

2016-2017

Grady HS Course Catalog



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Henry W. Grady High School

Individually we are different...together we are Grady

The Grady course catalog is to be used by students, parents and faculty of Grady High School to assist with the understanding and/or selection of courses.

Every effort has been made to ensure the information in this document is accurate; however, there may be errors or omissions as this booklet is a work-in-progress.

If you have specific questions regarding the use of the Grady course catalog, you are encouraged to contact your child's grade level administrator, school counselor, or instructional coach.

*****Disclaimer- It is important to note that course listings and course offerings may vary from year to year. To that point, every course listed in this catalog may not necessarily be offered during the current academic school year.***

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GRADUATION REQUIREMENTS

Graduation Credit Checklist: CORE CLASSES & ELECTIVES	
Subject	Carnegie Unit
English/Language Arts including: 1 unit 9 th Grade Literature Composition 1 unit 10 th Grade Literature Composition 1 unit American Literature Composition or AP Language Composition 1 unit in British Literature Composition, AP Literature Composition, or MOWR English	4
Mathematics including: 1 unit GSE Algebra, Math 1 or its equivalent, 1 unit GSE Geometry, Math 2 or its equivalent, 1 unit GSE Advanced Algebra, Math 3 or its equivalent, 1 Additional Unit of a fourth year math core Additional unit needed to complete the four credits in mathematics must be chosen from the list of GSE/CCGPS/GPS, AP, or MOWR designated courses in the catalog.	4
Science including: 1 unit Biology 1 unit Physical Science or Physics 1 unit of Chemistry, Environmental Science, or Earth Systems 1 additional unit of a fourth year science core	4
Social Studies including: 1/2 unit Am Government Civics 1 unit World History or AP World History 1 unit U. S. History or AP U.S. History 1/2 unit Economics or AP Economics	3
Health	1/2
Physical Education including 1/2 unit Personal Fitness 1/2 unit of an additional PE	1
World Language *University System of Georgia colleges and universities require at least two years of the same foreign language to meet admission requirements. However, three or more years is highly recommended.	2
Career, Technical and Agricultural Education or Fine Arts	1
Community Service 75 hrs. Volunteer Service	1/2
Core Courses	20
Electives (3 units primarily from a selected pathway)	4
Total	24

STATE ASSESSMENTS

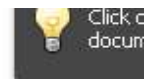
Milestone or End-of-Course Test (EOC)

Milestone or End of Course Tests are state-mandated and administered for the following eight courses: ***GSE Algebra, GSE Geometry, (this also includes CCGPS and GPS versions), 9th Grade Literature and Composition, American Literature and Composition, Physical Science, Biology, United States History, and Economics.*** Any student taking these courses for credit will be required to take the Milestone or End of Course Test. All courses, with the exception of Economics, are year-long and the Milestone will be administered near the end of the second semester. Economics is a one-semester course and the test for this class will be given near the end of the semester in which the course is taken. For all current high school students this exam will count as 20% toward the final course grade. For years prior to 2015, please refer to the cohort comparison below for additional details regarding the Milestone or EOC. Students who do NOT take the Milestone or EOC will receive a NGE (No Grade Exam or No Grade Equivalent) and no credit will be given until the student takes the Milestone or EOC.

Georgia High School Writing Test (GHSWT) & Georgia High School Graduation Test (GHSGT)

On March 30, 2015 HB91 enacted O.C.G.A. § 20-2-281.1, whereby both the GHSGT & GHSWT are no longer required for graduation.

Proposed Secondary Assessment Transition Matrix



	Ninth Graders	Tenth Graders	Eleventh Graders	Twelfth Graders
2011/2012	EOCT = 20% of course grade Pass the GHSWT	EOCT = 15% of course grade [Pass one EOCT in each of the four content areas or pass the corresponding subject test of GHSGT] Pass GHSWT	EOCT = 15% of course grade [Pass one EOCT in each of the four content areas or pass the corresponding subject test of GHSGT] Pass GHSWT	EOCT = 15% of course grade [Pass one EOCT in each of the four content areas or pass the corresponding subject test of GHSGT] Pass GHSWT
2012/2013	EOCT = 20% of course grade Pass the GHSWT	EOCT = 20% of course grade Pass the GHSWT	EOCT = 15% of course grade [Pass one EOCT in each of the four content areas or pass the corresponding subject test of GHSGT] Pass GHSWT	EOCT = 15% of course grade [Pass one EOCT in each of the four content areas or pass the corresponding subject test of GHSGT] Pass GHSWT
2013/2014	EOCT = 20% of course grade Pass the GHSWT	EOCT = 20% of course grade Pass the GHSWT	EOCT = 20% of course grade Pass the GHSWT	EOCT = 15% of course grade [Pass one EOCT in each of the four content areas or pass the corresponding subject test of GHSGT] Pass GHSWT
2014/2015	Common Core Assessment Implementation (Language Arts & Mathematics) EOCT = 20% (Science & Social Studies)	Common Core Assessment Implementation (Language Arts & Mathematics) EOCT = 20% (Science & Social Studies)	Common Core Assessment Implementation (Language Arts & Mathematics) EOCT = 20% (Science & Social Studies)	EOCT = 20% of course grade Pass the GHSWT

MOWR Program (Dual Enrollment)

Students may take college courses while still attending Grady. To participate in MOWR, a student must first contact the admissions office at a college or university and be admitted into their program. Once accepted for MOWR, the student must bring documentation to the counselor at Grady verifying admission. Logistical issues must be addressed as well. For additional information, please visit www.gafutures.org and/or speak with your assigned school counselor. As an alternative to traveling away from the high school, Grady offers an on-site dual enrollment program called the Renaissance whereby students are allowed to enroll in college credit courses during the 4th period block while remaining on the high school's campus.

On Line Options (DOE GA Virtual School and AVA programs)

This recovery program is available to all grade levels with priority given to seniors. Most core classes, AP classes and some electives are available online through our online programs, which is free of charge. However with Georgia Virtual School courses may range \$250-\$300 per semester. Students must confer, seek approval, and apply for such courses with their assigned counselor and lastly finalize enrollment with media specialist Mr. Montero or graduation coach Mrs. Gray. See your school counselor for more information. Visit the Georgia Virtual School site to see course offerings at www.gavirtualschool.org. AVA (Atlanta Virtual Academy) is another option for credit recovery and/or enrolling in new courses for advancement credit. To see AVA course offerings visit www.atlantapublicschools.us/ava.

Advanced Placement (AP)

Grady High School offers Advanced Placement courses in the following subjects: Biology, Calculus AB, Calculus BC, Computer Science, English Literature, English Language, Environmental Science, European History, French Language, Human Geography, Comparative Government and Politics, US Government and Politics, Latin Vergil, Macroeconomics, Microeconomics, Music Theory, Physics B, Psychology, Spanish Language, Statistics, Drawing/Studio Art, U.S. History, and World History. Juniors and seniors are advised to take no more than three AP courses in any given semester. Students must apply and be accepted into an Advanced Placement course which is based on a combination of the following criteria; PSAT scores, semester grades earned in prior related subjects, and instructor recommendations. An Advanced Placement guide with specific information about prerequisite courses, requirements, and the application dates and process is available online and is distributed before students apply.

PSAT

The Preliminary SAT (PSAT) is a preparatory test for the SAT. It is designed to help students identify strengths and weaknesses in preparing for their last two years of high school, as well as for the SAT. The PSAT is administered to all 10th and 11th grade students in October, and may be administered to ninth grade students if funding is available. Ninth grade students interested in taking an AP course in the 10th grade should take the PSAT for consideration. If grant funding is not available, students will be required to pay the nominal registration fee. Additionally, students wishing to qualify for National Merit and National Achievement scholarships must take the PSAT during junior year. The Governor's Honors Program also requires the PSAT.

ACT

The American College Test (ACT) is also generally taken by 11th and 12th grade students who wish to apply to college. It is designed to measure a high school student's general educational development and ability to succeed in college. The test covers five subject areas: English, Math, Reading, Science and an optional writing test. Each subject area is scored with a composite score for the entire test ranging from 1 – 36. This test has become the most widely accepted college admission assessment. For more information and a list of testing dates and locations, visit www.actstudent.org. Grady High School CEEB CODE is 110170

SAT

The SAT is generally taken by 11th and 12th grade students applying to college. The SAT score is accepted for admission to the majority of colleges. The test is designed to measure evidence based reading, writing and math

and is used to predict a student's college performance. Each section of the SAT is scored on a scale of 200—800, and since the new version adopted in March 2106 the total composite possible is 1600. For more information and a list of testing dates and locations, visit www.collegeboard.com. Grady High School CEEB CODE is 110170.

Georgia Student Finance Commission HOPE & Zell Miller Scholarship Programs

Georgia has two merit based scholarship programs; HOPE and Zell Miller. The HOPE Scholarship is available to Georgia residents who have demonstrated academic achievement. The scholarship provides money to assist students with the educational costs of attending college in Georgia. A student must have a 3.0 cumulative, CORE grade point average to earn standard HOPE. All credits attempted in the core subjects will be averaged by the Georgia Student Finance Commission using a true 4.0 scale to calculate eligibility.

The Zell Miller scholarship will offer full tuition to students who graduate from high school as a valedictorian or salutatorian or those who graduate from high school with a minimum 3.75 GPA, an ACT composite of 26+, a 1200+ in the reading and math portions of the old SAT. To continue receiving the Zell Miller Scholarship, students will have to maintain a 3.3 grade point average while attending college.

Students are required to have a valid Social Security number and are strongly encouraged to submit a FAFSA to receive HOPE/Zell Miller scholarship funds.

For additional information on all HOPE scholarships, please visit www.gafutures.org

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High School Diploma

A HS diploma is awarded to students who have completed all graduation requirements, which include attendance, Carnegie Units and the state's assessment requirements.

High School Certification of Attendance

A certificate of attendance is awarded to students who do not complete all the criteria for a diploma, but who meet all requirements for attendance and Carnegie units.

Life Skills Diploma (formally known as Special Education)

A life skills diploma is awarded to students with disabilities assigned to a special education program when the students have not met the state's assessment requirements for a high school diploma but have nevertheless completed their Individualized Education Programs.

Minimum Number of Carnegie Units Required For Grade Placement- Class of 2012 and beyond

The following credits are needed for promotion:

- 10th grade6 units (Typically this includes 1 unit in English, math, social studies, and science + 2 electives)
- 11th grade.....12 units (Typically this includes 2 units in English, math, social studies, and science + 4 electives)
- 12th grade.....18 units (Typically this includes 3 units in English, math, social studies, and science + 6 electives)

Curriculum Implications

Middle School Course Work

Elective credit may be awarded for courses offered in the middle school grades that meet the following criteria:

- Must meet 9-12 GSE requirements
- Must earn a grade of 79 or better
- Must include Milestone or EOC exam, if applicable, as prescribed by the Georgia Department of Education

Please note that units earned in middle school shall **not** be counted in the total required units for graduation. These units may be posted on the high school transcript, but will only count towards elective units.

Physical Education Exemptions

- ✓ One full unit of advanced band course may substitute for the one half required elective unit of physical education. All students must complete one half unit of personal fitness. Three units of credit in Junior Reserve Officer Training Corps (JROTC) shall satisfy the one-half required unit of health and the one-half required unit of personal fitness if the courses include comprehensive health and physical education requirements specified in state rule 160-4-2-.12 Comprehensive Health and Physical Education Program Plan. All JROTC students must complete the one-half required unit of elective physical education.
- ✓ Students completing two or more varsity athletic programs sanctioned by the Georgia High School Athletic Association (GHSA) may exempt the one half required unit of elective physical education without earning unit credit. Completion of the athletic programs shall be verified by the APS Director of Athletics and submitted to the principal.

Community Service

In order to meet graduation requirements, students must earn and submit 75 hours of volunteer service during non-school time in agencies approved by the Atlanta Public Schools. Students may begin serving their hours after Eighth grade promotion. Documentation of these hours should be submitted to the counselor by the conclusion of their first semester of senior year. Students should see their assigned counselor or refer to the Grady website for the appropriate service log.

Grading Scale

A: 90 - 100
B: 80 - 89
C: 70 - 79
F: 0 – 69

1.0 Credit= 1 full academic year

.5 Credit= ½ academic year which is the same as 1 semester

Effective the 2002-2003 school year, 10 extra points are added to final course grades of **70 or higher** for Advanced Placement and MOWR courses. GPA is calculated on a numeric scale.

ENGLISH

Four units of English credit are required for a state high school diploma.

Department Chair: Lawrence McCurdy

Course: 9th Literature & Composition; Honors Literature & Composition (23.06100)

Grade: 9

Term: Year/1.0 credit

Prerequisites: None

Description: Integrates writing, grammar and usage, literature, speaking, and listening. This course stresses the writing process. Milestone Exam required.

Course: 10th Literature & Composition; Honors Literature & Composition (23.06200)

Grade: 10

Term: Year/1.0 credit

Prerequisites: 9th Grade Lit & Comp

Description: Includes literary selections from the entire world and promotes proficiency through exploration of a variety of writing styles. This course is designed to enhance organization and development of written thought and speaking and listening abilities through a variety of activities.

Course: American Literature & Composition; Honors American Literature & Composition (23.05100)

Grade: 11

Term: Year/1.0 credit

Prerequisites: 9th and 10th Grade Lit. & Comp.

Description: Offers opportunities to improve reading, writing, speaking/listening, and critical-thinking skills through the study of American literature. This course exposes students to a variety of literary genres and multicultural writers presented in a chronological organization to complement the study of American history. Milestone Exam required.

Course: British Literature & Composition; Honors British Literature & Composition (23.05200)

Grade: 12

Term: Year/1.0 credit

Prerequisites: 9th and 10th Grade Lit & Comp and 11th Grade American Lit

Description: Offers opportunities to improve reading, writing, speaking/listening, and critical-thinking skills through the study of literary selections from British writers and relevant classical texts organized chronologically or thematically. This course emphasizes analytical writing and integrates grammar, mechanics, and usage into the writing process.

Course: AP Language & Composition (23.04300)

Grade: 11

Term: Year/1.0 credit

Prerequisites: Successful completion of 9th and 10th Grade Lit. & Comp (Approval required)

Description: AP English Language and Composition engages students in becoming skilled readers of prose written in a variety of rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading will make students aware of the interactions among a writer's purposes, audience expectations, and subjects, as well as the way genre conventions and the resources of language contribute to effectiveness in writing. The primary source material for the course will be American literature to fulfill the Georgia graduation requirement for 11th Grade American Literature & Composition. Milestone Exam required.

Course: AP English Literature & Composition (23.06500)

Grade: 12

Term: Year/1.0 credit

Prerequisites: Successful completion of 9th, 10th, and 11th grade English (Approval required)

Description: AP English Literature and Composition is a preparatory class in World Literature and Composition leading to the administration of the national AP Examination in English, Literature, and Composition at the close of the second semester. Students will study four primary forms of literature – myth, tragedy, comedy, and satire. Students also will review the use of terms for analyzing narratives, poetry, and drama with numerous practice AP essays which emphasize precise use of the terms. Students will be able to analyze imagery, metaphor, and symbols in lyric poems and analyze point of view, characterization, irony, and symbolism in narratives.

ENGLISH FOR SPEAKERS OF OTHER LANGUAGES

Course: English ESOL I (55.02100)

Grade: 9-12

Term: Year/1.0 credit

Prerequisites: None

Description: Focuses on fundamental skills, such as basic grammar and vocabulary in all four language areas: speaking, listening, reading, and writing. Includes high-frequency vocabulary drawn from content areas and familiarizes students with appropriate learning strategies for all classes.

Course: ESOL Communication Skills II (55.02200)

Grade: 9-12

Term: Year/1.0 credit

Prerequisites: None

Description: Integrates listening and speaking, reading and writing, grammar and usage. Uses all language skills to gain further knowledge of United States culture. Emphasizes sustained interpersonal communication of ideas and personal and safety needs. Increases skills in comprehension of content areas including: use of thesaurus, glossary, dictionary, contextualized guessing at meaning and test-taking strategies. Introduces the writing process. Highlights world literature and authentic texts (newspapers, magazines, labels, directions, etc.).

FOREIGN LANGUAGE

The completion of two years of the same foreign language is required for most college admissions; however, for college admission's competitiveness it is advised that students complete three or more years.

Department Chair: John Allen

FRENCH COURSES

Course: French 1 (60.01100)

Grade: 9-11

Term: Year/1.0 credit

Prerequisites: None

Description: Introduces the French language; emphasizes all language skills--listening, speaking, reading, and writing-- in an integrated way. Includes how to greet and take leave of someone, to ask and respond to basic questions, to speak and read within a range of carefully selected topics and to develop an understanding of French-speaking cultures.

Course: French 2 (60.01200)

Grade: 10-12 (9th with approval)

Term: Year/1.0 credit

Prerequisites: French 1

Description: Enhances level one skills in French and provides opportunities to develop listening, speaking, reading, and writing skills in an integrated way. Provides continued practice in how to greet and take leave of someone, to ask and respond to basic questions, and to speak and read within a range of carefully selected topics. Provide opportunities to increase understanding of French-speaking cultures.

Course: French 3 (60.01300)

Grade: 11-12 (10th with approval)

Term: Year/1.0 credit

Prerequisites: French 1, 2

Description: Enhances level two skills in French and provides further opportunities to increase listening, speaking, reading, and writing skills in an integrated way. Provides continued practice in previous topics and introduces new topics. Offers further opportunities to increase understanding of French-speaking cultures.

Course: French 4 (60.01400)

Grade: 11-12

Term: Year/1.0 credit

Prerequisites: French 1, 2, 3

Description: Enhances level three skills in French and provides further opportunities to increase listening, speaking, reading, and writing skills in an integrated way. Provides continued language development through exploration of familiar and unfamiliar topics and provides opportunities to develop a broader and more extensive understanding of French-speaking cultures.

Course: AP French: Language (60.01700)

Grade: 11-12

Term: Year/1.0 credit

Prerequisites: French 1, French 2, and French 3 (Approval required)

Description: In AP French Language, students hone their skills in listening, reading, storytelling and writing, using correct French grammar. Students should already have a basic knowledge of the language and culture of French speaking peoples and should have a reasonable proficiency in listening comprehension, speaking, reading, and writing.

SPANISH COURSES

Course: Spanish 1 (60.07100)

Grade: 9-11

Term: Year/1.0 credit

Prerequisites: None

Description: Introduces the Spanish language; emphasizes all language skills--listening, speaking, reading, and writing-- in an integrated way. Includes how to greet and take leave of someone, to ask and respond to basic questions, to speak and read within a range of carefully selected topics and to develop an understanding of Spanish-speaking cultures.

Course: Spanish 2 Honors & Regular (60.07200)

Grade: 10-12 (9th with approval)

Term: Year/1.0 credit

Prerequisites: Spanish 1

Description: Enhances level one skills in Spanish and provides opportunities to develop listening, speaking, reading, and writing skills in an integrated way. Provides continued practice in how to greet and take leave of someone, to ask and respond to basic questions, and to speak and read within a range of carefully selected topics. Provide opportunities to increase understanding of Spanish-speaking cultures.

Course: Spanish 3 (60.07300)

Grade: 11-12 (10th with approval)

Term: Year/1.0 credit

Prerequisites: Spanish 1, 2

Description: Enhances level two skills in Spanish and provides further opportunities to increase listening, speaking, reading, and writing skills in an integrated way. Provides continued practice in previous topics and introduces new topics. Offers further opportunities to increase understanding of Spanish-speaking cultures.

Course: Spanish 4 (60.07400)

Grade: 11-12

Term: Year/1.0 credit

Prerequisites: Spanish 1, 2, 3

Description: Enhances level three skills in Spanish and provides further opportunities to increase listening, speaking, reading, and writing skills in an integrated way. Provides continued language development through exploration of familiar and unfamiliar topics and provides opportunities to develop a broader and more extensive understanding of Spanish-speaking cultures.

Course: AP Spanish: Language (60.07700)

Grade: 11-12

Term: Year/1.0 credit

Prerequisites: Spanish 1, Spanish 2 and Spanish 3 (Approval required)

Description: In AP Spanish Language, students hone their skills in listening, reading, storytelling and writing, using correct Spanish grammar. Students should already have a basic knowledge of the language and culture of Spanish speaking peoples and should have a reasonable proficiency in listening comprehension, speaking, reading, and writing.

LATIN COURSES

Course: Latin 1 (61.04100)

Grade: 9-12

Term: Year/1.0 credit

Prerequisites: None

Description: Introduces students to the Latin language and ancient Roman civilization. Emphasizes the ability to write simple Latin phrases and to understand simple Latin passages presented orally and in writing.

Course: Latin 2 (61.04200)

Grade: 10-12

Term: Year/1.0 credit

Prerequisites: Latin 1

Description: Enhances level one skills and provides opportunities to translate longer, more challenging passages. Emphasizes how ancient Roman language and civilization has influenced Western language and civilization.

Course: Latin 3 (61.04300)

Grade: 11-12

Term: Year/1.0 credit

Prerequisites: Latin 1, 2

Description: Enhances previously learned skills and introduces original works by Latin authors. The works of the authors may be selected in any order for courses designated at the third, fourth, and fifth year levels. The authors whose works are studied are Catullus, Caesar, Cicero, Horace, Ovid, and Vergil. Selected works from authors such as Aulus Gellius, Juvenal, Livy, Martial, Cornelius Nepos, Plautus, Sallust, Pliny, as well as authors from later Latin, can be included. Explores the political, economic, social characteristics represented in the works studied and examines the various writing styles of the authors.

Course: Latin 4 (61.04400)

Grade: 12th (11th with approval)

Term: Year/1.0 credit

Prerequisites: Latin 1, 2, 3

Description: Enhances previously learned skills and introduces original works by Latin authors. The works of the authors may be selected in any order for courses designated at the third, fourth, and fifth year levels. The authors whose works are studied are Catullus, Lucretius, Cicero, Caesar, Horace, Ovid, Vergil, Augustus, Pliny the Younger, Livy, and Petronius. Selected works from authors such as Aulus Gellius, Juvenal, Martial, Cornelius Nepos, Plautus, Sallust, and Seneca, as well as authors from later Latin, can be included. Explores the political, economic, social characteristics represented in the works studied and examines the various writing styles of the authors.

Course: AP Latin (61.04800)

Grade: 12th (11th with approval)

Term: Year/1.0 credit

Prerequisites: Successful completion of Latin 1, 2, 3 with an 80+ GPA (Approval required)

Description: AP Latin will consist of advanced readings of Latin prose and poetry in accordance with the College Board recommended syllabi. Students will read and translate selections from Caesar's *Commentarii De Bello Gallico* and from Vergil's *Aeneid*. Both works will be read in their entirety in English. In addition to accurate and precise translation, the course will focus on critical analysis of the text through free-response essays, scansion and figures of speech, as well as background knowledge of the cultural, social and political history surrounding these two seminal works of Latin Literature.

MATHEMATICS

Four units of math credits are required for a state high school diploma.

Department Chair: John Rives

Course: GSE Algebra 1 (27.09900)

Grade: 9

Term: Year/1.0 credit

Prerequisites: 8th grade mathematics

Description: The fundamental purpose of Algebra is to formalize and extend the mathematics that students learned in the middle grades. The critical areas, organized into units, deepen and extend understanding of linear relationships, in part by contrasting them with exponential phenomena, and in part by applying linear models to data that exhibit a linear trend. GSE Algebra uses algebra to deepen and extend understanding of geometric knowledge from prior grades. The final unit in the course ties together the algebraic and geometric ideas studied. TI-83+ graphing calculators are used. Milestone Exam required.

Course: GSE Geometry (27.099100)

Grade: 10

Term: Year/1.0 credit

Prerequisites: Algebra 1

Description: This is the second course in a sequence of three high school courses designed to ensure career and college readiness. The course embodies a discrete study of geometry analyzed by means of algebraic operations with correlated probability/statistics applications and a bridge to the third course through algebraic topics.

Milestone Exam required. The course requires that students:

- Extend the properties of exponents to rational exponents
- Use properties of rational and irrational numbers; perform arithmetic operations with complex numbers
- Use complex numbers in polynomial identities and equations
- Understand congruence in terms of rigid motions
- Prove geometric theorems
- Make geometric constructions

Course: GSE Advanced Algebra Honors or Regular (27.097300)

Grade: 11

Term: Year/1.0 credit

Prerequisites: Algebra 1 & Geometry

Description: This is the culminating course in a sequence of three high school courses designed to ensure career and college readiness. It is designed to prepare students for fourth course options relevant to their career pursuits. The course requires that students:

- Use complex numbers in polynomial identities and equations.
- Interpret the structure of expressions; write expressions in equivalent forms to solve problems
- Perform arithmetic operations on polynomials
- Understand the relationship between zeros and factors of polynomials
- Use polynomial identities to solve problems
- Rewrite rational expressions
- Create equations that describe numbers or relationships
- Understand solving equations as a process of reasoning and explain the reasoning

Course: CCGPS Accelerated Coordinate Algebra/Analytic Geometry A (27.09750)

Grade: 9 or 10

Term: Year/1.0 credit

Prerequisites: Accelerated 8th grade mathematics

Description: The fundamental purpose of Accelerated CCGPS Coordinate Algebra/Analytic Geometry A is to formalize and extend the mathematics that students learned in the middle grades. The critical areas, organized into units, deepen and extend understanding of linear relationships, in part by contrasting them with exponential phenomena, and in part by applying linear models to data that exhibit a linear trend. Coordinate Algebra uses algebra to deepen and extend understanding of geometric knowledge from prior grades. The next unit in the course ties together the algebraic and geometric ideas studied. Transformations on the coordinate plane provide opportunities for the formal study of congruence and similarity. The study of similarity leads to an understanding of right triangle trigonometry and connects to quadratics through Pythagorean relationships. The study of circles uses similarity and congruence to develop basic theorems relating circles and lines and rounds out the course. Milestone Exam required.

Course: Accelerated CCGPS Analytic Geometry B/Advanced Algebra Honors (27.097604)

Grade: 9 or 10

Term: Year/1.0 credit

Prerequisites: Accelerated 8th grade mathematics

Description: This is the second in a sequence of mathematics courses designed to ensure that students are prepared to take higher-level mathematics courses during their high school career, including Advanced Placement Calculus AB, Advanced Placement Calculus BC, and Advanced Placement Statistics. Milestone Exam required. The course requires that students:

- Extend the properties of exponents to rational exponents
- Use properties of rational and irrational numbers; perform arithmetic operations with complex numbers
- Perform arithmetic operations on polynomials
- Use complex numbers in polynomial identities and equations
- Interpret the structure of expressions; write expressions in equivalent forms to solve problems
- Understand the relationship between zeros and factors of polynomials

Course: CCGPS Pre-Calculus Accelerated, Honors, or Regular (27.097400)

Grade: 11 or 12

Term: Year/1.0 credit

Prerequisites: Algebra 1, Geometry, Advanced Algebra

This is the fourth in a sequence of mathematics courses designed to ensure that students are prepared to take or in lieu of taking higher-level mathematics courses during their high school career, including Advanced Placement Calculus AB, Advanced Placement Calculus BC, and Advanced Placement Statistics. The course requires that students:

- Perform arithmetic operations with complex numbers.
- Represent complex numbers and their operations on the complex plane.
- Represent and model with vector quantities
- Perform operations on vectors.
- Perform operations on matrices and use matrices in applications
- Solve systems of equations
- Build new functions from existing functions
- Extend the domain of trigonometric functions using the unit circle
- Model periodic phenomena with trigonometric functions

Course: Advanced Mathematical Decision Making (27.08500)

Grade: 12

Term: Year/1.0 credit

Prerequisites: Algebra 1, Geometry, Advanced Algebra

Description: The course will give students further experiences with statistical information and summaries, methods of designing and conducting statistical studies, an opportunity to analyze various voting processes, modeling of data, basic financial decisions, and use network models for making informed decisions.

Course: AP Calculus-AB (27.07200)

Grade: 11 or 12

Term: Year/1.0 credit

Prerequisites: Accelerated or Regular Algebra, Geometry, Advanced Algebra, Pre Calculus (Approval Required)

Description: The objectives for this course follow the AP syllabus developed by the College Board for the AP Calculus AB Examination. Topics include limits; continuity; derivatives and various applications; integrals and various applications; and algebraic, transcendental, and trigonometric functions. A Texas Instruments TI-84+ graphing calculator or equivalent is required for this course.

Course: AP Calculus-BC (27.07300)

Grade: 11 or 12

Term: Year/1.0 credit

Prerequisites: Accelerated or Regular Algebra 1, Geometry, Advanced Algebra, Pre Calculus (Approval Required)

Description: A rigorous course which follows the standards set forth by the College Board for Advanced Placement Calculus BC. This course may be taken either concurrently with Calculus AB or in the following year. The course permits the students to further examine and explore properties of functions and graphs limits and continuity, differential calculus, and integral calculus. Additional topics include parametric equations, polar curves, vectors, and infinite sequences and series. TI-84+ graphing calculators are required.

Course: AP Statistics (27.07400)

Grade: 11-12

Term: Year/1.0 credit

Prerequisites: Algebra 1, Geometry, Advanced Algebra (Approval required)

Description: The objectives for this course follow the AP syllabus developed by the College Board for the AP Statistics Examination. Topics include organizing data and looking for patterns, producing data, probability, and statistical inference. Students will be expected to write numerous papers using the tools of statistical inference.

The College Board **requires** students to possess a graphing calculator to take the AP Statistics exam. A Texas Instrument TI-83+ graphing calculator or equivalent is recommended for this course.

SCIENCE

*In order to receive a high school diploma, a student must earn 4 units of science credit. At least 1 unit of Biology, 1 unit of the Physical Science **OR** Physics, 1 unit of Chemistry, Environmental Science, **OR** Earth Systems are required for graduation. Then the last unit can be any science the student has not taken i.e. MOWR, AP level, or non-traditional sciences offered at the high school level.*

Department Chair: Jormell Cofield

Course: Biology Honors and Regular (26.01200)

Grade: 9

Term: Year/1.0 credit

Prerequisites: None

Description: The Biology curriculum is designed to continue student investigations of the life sciences that began in grades K-8 and provide students the necessary skills to be proficient in biology. This curriculum includes more abstract concepts such as the interdependence of organisms, the relationship of matter, energy, and organization in living systems, the behavior of organisms, and biological evolution. Students will investigate biological concepts through experience in laboratories and field work using the processes of inquiry. It also introduces science process skills and laboratory safety, research, nature of biology, cellular biology, biochemistry, genetics, evolution, classification, diversity of life, human body, and ecology. Milestone Exam required.

Course: Chemistry Honors and Regular (40.05100)

Grade: 10-12 however typically taken in 10th grade

Term: Year/1.0 credit

Prerequisites: Recommended to have completed Algebra I and Biology with an 80+

Description: The Chemistry curriculum is designed to continue student investigations of the physical sciences that began in grades K-8 and provide students the necessary skills to be proficient in chemistry. This curriculum includes more abstract concepts such as the structure of atoms, structure and properties of matter, characterization of the properties that describe solutions and the nature of acids and bases, and the conservation and interaction of energy and matter. Students investigate chemistry concepts through experience in laboratories and field work using the processes of inquiry. This is a laboratory- based course.

Course: Environmental Science (26.06110)

Grade: 10-12 however typically taken in 10th grade

Term: Year/1.0 credit

Prerequisites: Recommended to have completed Algebra 1 and Biology

Description: Environmental Science is designed as an integrated and global approach to science and technology. The concepts in this course focus on the links between living things, their surroundings, and the total environment of the planet. The scientific principles and related technology will assist the student in understanding the relationships between local, national, and global environmental issues. The intent of the course is to help individuals become informed, get involved, and care for themselves and the environment.

Course: Physical Science (40.01100)

Grade: 11-12 however typically taken in 11th grade

Term: Year/1.0 credit

Prerequisites: Recommended to have completed Algebra 1, Biology, and/or Chemistry/Environmental Science

Description: Designed as a survey course of chemistry and physics. The curriculum includes the more abstract concepts such as the conceptualization of the structure of atoms, motion and forces, and the conservation of energy and matter, the action/reaction principle, and wave behavior. Students investigate physical science concepts through experience in laboratories and field-work using the processes of inquiry. Milestone Exam required.

Course: Physics Honors and Regular (40.08100)

Grade: 11-12 however typically taken in 11th grade

Term: Year/1.0 credit

Prerequisites: Recommended to have completed Algebra 1, Geometry, Biology, and/or Chemistry/Environmental Science with an 80+

Description: The Physics curriculum is designed to continue student investigations of the physical sciences that began in grades K-8 and provide students the necessary skills to be proficient in physics. This curriculum includes more abstract concepts such as interactions of matter and energy, velocity, acceleration, force, energy, momentum, and charge. This course introduces the students to the study of the correction to Newtonian physics given by quantum mechanics and relativity. Students investigate physics concepts through experience in laboratories and field work using the processes of inquiry. Also covers basic mechanics, kinetic theory, thermodynamics, wave mechanics, electricity and magnetism, and some modern physics concepts. This is a laboratory based course.

Course: Human Anatomy and Physiology (26.07300)

Grade: 11-12 however typically taken in 12th grade

Term: Year/1.0 credit

Prerequisites: Biology, Environmental Science/Chemistry, and Physical Science/Physics

Description: The human anatomy and physiology curriculum is designed to continue student investigations that began in grades K-8 and high school biology. This curriculum is extensively performance and laboratory based. It integrates the study of the structures and functions of the human body, however rather than focusing on distinct anatomical and physiological systems (respiratory, nervous, etc.) instruction should focus on the essential requirements for life. Areas of study include organization of the body; protection, support and movement; providing internal coordination and regulation; processing and transporting; and reproduction, growth and development. Chemistry should be integrated throughout anatomy and not necessarily taught as a standalone unit. Whenever possible, careers related to medicine, research, health-care and modern medical technology should be emphasized throughout the curriculum. Case studies concerning diseases, disorders and ailments (i.e. real-life applications) should be emphasized.

Course: AP Biology (26.01400)

Grade: 11-12 however typically taken in the 12th grade

Term: Year/1.0 credit

Prerequisites: Algebra 1, Geometry, Advanced Algebra, Biology, Physical Science or Physics, Environmental Science or Chemistry (Approval required)

Description: This course is designed to be the equivalent of a two semester college introductory biology course usually taken by biology majors during their first year. The AP Biology course is designed to be taken by students after the successful completion of a first course in high school biology and on in high school chemistry. It aims to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. The topics covered on the course are molecules and cells, heredity, evolution, organisms, populations biological chemistry, cells, energy transformations, molecular genetics, heredity, evolution, taxonomy and systematics, monera, protista, fungi, plants, animals, and ecology.

Course: AP Environmental Science (26.06200)

Grade: 11-12 however typically taken in the 12th grade

Term: Year/1.0 credit

Prerequisites: Algebra 1, Geometry, Advanced Algebra, Biology, Physical Science or Physics, Environmental Science or Chemistry (Approval required)

Description: AP Environmental Science is designed to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these

problems, and to examine alternative solutions for resolving and/or preventing them. The following themes provide a foundation for the structure of the AP Environmental Science course: (1) Science is a process, (2) Energy conversions underlie all ecological processes, (3) The Earth itself is one interconnected system, (4) Humans alter natural systems, (5) Environmental problems have a cultural and social context, and (6) Human survival depends on developing practices that will achieve sustainable systems. Environmental science is interdisciplinary; it embraces a wide variety of topics from different areas of study including biology, chemistry, earth science, social sciences, and politics. There is a strong laboratory and field study component to this course that requires students to participate in some activities outside of the normal classroom hours. Experiences both in the laboratory and in the field provide students with unique opportunities to explore how classroom-learned concepts apply to the “real world.”

Course: AP Physics (40.08200)

Grade: 11-12 however typically taken in the 12th grade

Term: Year/1.0 credit

Prerequisites: Algebra 1, Geometry, Advanced Algebra, Biology, Physical Science or Physics, Environmental Science or Chemistry (Approval required)

Description: The Physics course includes topics in both classical and modern physics. Knowledge of algebra and basic trigonometry is required for the course; the basic ideas of calculus may be introduced in connection with physical concepts, such as acceleration and work. Understanding of the basic principles involved and the ability to apply these principles in the solution of problems should be one of the major goals of the course. Students taken this course should cover the following five content areas: Newtonian mechanics, fluid mechanics and thermal physics, electricity and magnetism, waves and optics, and atomic and nuclear physics. The Physics course should also include a hands-on laboratory component with a minimum of 12 student-conducted laboratory investigations. Each student should complete a lab notebook or portfolio of lab reports.

Course: Oceanography (40.07100)

Grade: 11-12 however typically taken in the 12th grade

Term: Year/1.0 credit

Prerequisites: Biology, Physical Science or Physics, Environmental Science or Chemistry

Description: This course introduces the students to the study of the ocean composition and structure, the dynamics of energy flow within the ocean system, and the impact of human interaction with the ocean systems. The basic concepts of physical, chemical, geologic and biological oceanography are addressed by discussions on marine mineral resources, ocean energy, living resources of the sea, marine pollution and ocean management. Student will acquire practical laboratory and field experiences through the reading of charts, making basic measurements of seawater chemistry, examination of coastal geology, wave and beach processes, and marine organisms and habitats. It also is designed to emphasize the interconnectedness of multiple science disciplines and the power to stimulate learning and comprehension across broad scales.

Course: Astronomy (40.0210001)

Grades: 11-12 however typically taken in the 12th grade

Term: Year/ 1.0 credit

Prerequisites: Biology, Physical Science or Physics, Environmental Science or (Chemistry is strongly suggested)

Description: This course will provide the student with an introduction to the concepts of modern astronomy, the origin and history of the Universe and the formation of the Earth and the solar system. Students will compare the Earth's properties with those of the other planets and explore how the heavens have influenced human thought and action. The course gives a description of astronomical phenomena using the laws of physics. The course treats many standard topics including planets, stars, the Milky Way and other galaxies, black holes to more esoteric questions concerning the origin of the universe and its evolution and fate. Although largely descriptive, the course will occasionally require the use of sophomore-high level mathematics. Laboratory exercises include experiments in light properties, measurement of radiation from celestial sources, and observations at local observatories and/or planetariums.

SOCIAL STUDIES

To receive a diploma, every student must earn $\frac{1}{2}$ unit of Economics, $\frac{1}{2}$ credit of American Government/Civics, 1 unit of U.S. History, and 1 unit of World History.

Department Chair: Roderick Pope

Course: American Government/Civics; Honors or Regular (45.05700)

Grade: 9

Term: Semester

Prerequisites: None

Description: Provides students with a background in the philosophy, functions, and structure of the United States government. Students examine the philosophical foundations of the United States government and how that philosophy developed. Students also examine the structure and function of the United States government and its relationship to states and citizens.

Course: World History; Honors or Regular (45.08300)

Grade: 10

Term: Year/ 1.0 credit

Prerequisites: American Government/Civics and World Geography

Description: Provides students with a comprehensive, intensive study of major events and themes in world history. Students begin with a study of the earliest civilizations worldwide and continue to examine major developments and themes in all regions of the world. The course culminates in a study of change, continuity and globalization at the beginning of the 21st century.

Course: U.S. History; Honors or Regular (45.08100)

Grade: 11

Term: Year/ 1.0 credit

Prerequisites: American Government/Civics and World History

Description: Examines the history of the United States beginning with the British settlement of North America. The course's main focus is the development of the United States in the 20th and 21st centuries. The course includes topics related to Colonization through the Constitution; New Republic to Reconstruction; Industrialization, Reform, and Imperialism; Establishment as a World Power; and the Modern Era. The course concludes with significant developments in the early 21st century. Milestone Exam required.

Course: Economics (45.06100)

Grade: 11-12 however typically taken in the 12th grade

Term: Semester

Prerequisites: American Government/Civics, World History, and US History

Description: Provides students with a basic foundation in the field of economics. The course has five sections: fundamental concepts, microeconomics, macroeconomics, international economics, and personal finance. In each area, students are introduced to major concepts and themes concerning that aspect of economics. Milestone Exam required.

Course: AP World History (45.08110)

Grade: 10

Term: Year/ 1.0 credit

Prerequisites: American Government/Civics (Approval required)

Description: Although this course is for sophomores, it should be noted that it is a college-level course that requires a great deal of self-directed work. The course conforms to College Board guidelines for the AP World History Examination and covers the political, cultural, economic, and social development of civilizations. Students will study the development of ancient civilizations, the emergence of nations through trade/communication,

intellectual development, scientific and technological development, emergence of nation states, nations in conflict, and the emerging interdependence of nations.

Course: *AP U.S. History (45.08200)*

Grade: 11

Term: Year/ 1.0 credit

Prerequisites: American Government/Civics and World History (Approval required)

Description: Provides students with the factual knowledge and analytical skills necessary to deal critically with the problems and issues central to our American history and culture. Students will learn to interpret and evaluate the relative significance of primary and secondary source materials, and to present evidence and conclusions clearly and persuasively in essay format required for the AP U.S. History Examination. It covers a broad range of topics including Colonial America, Revolutionary America, Federalism, Nationalism and Jacksonian Democracy, Expansion and Sectionalism, the Civil War and Reconstruction, Industrial America, the Progressive Era, World War I, the Depression Era, World War II, the Cold War, and Modern American Society. Milestone Exam required.

Course: *AP Microeconomics (45.06300) PAIRED WITH AP MACROECONOMICS*

Grade: 11-12 however typically taken in the 12th grade

Term: Semester

Prerequisites: American Government/Civics, US History, and World History (Approval required)

Description: Provides thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the larger economic system. It places primary emphasis on the nature and function of product markets, and includes the study of factor markets and of the role of government in promoting greater efficiency and equity in the economy. It includes the following concepts: scarcity, opportunity costs and production possibilities, functions of product market, supply and demand, models of consumer choice, firm factor markets, efficiency, equity, and the role of government. Milestone Exam required.

Course: *AP Macroeconomics (45.06200) PAIRED WITH AP MICROECONOMICS*

Grade: 11-12 however typically taken in the 12th grade

Term: Semester

Prerequisites: American Government/Civics, US History, World History and AP Microeconomics (Approval required)

Description: Covers basic economic concepts, measurement of economic performance, national income and price determination and international economics and growth. Students examine the economic effects of government budget deficits, consider the issues involved in determining the economic effects of government budget deficits, consider the issues involved in determining the burden of the national debt, and explore the relationships between deficits, interest rates and inflation. Milestone Exam required.

ELECTIVES

The following courses are open to all as long as prerequisites are met.

ENGLISH ELECTIVES

Course: Speech/Forensics 1 (23.04600)

Grade: 9-10

Term: Year/1.0 credit

Prerequisites: None

Description: Emphasizes understanding of various forensic speaking formats while applying reasoning, research skills, methods of persuasion, and delivery skills.

Course: Speech/Forensics 2 (23.04700)

Grade: 10-12

Term: 1.0 credit

Prerequisites: Speech/Forensics I

Description: Provides students with an understanding of philosophical and political theory based in argumentation theory; concentrates on increasing persuasion skills as well as interpretation of drama, prose, and poetry.

Course: Speech/Forensics 3 (23.04800)

Grade: 11-12

Term: 1.0 credit

Prerequisites: Speech/Forensics II

Description: Students receive intensive training in the areas of research, argumentation, persuasive speaking, political commentary, and/or oral interpretation of drama, prose, and poetry.

Course: Speech/Forensics 4 (23.04900)

Grade: 12th

Term: 1.0 credit

Prerequisites: Speech/Forensics III

Description: Students receive intensive training in the areas of research, argumentation, persuasive speaking, political commentary, and/or oral interpretation of drama, prose, and poetry.

Course: Advanced Composition (23.03400)

Grade: 10-12 however typically taken by 11th and 12th grade

Term: Semester

Prerequisites: 9th Literature/Composition

Description: This course focuses on the writing process (planning, drafting, and revising). The students will focus on different writing genres and organizational structures: expository, persuasive, narrative, descriptive, comparison-contrast, exemplification, process analysis, classification, cause and effect, and definition. Advanced grammar skills will be a major component of this class. An emphasis on research is also required.

Course: Writer's Workshop (23.031000)

Grade: 10-12

Term: Semester

Prerequisites: 9th Literature/Composition

Description: This elective course offers opportunities for students to explore different writing genres: narrative, descriptive, persuasive, and expository modes of discourse. The students will study different writers and their writing styles. The students will have opportunities to improve writing proficiency through a complete study of the components of solid writing: fluency, style, diction, mechanics, grammar, imaginative expressions, and details. The course allows students to utilize the writing process to write independently to improve their writing.

Course: Journalism 1 (23.03200)

Grade: 9th

Term: Year/1 credit

Prerequisites: 8th grade English and to be taken concurrently with 9th Literature/Composition

Description: Cultivates a thorough understanding of the fundamental principles of sound journalism and the history of print and broadcast journalism. Explores various modes of journalistic writing, including news, feature, editorial, and column. Students are expected to read the newspaper daily and supplemental outside readings will be assigned.

Course: Journalism 2 Newspaper (23.03300)

Grade: 10-12 however typically taken in 10th grade

Term: Year/1 credit

Prerequisites: Journalism I

Description: The course offers an advanced study of journalistic writing. Skills from Journalism I are continued; the students focus on a more intense analysis of print and broadcast publications. Students read extensively to explore and analyze the influence of good journalistic writing. This course requires more critical thinking and more in-depth writing. Moreover it focuses on knowledge and skills associated with the production and publication of Grady's newspaper, *The Southerner*. It also includes writing in various journalistic modes such as news, features, editorials, and columns; computer layout and design; graphics/photography; and marketing.

Course: Journalism 2 Magazine (23.03300)

Grade: 10-12 however typically taken in 10th grade

Term: Year/1 credit

Prerequisites: Journalism I

Description: The course offers an advanced study of journalistic writing. Skills from Journalism I are continued; the students focus on a more intense analysis of print and broadcast publications. Students read extensively to explore and analyze the influence of good journalistic writing. This course requires more critical thinking and more in-depth writing. Moreover it focuses on knowledge and skills associated with the production and publication of Grady's news magazine, *Nexus and The Unmasking*. It also includes writing in various journalistic modes such as news, features, editorials, and columns: computer layout and design; graphics/photography; and marketing.

Course: Journalism 2 Yearbook (23.03300)

Grade: 10-12 however typically taken in 10th grade

Term: Year/1 credit

Prerequisites: Journalism I

Description: The course offers an advanced study of journalistic writing. Skills from Journalism I are continued; the students focus on a more intense analysis of print and broadcast publications. Students read extensively to explore and analyze the influence of good journalistic writing. This course requires more critical thinking and more in-depth writing. Moreover it focuses on knowledge and skills associated with the production and publication of Grady's yearbook, *The Orator*. It also includes computer layout and design, journalistic writing, customer service, account management, photography, and marketing. *Requires a large after-school commitment.*

Course: Journalism 3 Newspaper (23.03500)

Grade: 11-12

Term: Year/1 credit

Prerequisites: Journalism 2

Description: This course is an extension of Journalism I and II; the students will enhance and hone the skills in journalistic writing, with a main focus in analysis of print and broadcast publications. An in-depth coverage of level-two topics will serve as the main premise. Students will evaluate and apply skills appropriately and efficiently to various publication opportunities and activities. Students will assume leadership roles as they further their knowledge and skills associated with the production and publication of Grady's newspaper, *The Southerner*. These

skills include writing in various journalistic modes such as news, features, editorials, and columns; computer layout and design; graphics/photography; and marketing.

Course: Journalism 3 Magazine (23.03500)

Grade: 12

Term: Year

Prerequisites: Journalism 2

Description: This course is an extension of Journalism I and II; the students will enhance and hone the skills in journalistic writing, with a main focus in analysis of print and broadcast publications. An in-depth coverage of level-two topics will serve as the main premise. Students will evaluate and apply skills appropriately and efficiently to various publication opportunities and activities. Moreover students will assume leadership roles as they further their knowledge and skills associated with the production and publication of Grady's news magazine, *Nexus and The Unmasking*. Students proofread and edit submissions to the literary magazine. These skills include writing in various journalistic modes such as news, features, editorials, and columns; computer layout and design; graphics/photography; and marketing.

Course: Journalism 3 Yearbook (23.03500)

Grade: 12

Term: Year/1.0 credit

Prerequisites: Journalism 1 and 2

Description: This course is an extension of Journalism I and II; the students will enhance and hone the skills in journalistic writing, with a main focus in analysis of print and broadcast publications. An in-depth coverage of level-two topics will serve as the main premise. Students will evaluate and apply skills appropriately and efficiently to various publication opportunities and activities. Moreover students will assume leadership roles as they further their knowledge and skills associated with the production and publication of Grady's yearbook, *The Orator*. These skills include computer layout and design, journalistic writing, customer service, account management, photography, and marketing techniques. *This class requires a large after-school commitment.*

Course: Journalism 4 Magazine (23.03600)

Grade: 12th

Term: Year/1.0 credit

Prerequisites: Journalism 1-3

Description: This course is designed for students who have mastered skills in Journalism 3. The students will publish journalistic articles either in a school newspaper or in the local newspaper. Research and interviews will be required when formulating ideas for writing. The range of opportunities to apply skills will be increased.

Course: Communication Skills (23.081000)

Grade: 9-12 however typically taken by 9th graders

Term: Year/1.0 credit

Prerequisites: 9th Literature Composition or concurrent with the class

Description: This course focuses on reinforcement of Georgia Performance Standards based course. The students receive reinforcement in the following strands: Reading and Literature, Reading across the Curriculum, Writing, Conventions, and Listening, Speaking, and Viewing. The emphasis is to offer reading skills, vocabulary development, reading opportunities, writing process activities, and conventions study.

Course: Reading Enrichment (23.08200)

Grade: 9-12 however typically taken by 10th graders

Term: Year/1.0 credit

Prerequisites: 9th Literature Composition or concurrent with the class

Description: This course, an extension of the Communication Skills course, focuses on reinforcement of the Georgia Performance Standards based course. The student receives reinforcement in the following strands: Reading and Literature, Reading across the Curriculum, Writing, Conventions, and Listening, Speaking, and Viewing. The emphasis is to offer reading skills, vocabulary development, reading opportunities, writing process

activities, and conventions study. The course enhances reading skills necessary to promote continual development in language arts.

FINE ART ELECTIVES

Course: Visual Art Comprehension 1 (50.02110)

Grade: 9-12

Term: Year/1.0 credit

Prerequisites: Interest in art

Description: Introduces art history, art criticism, aesthetic judgment and studio production using a variety of media, presentations, projects and research. This course serves as the prerequisite for all other art classes.

Course: Contemporary Music Studies (50.02600)

Grade: 9-12

Term: Semester/.5 credit

Prerequisites: Interest in Music

Description: Provides opportunities to explore the historical and socio-cultural development of indigenous American ethnic and folk music [including modern popular music, hip-hop, R&B, rap, rock and roll, jazz, blues etc.] The course traces the roots of the music to its origins, styles, composers, performers and socio-political influences.

Course: Drawing and Painting 1 (50.03130)

Grade: 10-12

Term: Year/1.0 credit

Prerequisites: Visual Art Comprehension

Description: Explores a variety of drawing techniques, media, art criticism, and art history. This class explores the creative process, technical discipline, and self-expression through two-dimensional image making and representation using pen, pencil, collage and paint.

Course: Drawing and Painting 2 (50.03140)

Grade: 10-12

Term: Year/1.0 credit

Prerequisites: Visual Art Comprehension, Drawing and Painting 1

Description: D/P II expands on previous experience and explores illusion, perspective, observational drawing, and human figure representation. This class is intended as a portfolio builder for more serious student artists. Students will pursue a more individualistic set of goals culminating in a final portfolio evaluation.

Course: Sculpture 1 (50.06110)

Grade: 10-12

Term: Year/1.0 credit

Prerequisites: Visual Art Comprehension

Description: Introduces the design and production of three dimensional art with a variety of media, tools, collaboration, art criticism, and art history.

Course: *Sculpture 2 (50.06120)*

Grade: 10-12

Term: Year/1.0 credit

Prerequisites: Visual Art Comprehension, Sculpture 1

Description: Enhances level-one skills and explores the design and production of relief sculpture and sculpture-in-the-round. Emphasizes the historical origins and functions of sculpture in Western and non-Western cultures. Includes additive, subtractive and modeling methods; explores traditional and nontraditional materials for sculpted works and their sculptors.

Course: *Visual Arts./ Photography I (50.071100)*

Grade: 10-12 however a few 9th graders can be selected

Term: Semester/.5 credit

Prerequisites: Visual Art Comprehension

Description: Students will understand the basics of black and white photography, develop darkroom skills, use the photographic medium as artistic expression, and develop critical skills and an aesthetic awareness of photography.

Course: *Photo Design 2 (50.071200)*

Grade: 10-12

Term: Year/1.0 credit

Prerequisites: Visual Art Comprehension, Photography 1, or by special permission

Description: Students will develop a critical eye for photography, compare and use various types of black/white film and camera filters, understand the process of black and white processing and printing, identify and correct printing problems, and experiment with various photographic techniques and themes.

Course: *Photo Design 3 (50.071300)*

Grade: 11-12

Term: Year/1.0 credit

Prerequisites: Visual Art Comprehension, Photo Design 1, 2, or by special permission

Description: Emphasizes the development of a photography portfolio. Students will prepare a written proposal for a concentrated portfolio of work, create a body of work that supports a written proposal, evaluate their photographs and select images for the portfolio.

Course: *Photo Design 4 (50.071400)*

Grade: 11-12

Term: Year/1.0 credit

Prerequisites: Visual Art Comprehension, Photo Design 1, 2, 3, or by special permission

Description: Enhances level-three skills and provides opportunities to apply more complex photographic designs using advanced and experimental pinhole and/or 35mm photographic techniques. It explores alternative, experimental developing chemicals and processes. Moreover it stresses personal expression of ideas and depth of exploration in selected photo techniques. Continues to explore photography and photographers

Course: *Applied Design I (50.04310)*

Grade: 9-10

Term: Semester/.5 credit

Prerequisites: Visual Art Comprehension

Description: Emphasizes design elements and principles in the production of art products such as architecture, advertisements, graphic designs, environmental designs and product designs. This class stresses proper use of equipment and vocabulary and technical terms. It also investigates the computer and its influence on and role in creating contemporary designs and includes a cultural and historical study of master design works of different periods and styles. It also analyzes current fashion trends and explores unconventional methods for making clothes.

Course: Applied Design 2 (50.04320)

Grade: 10-12

Term: Year/1.0 credit

Prerequisites: Visual Art Comprehension, Applied Design 1

Description: Enhances level-one skills and provides opportunities to apply design elements and principles in the production of art products such as architecture, advertisements, graphic designs, environmental designs and product designs. Uses board- and computer-generated designs for art products; covers how to create designs and plan their presentation.

Course: Applied Design 3 (50.04330)

Grade: 10-12

Term: Year/1.0 credit

Prerequisites: Visual Art Comprehension, Applied Design 1, 2

Description: Enhances level-two skills and provides further opportunities to apply design elements and principles in the production of art products such as architecture, advertisements, graphic designs, environmental designs and product designs. Uses board- and computer-generated designs for art products; covers how to create designs and plan their presentation.

Course: Applied Design 4 (Senior Line) (50.04340)

Grade: 12th however some 11th graders with approval

Term: Year/1.0 credit

Prerequisites: Visual Art Comprehension, Applied Design 1, 2, 3

Description: Enhances level-three skills and provides opportunities to apply design elements and principles in the production of art products such as architecture, advertisements, graphic designs, environmental designs and product designs. Uses board- and computer-generated designs for art products; covers how to create designs and plan their presentation. This is an intense design and fabrication of a fashion portfolio culminating in multiple public exhibitions.

Course: AP Studio Art (50.08100)

Grade: 11-12 however typically taken by 12th graders

Term: Year/1.0 credit

Prerequisites: Successful completion of at least three art courses with an 80% or better GPA and/or portfolio review by instructor.

Description: Students work in various modes with an emphasis on individual exploration and production. Students also study advanced art criticism, exhibition practices and portfolio documentation. Refer to the AP booklet and College Board (www.collegeboard.org/studioart) website for additional information on requirements and the application process. The course varies depending on students' abilities. This class includes emphases in drawing, painting, 2D art and 3D art.

Course: Theater Arts 1 (52.02100)

Grade: 9-12

Term: Year/1.0 credit

Prerequisites: None

Description: Dramatic Arts/Fundamentals I and serves as prerequisite for other theater/drama courses. Develops and applies performance skills through access to basic vocal, physical and emotional exercises; includes improvisation and scene study and related technical art forms.

Course: Theater Arts/Musical Theatre 1, 2, 3 (52.03100)

Grade: 10-12

Term: Year/1.0 credit

Prerequisite: Theater Arts 1 and recommendation only (Auditions before registration)

Description: Introduces the style and characteristic elements of modern musical theater. Covers production staging, orchestration, voice and dance; offers an opportunity for team teaching through interdisciplinary

collaboration with the chorus, band, art, technology, physical education and dance instructors. This class offers several opportunities for public performances of various audience sizes.

Course: Advanced Drama 1 (52.05100)

Grades: 10-12

Term: Year/1.0 credit

Prerequisite: Theater Arts 1/Theater Arts Acting 1

Description: Introduces acting and theater as disciplined art forms; covers methods to observe and understand human behavior and to use those observations to create a character. This class includes basic techniques of stage movement and use of physical expression for communication. Moreover it enhances vocal techniques and specific patterns for better verbal communication. Advanced Drama requires students to direct and produce Senior One-Acts. Students are acting or serving as technicians working directly with student directors on their individual production.

Course: Theater Arts/Acting 1 & 2 (52.06100)

Grade: 10-12

Term: Year/1.0 credit

Prerequisite: Theater Arts 1 with an 80% or higher. For level 2; Theater Arts 1 and Theater Arts/Acting 1 with 80% or higher

Description: Introduces advanced acting process. This class stresses developing imagination, observation, concentration powers and self-discipline. Includes developing physical and vocal control while transmitting emotions, convictions and ideas; enhances self-confidence and self-awareness. It also focuses on scene study.

Course: Theater Arts/Technical 2 (52.04200)

Grade: 10-12

Term: Year/1.0 credit

Prerequisite: Theater Arts 1

Description: Introduces technical considerations of play production; covers properties, lighting and settings, program, box office, marketing, management, make-up and costumes. Enhances level-one skills and introduces aspects of drafting, creation of lighting, sound, properties, costumes and make-up design. This class offers opportunities to apply skills in these areas.

Course: Theater Arts/Technical 3 (52.04300)

Grade: 10-12

Term: Year/1.0 credit

Prerequisite: Tech Theatre I

Description: Enhances level-two skills in drafting and set design and includes in-depth exploration of light operation, sound operation, stage management, costume construction, set development, make-up and production staff. This class offers opportunities to apply skills in these areas.

MUSIC ELECTIVES

Course: Contemporary Music Studies (53.02600)

Grade: 9-12

Term: Semester/.5 credit

Prerequisites: none

Description: Contemporary Music Studies provides opportunities to explore the historical and socio-cultural development of indigenous American ethnic and folk music [including modern popular music, hip-hop, R&B, rap, rock and roll, jazz, blues etc.] The course traces the roots of the music to its origins, styles, composers, performers and socio-political influences.

Course: Music Appreciation 1 (53.01400)

Grade: 9-12

Term: Semester/.5 credit

Prerequisites: none

Description: Introduces production and performance; covers terminology and idioms, elements of music, perceptive listening and attitudes and appreciation. Stresses the ability to become a literate consumer and the ability to speak and write about music.

Course: Beginning Band 1 (53.03610)

Grade: 9-12

Term: Year/1 Credit

Prerequisites: Interest in playing an instrument

Description: Provides opportunities to develop performance skills on a wind or percussion instrument. Emphasizes performance and production; may include analysis, historical and cultural influences, improvisation and appreciation of music. It also organizes objectives for self-paced progress through all four levels as well as stresses individual progress and group experiences.

Course: Intermediate Band 1, 2, 3 (53.03710)

Grade: 9-12

Term: Year/1 Credit

Prerequisites: Successful completion of beginning band in middle or high school Beg Band 1

Description: Provides opportunities for intermediate-level performers to increase performance skills and precision on a wind or percussion instrument. The course includes performance and production, analysis and theoretical studies, historical and cultural contributions and influences, creative aspects of music and appreciation of music. Stresses individual progress and learning and group experiences; strengthens reading skills.

Course: Advanced Band 1, 2, 3, 4 (53.03810, 53.03820, 53.03830, 53.03840)

Grade: 9-12

Term: Year/1 Credit

Prerequisites: Successful completion of intermediate or advanced band; Auditions needed.

Description: Enhances level-three skills and provides further opportunities for advanced-level performers to develop and refine performance skills and precision on a wind or percussion instrument. These classes cover performance and production, analysis and theoretical studies, historical and cultural contributions and influences, creative aspects of music and appreciation of music. Stresses self-paced progress in an increasing breadth of repertoire, individual learning strategies and ensemble experiences. Advance Band also provides opportunities for advanced-level performers to increase performance skills and precision on a wind or percussion instrument. Students can take this course for four years.

Course: Advanced Jazz Band 1, 2, 3, 4 (53.06610, 53.06620, 53.06630, 53.06640)

Grade: 9-12

Term: Year/1 Credit

Prerequisites: Successful audition with band teacher

Description: Enhances level-three skills and provides further opportunities for advanced-level performers to increase performance skills and knowledge on instruments or voice in a jazz idiom. All levels of Jazz Band covers performance and production, analysis and theoretical studies, historical and cultural contributions and influences, creative aspects of music (especially improvisation and composition) and appreciation of music. Stresses self-paced progress and group experiences. Emphasizes jazz as an indigenous American art form and a major component of our cultural heritage. Jazz band engages the intermediate to advanced musician with multiple opportunities to increase skill and versatility through jazz ensemble performance. Students will play standards and modern works that swing.

Course: Beginning Orchestra 1, 2 (53.05610) (53.05620)

Grade: 9-12

Term: Year/1 Credit

Prerequisites: Interest in playing string instruments; some middle school experience required

Description: Provides opportunities to develop performance skills and precision on orchestral stringed instruments. The class emphasizes performance and production, analysis and theoretical studies, historical and cultural contributions and influences, creative aspects of music and appreciation of music. Moreover it organizes objectives for self-paced progress through all four levels as well as stresses individual progress and ensemble experiences. Members will perform and may participate in All-State, District Honor Orchestra, and perform at GMEA Solo and Ensemble Festival.

Course: Intermediate Orchestra 1, 2, 3 (53.05710, 53.05720, 53.05730)

Grade: 9-12

Term: Year/1.0 Credit

Prerequisites: Beginning Orchestra and Audition

Description: Enhances level-two skills and provides further opportunities for intermediate-level performers to increase performance skills and precision on orchestral stringed instruments. Covers performance and production, analysis and theoretical studies, historical and cultural contributions and influences, creative aspects of music and appreciation of music. Stresses self-paced progress and group experiences. Members will perform concerts and may participate in All-State, District Honor Orchestra, and perform at GMEA Solo and Ensemble Festival.

Course: Advanced Orchestra 1, 2, 3, 4 (53.058100, 53.058200, 53.058300, 53.05840)

Grade: 9-12

Term: Year/1.0 Credit

Prerequisites: Beginning and Intermediate Orchestra as well as Audition

Description: Enhances level-three skills and provides further opportunities for advanced-level performers to increase performance skills and precision on orchestral stringed instruments. Covers performance and production, analysis and theoretical studies, historical and cultural contributions and influences, creative aspects of music and appreciation of music. Stresses self-paced progress and group experiences. Members will perform and may participate in All-State, District Honor Orchestra, and perform at GMEA Solo and Ensemble Festival.

Course: Beginning Mixed Chorus I (54.02110)

Grade: 9-12

Term: Year/1.0 Credit

Prerequisites: None

Description: Offers opportunities for beginning-level performers to increase performance skills and knowledge.

Course: Advanced Women's Chorus 1, 2, 3, 4 (54.02610, 54.02620, 54.02630 & 54.02640)

Grade: 9-12

Term: Year/1.0 Credit

Prerequisites: Successful completion of intermediate chorus and/or audition; courses must be taken in sequential order. Placement is audition based.

Description: Enhances level-three skills and provides further opportunities for advanced-level female performers to increase performance skills and knowledge in all-female choral singing. Covers performance and production, analysis and theoretical studies, historical and cultural contributions and influences, creative aspects of music and appreciation of music. Stresses self-paced progress and group experiences. Provides opportunities for advanced level young women to develop performance skills and knowledge in all-female singing.

Course: *Advanced Men's Chorus 1, 2, 3, 4 (54.02910, 54.02929, 54.02930, 54.02940)*

Grade: 9-12

Term: Year/1.0 Credit

Prerequisites: Successful completion of intermediate chorus and/or audition; courses must be taken in sequential order. Placement is audition based.

Description: Enhances level-three skills and provides further opportunities for advanced-level male performers to increase performance skills and knowledge in all-male choral singing. Covers performance and production, analysis and theoretical studies, historical and cultural contributions and influences, creative aspects of music and appreciation of music. Stresses self-paced progress and group experiences. Provides opportunities for advanced level young men to develop performance skills and knowledge in all-male singing.

Course: *Intermediate Music Technology (53.02220)*

Grade: 10-12

Term: Year/1.0 Credit

Prerequisites: Music Appreciation and/or Contemporary Music Studies

Description: Students will manipulate MIDI protocol, create multi-track compositions using sequencing software, and create song accompaniments.

Course: *Advanced Music Technology (53.02230)*

Grade: 10-12

Term: Year/1.0 Credit

Prerequisites: Music Appreciation and/or Contemporary Music Studies, Intermediate Music Technology

Description: Students will compose and arrange songs using notation software, analyze formal elements of music, and learn correct operational techniques for sound reinforcement systems.

Course: *Beginning Guitar Techniques 1 (53.08410)*

Grade: 9-12

Term: Year/1.0 Credit

Prerequisites: None

Description: Introduces basic guitar techniques. Covers performance and production, analysis and theoretical studies, historical and cultural contributions and influences, creative aspects of music and appreciation of music. Provides an individualized setting.

Course: *Intermediate Guitar Techniques 1 (53.08510)*

Grade: 9-12

Term: Year/1.0 Credit

Prerequisites: Beginning Guitar

Description: Offers opportunities for intermediate-level performers to increase performance skills and knowledge in guitar techniques. Covers performance and production, analysis and theoretical studies, historical and cultural contributions and influences, creative aspects of music and appreciation of music. Provides an individualized setting.

Course: *Advanced Guitar Techniques 1 (53.08610)*

Grade: 10-12 however some 9th graders depending on ability level

Term: Year/1.0 Credit

Prerequisites: Beginning and Intermediate Guitar

Description: Enhances level-three skills and provides advanced-level performers further opportunities for individualized study in guitar techniques. Covers performance and production, analysis and theoretical studies, historical and cultural contributions and influences, creative aspects of music and appreciation of music.

SOCIAL STUDIES ELECTIVES

Course: *World Geography; Honors or Regular (45.07110)*

Grade: 9-12

Term: *Semester/.5 Credit*

Prerequisite: None

Description: Provides students with an introduction to both physical and cultural geography. After an introduction to geography, students study each major region of the world. For each region, students learn about the importance of the physical geography and its impact on the region's development. Students study cultural aspects of each region and examine the influence of geography on the cultural development of each region.

Course: *Sociology (45.03100) PAIRED WITH PSYCHOLOGY*

Grade: 11-12

Term: *Semester/.5 Credit*

Prerequisites: American Government/Civics, and World History

Description: Investigates principles of sociology, the individual in groups, social institutions, social control and the use of research methods to examine social problems. Integrates and reinforces social studies skills.

Course: *Psychology (45.01500) PAIRED WITH SOCIOLOGY*

Grade: 11-12

Term: *Semester/.5 Credit*

Prerequisites: American Government/Civics, and World History

Description: This one-semester study of Psychology emphasizes the systematic and scientific study of human behavior. It is not the pursuit of various opinions that have no basis in careful observation and experimentation. The course is divided into seven major units of study. They are: (1) Approaches to Psychology, (2) Brain, Body and Awareness, (3) Cognitive Processes, (4) Human Development (5) Personality, Adjustment and Conflict, (6) Psychological Disorders, and (7) Socio-cultural Influences and Self. This course is designed to provide a balance between theoretical psychology and practical psychology.

Course: *AP Psychology (45.01600)*

Grade: 12th however some 11th graders are allowed depending on their social science abilities

Term: *Year/1.0 Credit*

Prerequisites: American Government/Civics, World History, and U.S. History (Approval Required)

Description: Conforms to College Board topics for the Advanced Placement Introductory Psychology Examination. Covers methods, approaches and the history of psychology as a science, biological bases of behavior, sensation and perception, states of consciousness, learning, cognition, motivation and emotion, developmental psychology, personality, testing and individual differences, abnormal psychology, treatment of psychological disorders and social psychology.

Course: *AP European History (45.08400)*

Grade: 12 however some 11th graders are allowed depending on their social science abilities

Term: *Year/1.0 Credit*

Prerequisites: American Government/Civics, World History and U.S. History (Approval Required)

Description: Conforms to College Board topics for the Advanced Placement European History Examination. Covers intellectual and cultural history, political and diplomatic history and social and economic history.

Course: *AP Government/Politics: US or Comparative (45.05200 or 45.05300)*

Grade: 11 -12

Term: Year/1.0 Credit

Prerequisites: American Government/Civics, World History, and U.S. History (US History can be taken concurrently; Approval Required)

Description: Conforms to College Board topics for the Advanced Placement United States Government and Politics Examination. Covers federalism, separation of powers, influences on the formulation and adoption of the Constitution, political beliefs, political parties and elections, interest groups, institutions and policy processes and civil liberties and civil rights. Then for Comparative Government, it also conforms to College Board topics for the Advanced Placement Comparative Government and Politics Examination. Covers sources of public authority and political power, society and politics, citizen and state, political framework, political change and an introduction to comparative politics.

Biomedical Sciences Pathway

Course: *Intro to Healthcare Science (25.52100)*

Grade: 9-10

Term: Year/1.0 credit

Prerequisites: None

Description: Students wishing to pursue a career in the Healthcare Industry will receive initial exposure to healthcare science skills and attitudes applicable to healthcare including the concepts of health, wellness, and preventive care. The changes in healthcare delivery systems and the subsequent impact on healthcare delivery for individual consumers is explored and evaluated. Medical terminology, microbiology, and basic life support skills are emphasized, as well as, the ethical and legal responsibilities of today's healthcare provider. Academics and other related sciences are integrated throughout the course. The students are required to meet both national and intrastate professional guidelines as designated by applicable regulatory agencies such as the Occupational Health and Safety Administration (OSHA) and Center for Disease Control (CDC). Students may participate in opportunities for professional networking and the enhancement of their vocational portfolios by receiving recognition for their accomplishments through a variety of venues related to vocational student organizations – Health Occupations Students of America (HOSA), Vocational Industrial Clubs of America (VICA), as well as, other external agencies such as the American Red Cross and the American Heart Association. This course is considered broad-based with high impact and is a prerequisite for all Healthcare Science Technology Education courses.

Course: *Essentials of Healthcare (25.44000)*

Grade: 10-11

Term: Year/1.0 credit

Prerequisites: Intro to Healthcare Science

Description: Examines the interactions of body systems and explores identity, communication, power, movement, protection, and homeostasis. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration. Exploring science in action, students build organs and tissues on a skeletal manikin, work through interesting real world cases and often play the role of biomedical professionals to solve medical mysteries. Students continue with the development of individual career portfolios utilizing postsecondary program research, employability skills, and /or work based learning and may receive recognition for their accomplishments through a variety of venues locally, regionally, and nationally such as the American Red Cross, American Heart Association, Health Occupations Students of America (HOSA), and the National Consortium on Health Science and Technology Education (NCHSTE). Upon completion of this course and pre-requisites students who successfully master these standards will be eligible to sit for a National Certificate of Proficiency or Mastery, issued in partnership between NCHSTE and National Occupational Competency Testing Institute (NOCTI).

Course: Patient Care Fundamentals & Patient Care Tech (25.43600, 25.44900)

Grade: 11-12

Term: Year/1.0 credit

Prerequisites: Intro to Healthcare Science & Essentials of Healthcare

Description: The course is designed to offer students (preferably upper classmen -juniors or seniors) the opportunity to become effective and efficient multi-skilled healthcare providers as they develop a working knowledge of each of the major departments of the average acute care setting/hospital, including but not limited to: Orthopedics, Cardiology, Diagnostic Imaging, MedSurg, Gastroenterology, Urology, and Customer Care Services. Students focusing on a career path in medicine (Pre-Med) or on a career in one of the ancillary departments noted above will apply classroom/lab knowledge and skills in the clinical setting as they participate in direct client care. The work-based learning strategy appropriate for this course is a minimum 40-hour clinical practicum. *When taken as the fourth course in the Biomedical Pathway, students successfully completing may be eligible to sit for Patient Care Technician Certification.*

Engineering Pathway

Course: Foundations of Engineering and Technology (21.42500)

Grade: 9-10

Term: Year/1.0 credit

Prerequisites: None

Description: Exposes students to the design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards and technical documentation. Students use 3D solid modeling design software to help them solve proposed problems and learn how to document their work and communicate solutions to peers and members of the professional community. Foundations of Engineering and Technology is the introductory course for all Georgia Engineering and Technology Education pathways. This course also provides students with opportunities to develop fundamental technological literacy as they learn about the history, systems, and processes of invention and innovation.

Course: Engineering Concepts (21.47100)

Grade: 10-11

Term: Year/1.0 credit

Prerequisites: Foundations of Engineering and Technology

Description: Designed to further the development of student knowledge and skills in engineering and related mechanical design drafting areas. Emphasis is placed on 3-D working and assembly drawings including rendering and animation. Engineering Concepts is second course in the engineering pathway. This course introduces students to the fundamental principles of engineering. Students learn about areas of specialization within engineering and engineering design, and apply engineering tools and procedures as they complete hands-on instructional activities.

Course: Engineering Applications (21.47200)

Grade: 11-12

Term: Year/1.0 credit

Prerequisites: Foundations of Engineering and Engineering Concepts

Description: Exposes students to major concepts they'll encounter in a postsecondary engineering course of study. Employs engineering and scientific concepts in the solution of engineering design problems. Develops problem-solving skills and applies the knowledge of research and design to create solutions to various challenges, documenting student work and communicating solutions to peers and members of the professional community. Engineering Applications is the third course in the engineering pathway. Students have opportunities to apply engineering design as they develop a solution for a technological problem. Students use applications of mathematics and science to predict the success of an engineered solution and complete hands-on activities with tools, materials, and processes as they develop a working drawings and prototypes.

Small Business Development Pathway

Course: *Intro to Business and Technology (07.44130)*

Grade: 9-10

Term: Year/1.0 Credit

Prerequisite: None

Description: This is the foundation course for the Small Business Development Career Pathway. It is also appropriate for students enrolled in any career pathway who plan to own and operate their own business. The course will help students build a strong knowledge base and develop management skills as they study forms of business ownership, functions of management, budgeting and finance, technology, communications, legislation, leadership and teamwork, marketing, and economics. Mastery of these standards through project-based learning and leadership development activities of the Career and Technical Student Organizations will help prepare students with a competitive edge for the global marketplace.

Course: *Legal Environment of Business (06.41500)*

Grade: 10-11

Term: Year

Prerequisite: Intro to Business and Technology

Description: Legal Environment of Business is the second course in the Small Business Development Career Pathway. This course concentrates on the legal aspects of business ownership and management. Legal issues will include contracts, sales, consumer law, agency and employment law, personal and real property, risk management, environmental law, and government effects on business. The impact of ethics on business operations will be studied. International business principles are infused in the standards for Legal Environment of Business. Mastery of these standards through project-based learning and leadership development activities of Future Business Leaders of America (FBLA) will help prepare students with a competitive edge for the global marketplace.

Course: *Entrepreneurship (06.416000)*

Grade: 10-11

Term: Year/1.0 Credit

Prerequisite: Intro to Business & Technology and/or Marketing Principles; Legal Environment of Business and/or Special Permission.

Description: Entrepreneurship is the third course in the Small Business Development Career Pathway. This course concentrates on the management skills necessary for successful business operation. Students will study management strategies for developing and implementing business plans; structuring the organization; financing the organization; and managing information, operations, marketing and human resources. International business principles are infused in the standards for Entrepreneurial Ventures. An integral component of the Entrepreneurship course is a school-based or community-based entrepreneurial venture that will engage students in the creation and management of a business and the challenges of being a small business owner. Mastery of these standards through project-based learning and leadership development activities of Future Business Leaders of America (FBLA) will help prepare students with a competitive edge for the global marketplace. There's also a partnership with GA Pacific Company whereby a project based curriculum is constructed from business and industry driven concepts. See Mr. Pilson for further information as this is a Business & Entrepreneurship selective course.

Sports & Entertainment Marketing Pathway

Course: Marketing Principles (08.47400)

Grade: 9-10

Term: Year/1.0 Credit

Prerequisite: None

Description: Marketing Principles is the foundation course for all pathways in Marketing Education. Marketing Principles addresses all the ways in which marketing satisfies consumer and business needs and wants for products and services. Students develop an understanding of the functions of marketing and how these functional areas affect all businesses. They learn basic marketing concepts and the role of marketing in our economy. Students also develop skills in applying economic concepts to marketing, distribution and logistics; marketing information management; finance in marketing; product/service planning; pricing mixes; promotional strategies; and personal selling. In order to increase the number of application experiences, students should participate in work-based learning activities and the student organization, DECA, an association of marketing students. It is highly advantageous for students to participate in a school-based enterprise where available.

Course: Introduction to Sports & Entertainment Marketing (08.47800)

Grade: 10-11

Term: Year/1.0 credit

Prerequisite: Marketing Principles

Description: This course introduces the student to the major segments of the sports and entertainment industry and the social and economic impact it has on the local, state, national, and global economies. The products and services offered to consumers and the impact of marketing on these products and services are examined. Units include: Business Fundamentals, Product Mix, Product Knowledge, Product/Service Management, Business Regulations, Interpersonal Skills, Selling, Marketing-Information Management, Economics, Distribution, Pricing, Advertising, Publicity/Public Relations, Sales Promotion, Business Risks, and Organization. To increase the number of application experiences, students should participate in work-based learning activities and the student organization, DECA, an association of marketing students. It is highly advantageous for students to participate in a school-based enterprise where available.

Course: Advanced Sports & Entertainment Marketing (08.48500)

Grade: 11-12

Term: Year/1.0 credit

Prerequisite: Marketing Principles, Introduction to Sports & Entertainment Marketing, or Special Permission.

Description: This course provides students opportunities to develop managerial and analytical skills and deepen their knowledge in sports/entertainment marketing. Topical units include: Marketing-Information Management, Selling, Publicity/Public Relations, Sales Promotion, Management of Promotion, Product Mix, Pricing, Positioning, and Marketing Planning. Project-based instruction, together with a variety of work-based learning activities, should be incorporated in this course to provide real-world application. Competitive event standards for the co-curricular student organization, DECA, an association of marketing education students are integral components of the curriculum's core employability and technical-skills standards. Therefore, DECA competitive events should be incorporated with other instructional strategies developed for the course.

Course: Work-Based Learning Marketing/Business (08.71140)

Grade: 12

Term: Year/1.0 Credit

Prerequisite: Must have completed at least 2 years or 2 credits in a respective pathway, must be employed in a field that reflects the students pathway.

Description: Enhances work-site learning experiences for marketing students. Requires supervision by the marketing instructor, training plan, and training agreement evaluated by the employer and the instructor. Interested seniors must interview with Dr. Dunton for approval.

Fashion Marketing Pathway

Course: Marketing Principles (08.47400)

Grade: 9-10

Term: Year/1.0

Prerequisite: None

Description: Marketing Principles is the foundational course for all pathways in Marketing Education. Marketing Principles addresses all the ways in which marketing satisfies consumer and business needs and wants for products and services. Students develop an understanding of the functions of marketing and how these functional areas affect all businesses. They learn basic marketing concepts and the role of marketing in our economy. Students also develop skills in applying economic concepts to marketing, distribution and logistics; marketing information management; finance in marketing; product/service planning; pricing mixes; promotional strategies; and personal selling. In order to increase the number of application experiences, students should participate in work-based learning activities and the student organization, DECA, an association of marketing students. It is highly advantageous for students to participate in a school-based enterprise where available.

Course: Introduction to Fashion Marketing (08.41300)

Grade: 9-12

Term: Year/1.0 credit

Prerequisites: Marketing Principles

Description: This course will introduce the student to the fashion industry including the fundamentals of fashion marketing, types of businesses involved in the industry, and the array of career opportunities available in fashion marketing. Students will develop skills in such areas as fashion economics, marketing segmentation and target marketing, product selection and buying, and inventory systems. In order to increase the number of application experiences, students should participate in work-based learning activities and the student organization, DECA, an association for marketing students. It is also highly advantageous for students to participate in a school-based enterprise. Last it is recommended for students to enroll in the four levels Applied Design in conjunction with this particular course in order to obtain the practical and hands-on experience of creating clothes and manipulating fabrics.

Course: Advanced Fashion Marketing (08.41400)

Grade: 11-12

Term: Year/1.0 credit

Prerequisites: Marketing Principles, Intro to Fashion Marketing, or special permission.

Description: This course will deepen a student's understanding of the fashion industry where as they will explore the more concrete details of fashion design, retailing, fashion trends, types of businesses involved in the industry, and the array of career opportunities available in fashion marketing. It is the goal to elevate students' skills in such areas as fashion economics, marketing segmentation and target marketing, product selection and buying, and inventory systems. Students at this level are expected to play an integral role in the annual fashion show as either a senior designer or production manager. In order to increase the number of application experiences, students should participate in work-based learning activities and the student organization, DECA, An Association of Marketing Students. It is also highly advantageous for students to participate in a school-based enterprise. Last it is recommended for students to enroll in the four levels of Applied Design in conjunction with this particular course in order to obtain the practical and hands-on experience with creating clothes and manipulating fabrics.

AUDIO VIDEO AND TECHNOLOGY PATHWAY

Course: *Audio Video Technology & Film 1 (10.51810)*

Grade: 9-10

Term: Year

Prerequisites: None

Description: Students will gain hands-on experience in television production. Through a variety of video production experiences, students will learn the power of the medium, examine issues of fairness and objectivity, sharpen their critical thinking skills, exercise creativity, and gain an overall understanding of modern newsgathering techniques.

Course: *Audio Video Technology & Film 2 (10.51910)*

Grade: 10-11

Term: Year

Prerequisites: Audio Video Technology & Film 1

Description: Students will enhance their expertise in television production through a variety of video production experiences. Students will take leadership roles in the production and broadcast of *Grady News Network* (GNN) and/or *GameTime*. This course is designed to allow students to experience the workplace through management opportunities. Throughout the management course, the student will gain interpersonal skills, demonstrate work ethics, and work with various broadcasting processes related to the field of broadcast/video production. SkillsUSA, Georgia Scholastic Press Association, Technology Student Association (TSA), and the Student Television Network are examples of, but not limited to, appropriate organizations for providing leadership training and/or for reinforcing specific career and technical skills and may be considered an integral part of the instructional program. Skills learned in previous BVP courses are applicable to this course. Instructor approval of digital portfolio (as needed for satisfactory completion of BVP3) required prior to registration for this course.

Course: *Audio Video Technology & Film 3 (10.52010)*

Grade: 12

Term: Year

Prerequisites: Audio Video Technology & Film 2

Description: Students will enhance their expertise in television production through a variety of video production experiences. Students will take leadership roles in the production and broadcast of *Grady News Network* (GNN) and/or *GameTime*. This course is designed to allow students to experience the workplace through management opportunities. Throughout the management course, the student will gain interpersonal skills, demonstrate work ethics, and work with various broadcasting processes related to the field of broadcast/video production. SkillsUSA, Georgia Scholastic Press Association, Technology Student Association (TSA), and the Student Television Network are examples of, but not limited to, appropriate organizations for providing leadership training and/or for reinforcing specific career and technical skills and may be considered an integral part of the instructional program. Skills learned in previous BVP courses are applicable to this course. Instructor approval of digital portfolio (as needed for satisfactory completion of BVP3) required prior to registration for this course.

GRAPHIC DESIGN PATHWAY

Course: *Introduction to Graphics and Design (48.56100)*

Grade: 9-10

Term: Year/1.0 Credit

Prerequisites: None

Description: The goal of this course is to provide all students with an introduction to the principles of graphic communications and design and its place in the world. This course should also help students to use computers effectively in their lives, thus providing a foundation for successfully integrating their own interests and careers with the resources of a technological society. In this course, high school students can acquire a fundamental understanding

of the graphic communications and design world. They can learn the theories behind creating aesthetically pleasing designs and how to work with consumers. Exposure to career possibilities and discussion of ethical issues relating to graphic communications and design should also be important threads in this course. Graphic Communications is defined as the processes and industries that create, develop, produce, and disseminate products utilizing or incorporating words or pictorial images to convey information, ideas, and feelings. GC products facilitate learning, enjoyment, motivation, and commerce. Graphic Communications includes the family of market segments embracing the technologies of printing, publishing, packaging, electronic imaging, and their allied industries; they are often referred to as the graphic arts, print, or imaging industries. Graphic design is the process of communicating visually using typography and images to present information. Graphic design practice embraces a range of cognitive skills, aesthetics, and crafts, including typography, visual arts, and page layout. Like other forms of design, graphic design often refers to both the process (designing) by which the communication is created and the products (designs) which are generated.

Course: *Graphic Design and Production (48.56200)*

Grade: 11

Term: Year

Prerequisites: Introduction to Graphics and Design

Description: Focuses on the procedures commonly used in the graphic communication and design industries. Students will gain experience in creative problem solving and the practical implementation of those solutions across multiple areas of graphic communications. Investigates the historical development of graphic design and its function in contemporary society. Stresses the use of the computer as a major design tool.

Course: *Advanced Graphic Output Processes (48.57000)*

Grade: 11-12

Term: Year/1.0 Credit

Prerequisites: Introduction to Graphics and Design as well as Graphic Design and Production

Description: Enhances level-two skills through in-depth specialization; offers opportunities for apprenticeship and continuing education options. When available, offers students the opportunity to complete industry certification. Encourages professional development and industry interaction through SkillsUSA. Students gain experience in successfully completing the output processes of various projects in an increasingly independent manner from direct teacher control. Students also learn to manage the output and completion process as a whole including customer relations management, printing, finishing, and binding. Students accumulate work samples that will constitute their personal portfolio. Upon successful completion of the course, students are prepared to move into employment or a post-secondary education environment where self-motivation and a high level of skill are expected.

APPLICATION TO LAW PATHWAY

Course: *Introduction to Law, Public Safety, Corrections, and Security (LPSCS) (43.45000)*

Grade: 9-10

Term: Year/1.0 Credit

Prerequisites: None

Description: Students wishing to pursue a career in Law and Justice will examine the basic concepts of law related to citizens' rights and officers' responsibilities to maintain a safe society. This is the pre-requisite for all other courses within the Career Cluster. This course provides students with career focused educational opportunities in various LPSCS fields. It examines the basic concepts of law related to citizens' rights and the responsibilities, and students will receive instruction in critical skill areas including: communicating with diverse groups, conflict resolution, ethics, CERT (Citizens Emergency Response Training, or similar program), basic firefighting, report writing, terrorism, civil and criminal law. Career planning and employability skills will be emphasized.

Course: Essentials of Legal Services (43.45400)

Grade: 10-11

Term: Year/1.0 Credit

Prerequisite: Introduction (LPSCS), and Security

Description: Essentials of Legal Services is the second course for the Legal Services pathway. This course provides an overview of the judicial process and role in our constitutional system of government. The major focus of the course is on constitutional rights of citizens and the corresponding duties of governmental officials. Students will learn about the role of the United States Supreme Court as the final arbiter of constitutional rights and responsibilities, as well as learning about the legal process in both criminal and civil cases. Students will learn about the various participants and the legal and ethical roles in criminal and civil cases. Students will not only understand these legal concepts, but will be able to apply their knowledge to various scenarios and defend their choices, decisions, and actions. Employability skills will be integrated into the tasks, activities, and projects to demonstrate skills required in legal services careers. The pre-requisites for this course are Introduction to Law, Public Safety, and Corrections and Security.

Course: Applications of Law (43.45500)

Grade: 11-12

Term: Year

Prerequisite: Introduction to (LPSCS) and Essentials of Legal Services

Description: Applications of Law is the third course for the Legal Services/Applications of Law pathway. This course focuses on substantive law, both criminal and civil law, as well as the application of the law to factual scenarios. Students will learn the basic concepts of criminal law in order to analyze factual scenarios and apply criminal law to justify an appropriate criminal charge and the presence of possible defenses. Students will also learn basic civil law, including, torts, contracts, real property, family law, and immigration law. Students will not only understand the foundations of civil law, but will learn to use the IRAC (Issue, Rule, Analysis, and Conclusion) method of legal analysis and making cogent and persuasive legal arguments. Students will develop critical-thinking skills necessary to apply the law to various factual situations and to defend choices, decisions, and actions. Employability skills will be integrated into the tasks, activities, and projects to demonstrate skills required in legal services careers. The prerequisites for this course are Introduction to Law, Public Safety, Corrections and Security, and Essentials of Legal Services.

JROTC PATHWAY

All JROTC cadets must adhere to JROTC grooming, uniform and conduct standards to remain enrolled. They are responsible for maintaining the Army uniform and wearing it correctly when required. The approval of the Senior Army Instructor (SAI) is required to enroll in JROTC above LET 1.

ROTC Chair: Charles Johnson

Course: JROTC/Leadership Education and Training - LET 1(28.03100)

Grade: 9-12

Term: Year/1.0 Credit

Prerequisites: None

Description: This course includes classroom instruction and laboratory instruction in the history, customs, traditions and purpose of Army JROTC. It contains the development of basic leadership skills to include leadership principles, values and attributes. Development of core skills students should master, an appreciation for diversity, and active learning strategies are integrated throughout the course. Emphasis is placed on writing skills and oral communications techniques. Financial planning is introduced. Physical fitness, diet, nutrition, healthy lifestyles and awareness of substance abuse and prevention and basic first aid measures are additional content areas. An overview of geography and the globe are incorporated. Also included is a study of the U.S. Constitution, Bill of Rights, responsibilities of U.S. citizens and the federal justice system. The performance standards in this course are based on the performance standards identified in the curriculum for the US Army JROTC. Successful completion of

at least three units of credit in the Army JROTC program will qualify the student for advanced placement in a college ROTC program or accelerated promotion in the military service.

Course: JROTC/Leadership Education and Training - LET 2 (28.03200)

Grade: 10-12

Term: Year

Prerequisites: JROTC 1

Description: This course includes classroom instruction and laboratory instruction expanding on skills taught in LET 1. This course introduces equal opportunity and sexual harassment. It provides instruction on leadership styles and practical time to exercise leadership theories as well as the basic principles of management. It provides self-assessments that help students determine their skill sets and opportunities to teach using accepted principles and methods of instruction. It emphasizes community projects to assist in drug prevention efforts, includes dietary guidelines and fitness and introduces map-reading skills. It discusses the significant events that helped shape and develop the Constitution and government and teaches the role of political parties in the election process. The performance standards in this course are based on the performance standards identified in the curriculum for the US Army JROTC. Successful completion of at least three units of credit in the Army JROTC program will qualify the student for advanced placement in a college ROTC program or accelerated promotion in the military service.

Course: JROTC/Leadership Education and Training - LET 3 (28.03300)

Grade: 11-12

Term: Year/1.0 credit

Prerequisites: JROTC 1 and 2 and SAI approval

Description: This course includes classroom instruction and laboratory instruction expanding on the skills taught in LET 1 - 2. This course allows cadets to investigate the interrelationships of the services while it continues to build their leadership development and decision-making skills. It includes negotiation skills and management principles. It emphasizes staff procedures and provides leadership situations and opportunities to handle various leadership situations as well as preventing violence and managing anger. The research, identification, planning, and execution of service learning activities are included. This course gives cadets the opportunity to apply basic concepts of career exploration strategies and planning. It teaches how to create a career portfolio and plan for college or work. Financial management principles are studied further. Skills for orienteering and/or land navigation are developed. Includes studies in the federal judicial system and how historical events shaped social systems. The performance standards in this course are based on the performance standards identified in the curriculum for the US Army JROTC. Successful completion of at least three units of credit in the Army JROTC program will qualify the student for advanced placement in a college ROTC program or accelerated promotion in the military service.

Course: JROTC/Leadership Education and Training - LET 4 (28.03400)

Grade: 12

Term: Year/1.0 credit

Prerequisites: JROTC 1, 2, 3 and SAI approval

Description: This course includes classroom instruction and laboratory instruction expanding on the skills taught in LET 1-3. It focuses on creating a positive leadership situation, negotiating, decision-making, problem solving, planning, team development, project management, and mentoring. It provides the opportunity to demonstrate leadership potential in an assigned command or staff position within the cadet battalion organizational structure. It includes how to use emotional intelligence in leadership situations as well as how to maintain a positive attitude. It provides instruction on etiquette, daily planning, financial planning, and careers. It includes requirements for the practical application of leadership duties. It emphasizes physical fitness through healthy individual and group competition. The interactions between groups of people and how they affect the area's cultural, economic, and political characteristics are discussed. It explores various methods on determining distance, direction, and locations as well as environmental issues. Concepts of democracy and freedom and how to influence local governments are discussed. The performance standards in this course are based on the performance standards identified in the curriculum for the US Army JROTC. Successful completion of at least three units of credit in the Army JROTC program will qualify the student for advanced placement in a college ROTC program or accelerated promotion in the military service.

HEALTH AND PHYSICAL FITNESS

One semester of health and one semester of personal fitness are required for graduation. Another semester of an elective PE is required for graduation unless a student exempts it with two or more Athletic Programs or unit of Advanced Band course. Three units of credit in Junior Reserve Officer Training Corps (JROTC) shall satisfy the one-half required unit of health and the one-half required unit of personal fitness if the courses include comprehensive health and physical education requirements specified in state rule 160-4-2-.12 Comprehensive Health and Physical Education Program Plan. JROTC students must complete the one-half required unit of elective physical education.

Athletic Director: Myss Johnson-Jelks

Course: Personal Fitness (36.05100)

Grade: 9-12

Term: Semester/.5 credit

Prerequisites: None

Description: Provides instruction in methods to attain a healthy level of physical fitness. Covers how to develop a lifetime fitness program based on a personal fitness assessment and stresses strength, muscular endurance, flexibility, body composition and cardiovascular endurance. Includes fitness principles, nutrition, fad diets, weight control, stress management, adherence strategies and consumer information; promotes self-awareness and responsibility for fitness. **Required for graduation.**

Course: Team Sports & Lifetime Sports (36.04100, 36.04200)

Grade: 9-12

Term: Semester/.5 credit

Prerequisites: None

Description: Team Sports provides opportunities to officiate and to enhance skills in team sports strategies. Lifetime Sports refines skills and explores the technical aspects of sports over the span of someone's lifetime.

Course: Recreational Games (36.02700)

Grade: 9-12

Term: Semester/.5 credit

Prerequisites: None

Description: Introduces recreational games suitable for lifetime leisure activities. Provides further development of skills and exploration into technical aspects of games played for recreational purposes. May exempt this course with a varsity sport, marching band or JROTC.

Course: Weight Training (36.05400)

Grade: 9-12

Term: Semester/.5 credit

Prerequisites: None

Description: Introduces weight training; emphasizes strength-development training and proper lifting techniques. May exempt this course with a varsity sport, marching band or JROTC.

Course: Advanced Personal Fitness; YOGA (36.06100)

Grade: 9-12 (preferably 10-12)

Term: Semester/.5 credit

Prerequisites: None

Description: Principles of Yoga are taught. Enhances strength and muscular endurance, flexibility and cardiovascular endurance. Emphasizes self-management and adherence strategies. May exempt this course with a varsity sport, marching band or JROTC.

Course: Physical Conditioning & Advanced Physical Conditioning (36.05200, 36.06200)

Grade: 10-12

Term: Year/.5 credit

Prerequisites: None for Physical Conditioning but Weight Training for Advanced Physical Conditioning

Description: Provides opportunities for students to participate in a variety of activities to enhance flexibility, muscular strength and endurance, cardiovascular endurance and body composition.

Course: Health (17.01100)

Grade: 9-12

Term: Semester/.5 credit

Prerequisites: None

Description: Explores the mental, physical and social aspects of life and how each contributes to total health and well-being. Emphasizes safety, nutrition, mental health, substance abuse prevention, disease prevention, environmental health, family life education, health careers, consumer health, and community health. **Required for graduation.**

SPECIAL EDUCATION

Special Education Chair: Khristal Pace

Course: Study Skills (35.06100)

Grade: 9-12

Term: Year/1.0 credit

Prerequisites: None

Description: To be used at the discretion of the school and district.

Course: Social Skills (35.05100)

Grade: 9-12

Term: Year/1.0 credit

Prerequisites: None

Description: This course addresses the social and emotional needs of students. Areas stressed are problem- solving, peer relations, and conflict resolution.

GIFTED EDUCATION

Gifted Education Chair: Andrew Nichols

Course: Gifted Mentorship 1 (70.211)

Grade: 11-12

Term: Semester/ .5 Credit

Prerequisites: Only students who are eligible for the Gifted & Talented Program may enroll in this course.

Description: This is a one semester course which seeks to prepare gifted and talented students for professional internships. Course content includes self-management skills (proactivity, time management, goal setting, ect.), resume writing, interview skills, and career planning.

Gifted Internship 1 & 2 (70.221 & 70.222)

Grade: 11-12

Term: Semester/ .5 Credit

Prerequisites: Successful completion of Gifted Mentorship 1. Only students who are eligible for the Gifted & Talented Program may enroll in this course.

Description: This is a one semester course in which students are placed in professional internships where they gain exposure to the norms of the professional working world. Interns may leave campus during the last period of the day to travel to their internship to log a minimum of 20 internship hours in various professional settings. Interns must identify goals for their internship and complete a capstone presentation that demonstrates progress towards achieving these goals in their internship.