but provides a way to develop programming knowledge while creating and making for the real world.

Data Science and Programming

We will write code and implement algorithms that processes and displays data. This is a valuable skill in the age of Big Data that we live in. We will try to understand the way in which we are quantified as data and the way in which companies use that data to drive decision making. We will look at large data sets and use computer programs to interpret and better understand.

Cybersecurity

We will look at the techniques and skills that are utilized in the field of cyber security. We will build knowledge of the many aspects of cyber security while learning to write and develop better computer programs.

Grade levels: 10-12

Course type: Academic elective course

Course offered: First semester elective

Prerequisite: Computer Science A & B

Students will select one of the first semester course options below:

- Augmented Reality & Virtual Reality - Course number: 1001
- Mobile Apps - Course number: 1002
- A.I. & Machine Learning - Course number: 1003
- Autonomous Vehicles & A.I. - Course number: 1004
- Audio Processing - Course number: 1005
- Digital Animation w/ Scripting - Course number: 1006
- Web Design w/ Scripting - Course number: 1007
- Data Science & Programming - Course number: 1008
- Cybersecurity - Course number: 1009

Grade levels: 10-12

Course type: Academic elective course

Course offered: Second semester elective

Prerequisite: First semester Topics in Computer Science

Students will select one of the second semester course options below:

- Augmented Reality & Virtual Reality - Course number: 1011
- Mobile Apps - Course number: 1012
- Artificial Intelligence & Machine Learning - Course number: 1013
- Autonomous Vehicles & Artificial Intelligence - Course number: 1014
- Audio Processing - Course number: 1015
- Digital Animation w/ Scripting - Course number: 1016
- Web Design w/ Scripting - Course number: 1017
- Data Science & Programming - Course number: 1018
- Cybersecurity - Course number: 1019

AP Computer Science (Not a lab science)

In Computer Science A and Computer Science B students have developed the ability to write computer programs and learned several techniques for doing so. In Computer Science C and Computer Science D those programming skills are enhanced by learning more techniques and increasing student awareness of specific algorithms. The course completes the learning objectives needed to take an AP Computer Science exam, but the focus of the programming projects as well as most of the work done is student-directed and aimed at creating functional and innovative computer programs. Students also help intro-level Computer Science students with their understanding, and students will be given time to develop programs which can help in classrooms or in the community.

Grade levels: 10-12

Course type: Academic elective course

Course number: 563

Prerequisite: Computer Science B

Technology Innovation: Design and Build A/ Technology Innovation: Design and Build B (Not a lab science)

This course is designed to give you, the student, the opportunity to explore and discover new knowledge, to gain expertise in some new skill, and to share that skill with your fellow classmates. It is the quintessential hands-on course. Each student or group of students will define a project to be developed over the course of the academic year. Learning objectives are set by the students and guided by the teachers. Designing, building and creating are the cornerstones of the class. Projects should therefore aim to produce a physical prototype, but students are otherwise free to choose whatever project they are passionate about and to pursue the skills necessary to see that project to completion, from initial concept to final product. Students are encouraged to share with classmates the skills and techniques they develop during the course of their project - the class is meant to build a collective wisdom. This class is graded pass/fail.

Grade levels: 9-12

Course type: Performance/production based elective course

Course numbers: Tech Innovation A (first semester) - 557/ Tech Innovation B (second semester) - 558

Course offered: First semester/Second semester elective

SOCIAL SCIENCES

Topics in World Civilizations: Commodities, Trade Routes, and Revolutions

Topics in World Civilizations (TWC) is a yearlong course that traces the cultural, political, and economic development of human civilization from the Ancient World through the Industrial Age. Throughout the year, we will focus on the intellectual, social, and technological contributions of different civilizations from around the world and also study the

interactions between different cultural groups, civilizations, and nations. Along the way, we will focus on some of the commodities and goods that had significant impacts on the people who both produced and consumed them.

Grade level: 9

Course type: Academic course required for graduation

Course number: 309

United States History:

United States History Survey

This course introduces students to the nature and practice of writing history and teaches critical reading, writing, research, and analytical skills that are necessary for The Gregory School graduates to excel in college and the world beyond. The survey course covers United States history from the pre-Columbian era to the 2000s. The course will follow a survey textbook, *America, A Narrative History*, with collaborative projects, including four research projects per year. The specific content and readings are decided upon by the instructor according to expertise and interests, but in every class students experience how history is made, understood, revised, and debated. Themes include cultural encounters and adaptation; complexities of international relationships (including imperialism, ethnicity, and immigration); the success and failures of social and political movements; the tension between individualism and community throughout American history; and the formation of American cultures (including the political cultures of America). This class may be offered to junior and seniors for dual credit at Pima Community College for 6 units.

Grade level: 10-12

Course type: Academic course required for graduation, juniors and seniors eligible for Pima Community College dual credit (6 credits, HIS 141/142)

Course number: 314

AP United States History

An advanced, writing intensive college-level course that will require weekly essays, extensive reading, research and class discussions. The course would be designed for sophomores, juniors or seniors who are in the regular U.S. history Survey class, but who have demonstrated the skills, dedication and self-direction to do independent and additional work as they prepare for the Advanced Placement United States History Test (APUSH) that will be scheduled for the Spring. APUSH covers sections of US history from the Pre-Columbian period through 2000. Students will need to memorize dates, events and characters, and be able to write timed essays that cover the specific APUSH rubric. Additional lab-time may be required during Explorations or before school at least once per week.

Grade levels: 10-12

Course type: Academic course required for graduation

Course number: 315

Prerequisite: Students must petition for this course. Please confer with the instructor to ensure that you understand the additional time commitment that this course entails.

Advanced Upper School History Seminars:

Global Social Issues

In today's world, nations are linked by networks of communications, travel, and trade, which means that issues that were once local are now global. This course examines a range of current social issues from a global perspective (including the U.S.), rooting out the impacts of the issues themselves as well as the movements addressing them. We'll dig into issues such as climate change, governance and corruption, social (in)justice and (in)equity, and poverty, all the while honing in on the (often youth-driven) social movements that have sprung up around the globe to tackle these issues. What do these trends tell us about where we are? What is the impact of the peoples' movements on these trends? The course is centered on readings, case studies, and current events. It is an interactive course, both discussion and project based. Our major projects will be centered on both research and problem-solving.

Grade levels: 10-12

Course type: Academic elective course

Course number: 381

Course offered: First semester elective

Global Youth Identities

This second Global Issues course focuses on youth culture and identity around the world. In part, we will do so by exploring the relationship between global youth (Millennials and Gen-Zers) and social media : how are their lives shaped by their separate contexts? by their interconnectedness? by social media? We will also look at how our global connections have created new youth identities ("Third Culture Kids") and delve into human rights as they relate to issues of identity. The course is centered on readings and "case studies" (snapshots of the lives of youth around the

world) as well as current events. It is an interactive course, both discussion and project based. Some of our major projects will be research oriented, others will be focused on problem solving. Students can take one course or the other, or both for a full year experience.

Grade levels: 10-12

Course Type: Academic elective course

Course number: 386

Course offered: Second semester elective

Roman History

This is a one semester survey course covering Rome's rise from a small village to a world power, its subsequent decline in the west, and the eastern empire to the time of Justinian in the 6th century. This course is designed to augment the overall history curriculum in the high school, and to give students a better understanding of the origins of western civilization. It will also help to enhance the experience of Latin students, particularly those who go on to AP Latin, who would like to gain a greater understanding of, and background in Roman History. This is a discussion based class, and will draw from primary sources and a text. Assessments will consist of research papers, presentations, and debates.

Grade levels: 10-12

Course type: Academic elective course

Course number: 382

Course offered: First semester elective

History of World Sports

In this one semester course we will look at the development of sports from ancient to modern times, and the role they play in social movements. Often, sports are ahead of society in general in dealing with cultural issues. To that end, we will explore gender and diversity, race, media, the olympic movement, and international politics through the lens of sports. Sources will be collected readings and videos.

Grade levels: 10-12

Course type: Academic elective course

Course number: 368

Course offered: Second semester elective

AP U.S. Government and Politics

AP U.S. Government and Politics prepares students for the AP exam in U.S. Government and Politics by simulating a university-level political-science course. Students will examine the U.S. governmental system, extending beyond a narrow focus on institutions to study all relevant aspects of politics, including how external factors influence public-policy decisions. Crucial to the course is following current events related to the government / politics and connecting them to the broader information on the foundations of our government. In the process, the course exposes students to political-science terminology and aims to help students develop their skills of comprehension, analysis, judgment, organization, synthesis, and explanation, both written and verbal, with an emphasis on participation in class discussion.

Grade level: 12

Course type: Academic elective course

Course number: 369

Prerequisite: B+ (87%) or better in second semester junior history course, or by petition

Economics:

Microeconomics and Macroeconomics

Together, these two independent semester courses provide students with an overview that serves as a precursor for courses in related disciplines, a foundation for further study of economics, and a knowledge base for life as an informed worker, consumer, and citizen.

In the first semester, students focus on microeconomics. Trade, supply and demand, and different market structures are the central focus of the semester. The dry, staid vocabulary of economics bursts with new life as students experience the joys of elasticity, opportunity cost, and scarcity. The second semester focus is on macroeconomics and the exciting world of financial markets, interest rates, and economic policy. In both semesters, students read various blogs, journal articles, classic texts, and news stories that catch the fancy of the instructor.

Microeconomics

Grade levels: 11-12

Course type: Academic elective course

Course number: 317

Course offered: First semester elective

Macroeconomics

Grade levels: 11-12

Course type: Academic elective course

Course number: 318

Course offered: Second semester elective

Entrepreneurship

Entrepreneurship is a yearlong course designed to take students through the process of turning an idea into a business. Students will learn and apply the skills that an entrepreneur in product development might encounter – skills as diverse as branding, online and traditional marketing, budgeting, prototyping, management, and website development. The class will network regularly with TGS community members, alumni, and local entrepreneurs. By the end of the year, students will have developed a professional portfolio enabling them to begin their business. This course will be graded on a “Pass/Fail” basis, and students will need to apply to the program.

Grade level: 11-12

Course type: Academic elective course

Course number: 389

Prerequisite: Application, possible interview

Psychology:

Psychology and Literature A/Psychology and Literature B

This upperclassmen course is designed to familiarize students with basic psychological theories through the study of works that embody such themes as guilt, vengeance, justice, loneliness, loss, and the journeys that encompass our psychological growth toward self-knowledge. While literature invites us to present a “thesis,” psychology requires a “diagnosis” to support our findings. Students will approach psychologists such as Freud, Jung, Skinner, and Rogers to understand how the study of psychology can enrich our understanding of contemporary and classic works, as well as to better know ourselves and those we love. In addition to psychology texts, we will explore *Catcher in the Rye*, *In the Lake of the Woods*, *Streetcar Named Desire*, *Everything That Rises Must Converge: Short Stories*, *The Boy who was Raised by a Dog*, *Medea*, *Ordinary People*, and *The First Time She Drowned*. This is a two-part, two-semester course. Students must take semester one in order to continue into the spring semester. The first four texts will make up semester one. The remaining works will be explored in semester two.

Grade levels: 10-12

Course type: Academic elective course

Course number: 46

Course numbers: Psych & Lit A - 383/Psych & Lit B - 385

Course offered: First semester/Second semester elective

Prerequisite for second semester: Must take first semester

Psychology and Film

This upperclassmen course is designed to follow the introductory Psychology and Literature course. Through the lens of films from a variety of eras will explore universal topics such as:

- Anxiety Disorders
- Stress and Health Psychology
- Sensation and Perception
- Grief
- Schizophrenia
- Bi-Polar Disease
- Dissociative Identity Disorder (Multiple Personality Disorder)
- Memory
- Thinking, Language, and Intelligence
- Motivation and Emotion
- Personality
- Therapy
- Social Psychology
- Trauma
- Sociopathy and Psychopathy

Grade levels: 11-12

Course type: Academic elective course

Course number: 390

Prerequisite: While it is recommended that students take Psychology and Literature as a prerequisite, students in good standing may opt to take this advanced level course instead. Students must produce a signed waiver in order to watch some R rated films presented in the course.