

**2018-19 COURSE OFFERINGS CATALOG  
WHEELER HIGH SCHOOL**

<b>ENGLISH LANGUAGE ARTS</b>			
<b>COURSE #</b>	<b>COURSE NAME</b>	<b>DESCRIPTION</b>	<b>QUALITY POINTS</b>
23.0310011	<b>WRITER'S WORKSHOP Y</b>	This 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 <del>students to utilize the writing process to write independently to improve their writing</del>	
23.0828011	<b>READ 180</b>	Ninth or Tenth Grade English Elective Course designed for students who need to improve their reading skills. Students will focus on reading, including comprehension and writing skills.	
23.0610011	<b>NINTH GRADE LIT/COMP Y</b>	This is a college prep course that integrates composition, grammar, and literature. It covers the writing process; the development of vocabulary, speaking, listening, and research skills are also be included.	
23.0610007	<b>HONORS NINTH GRADE LIT/COMP</b>	This course is an accelerated college prep course designed for the student who has a serious interest in the interpretation of literature. It integrates writing, grammar and usage, speaking and listening. It includes reading a variety of literary genres short stories, novels, poetry, drama, and nonfiction. It also emphasizes oral and written response to literature. Students in this course write and revise toward an end-product in the form of a final portfolio and presentation of their semester-long work.	0.5 QP
23.0630011	<b>WORLD LIT/COMP Y</b>	This course focuses on a study of World Literature; the students develop an understanding of chronological context and the relevance of period structures in literature within world cultures. A focus is to explore the ways the work's place of origin affects its structure and how the chronology of a literary work affects its meaning. The students develop an understanding of literature as both a culture's product and a culture-bearer. An exploration of commonalities and differences among works of literature from different times and places in the world is a major component. The students will read across the curriculum to develop academic and personal interests in different subjects. Depending on which grade level this course is taught, the teacher will follow strands from the Georgia Performance Standards for that grade level for composition, conventions, and listening, speaking, and viewing.	

<p>23.0630003 23.0630000 (A) - Fall 23.0630001 (B) - Spring</p>	<p><b>HONORS WORLD LIT/COMP Y</b></p>	<p>This course will survey representative selections from those writers/cultures (excluding British and American) of Sumerian, Egyptian, and Hebrew literature through literature of the contemporary world and prepare the student for specific writing experiences such as literary analysis and exposition. Literary terms, vocabulary study, composition techniques, and parallel reading will be incorporated. An emphasis will be placed on reading, writing, speaking, and research elements corresponding to Georgia Performance Standards. Students will thematically study, analyze, interpret, and critique various genres of literature and other media based on the historical and cultural context of the author and his/her culture. Formal writing will include a research paper which will be connected to the approved Senior Project topic.</p>	<p>0.5 QP</p>
<p>23.0510011</p>	<p><b>AMERICAN LIT/COMP Y</b></p>	<p>This course will survey American works and authors from the new land through contemporary society. This course will prepare the student for specific writing experiences such as exposition, analysis of literature, and literary criticism as well as provide speaking and listening opportunities, vocabulary development, research skills, and test-taking strategies.</p>	
<p>23.0510003</p>	<p><b>HONORS AMERICAN LIT/COMP Y</b></p>	<p>This is an accelerated college- prep class that emphasizes careful reading and interpretation of literary selections. The course will survey American works and authors from the new land through contemporary society and will prepare the student for specific writing experiences such as exposition, analysis of literature, and literary criticism as well as provide speaking and listening opportunities, vocabulary development, research skills, and test-taking strategies.</p>	<p>0.5 QP</p>
<p>23.0530095 23.0530092 (A) - Fall 23.0530093 (B) - Spring</p>	<p><b>AP LANGUAGE/AM LIT HONORS Y</b></p>	<p>This is a rigorous college-level course that emphasizes critical thinking, reading, and writing through the study and discussion of expository, analytical, and argumentative non-fiction. Each semester is designed as an accelerated and enriching experience in analytical and critical thinking. Students are required to read eight books in a semester class. Much of the required reading is individual homework and the student will be required to read multiple chapters and complete multiple assignments PER NIGHT. In addition, there is an in-class, handwritten AP-type essay EACH WEEK. AP Language/Comp is a rigorous, College Board approved and endorsed college-level class that pre-supposes the student is proficient in composition. It is geared to the student who aspires to take the AP exam. Offered as alternating block with AP US History, as a Single-block Course, or as an alternating block with another course, i.e. music</p>	<p>1.0 QP</p>

23.0520011	<b>BRITISH LIT/COMP Y</b>	This course focuses on the study of British literature, writing modes and genres, and essential conventions for reading, writing, and speaking. The students develop an understanding of chronological context and the relevance of period structures in British literature. The students develop an understanding of the ways the period of literature affects its structure and how the chronology of a work affects its meaning. The students encounter a variety of informational and literary texts and read texts in all genres and modes of discourse. Reading across the curriculum develops the students' academic and personal interests in different subjects. While the continued focus is expository writing in British literature, the student will also demonstrate competency in a variety of writing genres: narrative, persuasive, and technical. The students will engage in research, the impact that technology has on writing, timed writing, and the writing process. Instruction in language conventions will occur within the context of reading, writing, and speaking, rather than in isolation. The students demonstrate an understanding of listening, speaking, and viewing skills for a variety of purposes.	
23.0520003 Y	<b>HONORS BRITISH LIT/COMP Y</b>	This course is an accelerated college-prep class designed for the student who has a serious interest in interpreting literature. Written critical analysis of literature is a major component of this course. Students will study selected British Writers and works from the Anglo-Saxon Age through the Modern Period. Grammar, vocabulary, reading, speaking, listening, and research will also be included in this semester's work.	0.5 QP
23.0650095 23.0650092 (A) - Fall 23.0650093 (B) - Spring	<b>AP LIT/COMP Y</b>	Advanced Placement Literature and Composition is a college-level course that focuses on the reading and analysis of literary works and the writing of critical essays. Each semester is designed as an accelerated and enriching experience in analytical and critical thinking. Students will be required to read from 5-8 challenging novels in a semester class. Much of the required reading is individual homework, and the student will be required to read multiple chapters PER NIGHT. In addition, there is at least one in-class, handwritten AP-type essay per week. AP Literature/Comp is a rigorous College Board approved and endorsed college-level class. It also pre-supposes that a student is proficient in composition. It is geared to the student who aspires to take the AP exam.	1.0 QP

**MATH**

<b>COURSE #</b>	<b>COURSE NAME</b>	<b>DESCRIPTION</b>	<b>QUALITY POINTS</b>
27.0990011	<b>GSE ALGEBRA I</b>	GSE Algebra I is the first course in a sequence of three required high school courses designed to ensure career and college readiness. The course represents a discrete study of algebra with correlated statistics applications and will emphasize both algebra and numeracy in a variety of contexts. Students will solve problems related to unit analysis, investigate properties of rational and irrational numbers and operations with polynomials, analyze linear, quadratic, and exponential functions, and summarize, represent, and interpret data on a single count or measurement variable and on two categorical and quantitative variables.	
27.0990003	<b>GSE HONORS Algebra I</b>	GSE Algebra I is the first course in a sequence of three required high school courses designed to ensure career and college readiness. The course represents a discrete study of algebra with correlated statistics applications and will emphasize both algebra and numeracy in a variety of contexts. Students will solve problems related to unit analysis, investigate properties of rational and irrational numbers and operations with polynomials, analyze linear, quadratic, and exponential functions, and summarize, represent, and interpret data on a single count or measurement variable and on two categorical and quantitative variables. The Honors version of GSE Algebra I will be taught with greater acceleration, depth of content, and required application of content.	0.5 QP
27.0481011	<b>GSE FOUNDATIONS OF ALGEBRA</b>	Foundations of Algebra will provide many opportunities to revisit and expand the understanding of foundational algebra concepts, will employ diagnostic means to offer focused interventions, and will incorporate varied instructional strategies to prepare students for required high school courses. The course will emphasize both algebra and numeracy in a variety of contexts including number sense, proportional reasoning, quantitative reasoning with functions, and solving equations and inequalities. The course is composed of five modules including the the first two units of GSE Algebra 1 - Unit 1: Relationships between Quantities and Expressions and Unti 2: Reasoning with Linear Equations and Inequalities.	
27.0991011	<b>GSE GEOMETRY</b>	GSE Geometry is the second course in a sequence of three required high school courses designed to ensure career and college readiness. Students will analyze and perform transformations in the coordinate plane, identify criteria for similarity and congruence of triangles, develop facility with geometric proofs, use the concepts of similarity and congruence to prove theorems involving lines, angles, triangles, and other polygons, investigate right triangle trigonometry and use the Pythagorean Theorem to solve problems, use theorems about circles to solve problems, use the concepts of distance, midpoint, and slope to verify algebraically geometric relationships of figures in the coordinate plane, and understand independence and conditional probability to interpret data.	

27.0998011	<b>GSE GEOMETRY SUPPORT</b>	The purpose of the GSE Geometry Support class is to address the needs of students who have traditionally struggled in mathematics by providing the additional time and attention they need in order to successfully complete the GSE Geometry mathematics course. GSE Geometry Support is an elective class that is taught during the fall semester to strengthen students' foundational mathematics skills and to preview some of the more challenging topics from GSE Geometry.	
27.0992011	<b>GSE ALGEBRA II</b>	GSE Algebra II is the third course in a sequence of three required high school courses designed to ensure career and college readiness. The course includes further exploration of quadratics, operations with complex numbers, rational exponents, inverse functions and composition of functions, solving polynomial equations and graphing polynomial functions, solving exponential equations using logarithms, graphing square root, cube root, and piecewise-defined functions, including step functions and absolute value functions, graphing rational functions and identifying zeros and asymptotes, and making inferences and justifying conclusions from sample surveys, experiments, and observational studies.	
27.0999011	<b>GSE ALGEBRA II SUPPORT</b>	The purpose of the GSE Algebra II Support class is to address the needs of students who have traditionally struggled in mathematics by providing the additional time and attention they need in order to successfully complete the Algebra II mathematics course. GSE Algebra II Support is an elective class that is taught concurrently with a student's regular GSE Algebra II mathematics class.	
27.0974011	<b>GSE PRE-CALCULUS</b>	GSE Pre-Calculus is a fourth mathematics course option for students who have completed GSE Advanced Algebra or Accelerated GSE Geometry B/Algebra II. Students will study the Unit Circle, graphing trigonometric functions, solving trigonometric equations, trigonometric identities, inverse trigonometric functions, applications of trigonometry to general triangles, proving and using addition, subtraction, double, and half-angle formulas, operations and applications with matrices, conic sections, vector operations, the probability of compound events, and using expected values to solve problems and make informed decisions.	
27.0880011	<b>STATISTICAL REASONING</b>	Statistical Reasoning is a fourth mathematics course option for students who have completed GSE Advanced Algebra or Accelerated GSE Geometry B/Algebra II. The course provides experiences in statistics beyond the GSE sequence of courses, offering students opportunities to strengthen their understanding of the statistical method of inquiry and statistical simulations. Students will formulate statistical questions to be answered using data, will design and implement a plan to collect the appropriate data, will select appropriate graphical and numerical methods for data analysis, and will interpret their results to make connections with the initial question.	
27.0991003	<b>GSE HONORS GEOMETRY</b>	The topics covered in Honors Geometry are the same as those in GSE Geometry with additional topics that include statements of logic, triangle points of concurrency, properties of special quadrilaterals, special right triangles, and surface area and volume of solids. The course is taught with greater depth and rigor than the GSE Geometry course.	0.5 QP

27.0992003	<b>GSE HONORS ALGEBRA II</b>	The topics covered in Honors Algebra II are the same as those in GSE Algebra II with additional topics that include solving absolute value equations and inequalities, solving rational equations and inequalities, slant asymptotes, binomial theorem, Pascal's triangle, and confidence intervals. The course is fast-paced and taught with depth and rigor.	0.5 QP
27.0994011	<b>GSE ACCELERATED ALGEBRA I/GEOMETRY A</b>	This is the first course in the 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. With increased depth and rigor, the course follows the six Units of GSE Algebra I and the first three Units of GSE Geometry that include transformations, similarity and congruence, and right triangle trigonometry with the additional topics of statements of logic, triangle points of concurrency, properties of special quadrilaterals, special right triangles, and surface area and volume of solids.	0.5 QP
27.0995003	<b>GSE ACCELERATED GEOMETRY B/ADVANCED ALGEBRA</b>	This is the second course in the 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. The course is rigorous and fast-paced and includes theorems involving circles, volume, algebraic geometric relationships of figures in the coordinate plane, and independence and conditional probability from GSE Geometry and all of the topics from GSE Algebra II in addition to solving absolute value equations and inequalities, solving rational equations and inequalities, slant asymptotes, binomial theorem, and Pascal's triangle.	0.5 QP
27.0977003	<b>GSE ACCELERATED PRE-CALCULUS</b>	GSE Accelerated Pre-Calculus is the third course in the 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. With increased depth and rigor, students will study the Unit Circle, graphing trigonometric functions, solving trigonometric equations, trigonometric identities, inverse trigonometric functions, applications of trigonometry to general triangles, proving and using addition, subtraction, double, and half-angle formulas, operations and applications with matrices, conic sections, advanced vector operations, parametric functions, the probability of compound events, and using expected values to solve problems and make informed decisions.	0.5 QP
27.0780003	<b>CALCULUS (NON-AP)</b>	This is a fourth year mathematics course option for students who have completed GSE Pre-Calculus, Accelerated GSE Pre-Calculus or its equivalent. It includes problem solving, reasoning and estimation, functions, derivatives, applications of the derivative, integrals, and application of the integral.	0.5 QP

27.0720095 (Y)	<b>AP CALCULUS AB</b>	This course conforms to the Advanced Placement requirements of the College Board and includes algebraic relations, limits, derivatives of algebraic and transcendental functions, applications of derivatives, basic integrations, applications and methods of integration, and differential equations and slope fields. It is a rigorous College Board approved and endorsed college-level class that pre-supposes that the student is proficient in mathematics. It is geared to the student who aspires to take the AP exam and is generally equivalent to at least one semester of college calculus at most colleges and universities.	1.0 QP
27.0730095 (Y)	<b>AP CALCULUS BC</b>	This course conforms to the Advanced Placement requirements of the College Board and includes advanced techniques of integration, infinite series, plane curves, parametric equations, polar graphs, vector-valued functions and logistic equations. It is a rigorous College Board approved and endorsed college-level class that pre-supposes that the student is proficient in mathematics. It is geared to the student who aspires to take the AP exam and is generally equivalent to the second semester of college calculus at most colleges and universities.	1.0 QP
27.0740095	<b>AP STATISTICS</b>	This course conforms to the Advanced Placement requirements of the College Board. The course is divided into four major themes: exploratory analysis, planning a study, probability, and statistical inference. Exploratory analysis of data makes use of graphical and numerical techniques to study patterns and departures from patterns. Probability is the tool used to anticipate future behavior of data associated with a given model. Statistical inference is the process used to make decisions stemming from observed. This course is designed for students who want to pursue studies or careers in the quantitative or scientific fields, or fields that rely on statistical analysis of pertinent data.	1.0 QP
27.3780404	<b>CALCULUS II</b>	This course is offered through Georgia Institute of Technology and is taught through distance learning. Students must meet the requirements of the Calculus II course offered at Georgia Institute of Technology	1.0 QP
27.3770413	<b>CALCULUS III</b>	This course is also offered through Georgia Institute of Technology and is taught through distance learning. Students must meet the requirements of the Calculus III course offered at Georgia Institute of Technology	1.0 QP
27.0770003	<b>MULTIVARIABLE CALCULUS</b>	This is a fourth-year course option for students who have completed AP Calculus BC. The course includes three-dimensional coordinate geometry; matrices and determinants; eigenvalues and eigenvectors of matrices; limits and continuity of functions with two independent variables; partial differentiation; multiple integration; the gradient; the divergence; the curl; Theorems of Green, Stokes, and Gauss; line integrals; integrals independent of path; and linear first-order differential equations.	1.0 QP

27.0790003	<b>ADVANCED MATHEMATICAL TOPICS</b>	This course is an introduction to Advanced Mathematical Topics. Topics, including logic and set theory, combinatorics, differential equations and mathematical proofs will be presented through an abstract approach that characterizes upper level mathematics courses. The goal is to give students the skills and techniques they will need as they study advanced mathematics at the college level. The course will look at mathematics in three areas: pure mathematics, applied mathematics, and application-oriented courses. There will be a strong focus on the presentation of mathematical ideas through both written and oral communication. This is a post-AP course designed for students who have completed the AP Calculus AB/BC curriculum.	1.0 QP
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**SCIENCE**

<b>COURSE #</b>	<b>COURSE NAME</b>	<b>DESCRIPTION</b>	<b>QUALITY POINTS</b>
26.0120011	<b>BIOLOGY</b>	Includes the study of cell structures and processes, basic organic chemistry, genetics, and basic classification of organisms and a general survey of micro-organisms. Emphasis is placed on laboratory investigations and scientific inquiry.	
26.0120003	<b>HONORS BIOLOGY</b>	Includes the study of cell structures and processes, basic organic chemistry, genetics, and basic classification of organisms and a general survey of micro-organisms. Emphasis is placed on laboratory investigations, scientific inquiry and critical thinking.	0.5 QP
26.0120087	<b>MAGNET BIOLOGY</b>	Includes the study of cell structures and processes, basic organic chemistry, genetics, and basic classification of organisms and a general survey of micro-organisms. Emphasis is placed on laboratory investigations, scientific inquiry, use of computerized PASCO programs for lab investigation and collaborative research.	0.5 QP
40.0580087	<b>MAGNET BIOCHEMISTRY</b>	This course will encompass principles of beginning Biology and Chemistry. There will be an emphasis on cellular bioenergetics and transport, organic chemistry, and clinical trials of pharmacological research. There will be a heavy integration of biomolecular interactions. Emphasis is placed on computerized PASCO probe-wear programs for lab investigations, scientific inquiry, and collaborative research.	0.5 QP
26.0140095	<b>AP BIOLOGY</b>	The Advanced Placement Biology course is designed to be the equivalent of a college introductory biology course usually taken by biology majors during their first year. The AP course in biology differs significantly from the usual first high school course in biology with respect to the kind of textbook used, the range and depth of topics covered, the kind of laboratory work done by students, and the time and effort required of students. It provides students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. This course also prepares students to take the AP Biology Exam.	1.0 QP
40.0510011	<b>CHEMISTRY</b>	Chemistry is designed to introduce the student to chemical principles and concepts which are developed from observations and data; to understand and apply ordinary chemical and scientific phenomena encountered in everyday activities; and to assist the student in appreciating the role of the chemist and the chemical industry in the development of our present day highly technological society. Emphasis is placed on experiments yielding data, that when analyzed and interpreted; reveal important relationships such as trends and regularities, which can be used as a basis for <u>developing unifying principles and concepts.</u>	
40.0510003	<b>HONORS CHEMISTRY</b>	This course is designed to introduce the student to the process by which chemical principles and concepts are developed from observations and data, to understand and apply ordinary chemical and scientific phenomena encountered in everyday activities, and to assist the student in appreciating the role of the chemist and the chemical industry in the development of our present day highly technological society. There is an emphasis on collaborative research in this course.	0.5 QP

40.0530095	<b>AP CHEMISTRY</b>	The Advanced Placement Chemistry course is designed to be the equivalent of a college introductory chemistry course usually taken by chemistry majors during their first year. The AP course in chemistry differs significantly from the usual first high school course in chemistry with respect to the kind of textbook used, the range and depth of topics covered, the kinds of laboratory work done by the students, the extensive mathematical applications of laws learned, and the time and effort required of the students. It provides students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of chemistry. This course also prepares students to take the AP Chemistry Exam.	1.0 QP
40.0810011	<b>PHYSICS</b>	This course introduces the relationships between speed, acceleration, and displacement. Vectors are used to make inferences about motion and forces. Work, conservation of energy and momentum are explained. The nature of heat, waves, sound and light are explored. The relationship of electricity and magnetism is described. Algebraic and scientific principles are developed and explored.	
40.0810003	<b>HONORS PHYSICS</b>	This course in physics introduces the relationships between speed, acceleration, and displacement. Vectors are used to make calculations involving both kinetic and dynamic quantities. Algebraic treatments of the laws of mechanics, as applied to both linear and circular motion systems, are derived and explained. The concepts of conservation of energy and momentum are introduced. This course also deals with the study of light, sound, electromagnetic waves, electricity, electromagnetism and electronics. There is an emphasis on collaborative research in this course.	0.5 QP
40.0841095	<b>AP PHYSICS C: Mech</b>	The Advanced Placement Physics C course is a calculus-based physics class. The student who enrolls in the AP Physics C course should be comfortable using higher level mathematics in problem-solving. The student who completes this class will be prepared to take the AP Physics exam in Mechanics. In addition, material on the AP Physics C exam in electricity and magnetism will be covered. A score of 4 or 5 on this exam is accepted by GA Tech for AP credit in Physics.	1.0 QP
40.0842095	<b>AP PHYSICS C: Electricity and Magnetism</b>	The Advanced Placement Physics C course is a calculus-based physics class. The student who enrolls in either AP Physics C course should be comfortable using higher level mathematics in problem-solving. The student who completes this class will be prepared to take the AP Physics exam in Electricity and Magnetism. A score of 4 or 5 on this exam is accepted by GA Tech for AP credit in Physics.	1.0 QP
40.0831095	<b>AP PHYSICS 1</b>	Algebra-Based is the equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; and mechanical waves and sound. It will also introduce electric circuit	1.0 QP
40.0832095	<b>AP PHYSICS 2</b>	Algebra-Based is the equivalent to a second-semester college course in algebra-based physics. The course covers fluid mechanics; thermodynamics; electricity and magnetism; optics; and atomic and nuclear physics;	1.0 QP

26.0611011	<b>ENVIRONMENTAL SCIENCE</b>	This course 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, get involved, and care for one's self and the environment.	
26.0620095	<b>AP ENVIRONMENTAL SCIENCE</b>	The Advanced Placement Environmental Science course is designed to be the equivalent of an introductory Environmental Science course at the college level. This course is a scientific examination of the interrelationships of the natural world, and the student will be able 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 course has significant laboratory and field-work components. The course prepares students to take the AP Environmental Science exam.	1.0 QP
40.0930003	<b>HONORS FORENSICS</b>	Forensic science is the application of scientific principles to matters of the law. Topics covered in this course may include investigation, evidence recovery and packaging, manner and cause of death, legal basis for search and scientific evidence, court testimony, and the analysis and interpretation of body fluid, impression, latent prints, drugs, firearms and tool marks, digital, questioned document, arson and trace evidence.	0.5 QP
26.0730012	<b>HUMAN ANATOMY &amp; PHYSIOLOGY</b>	This course is designed to continue student investigations that began in the introductory high school biology course. It integrates the study of the structures and functions of the human body, focusing 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. This curriculum is extensively performance and laboratory based. Careers related to medicine, research, health-care and modern technology are emphasized throughout the curriculum. Case studies concerning diseases, disorders and ailments (i.e., real-life applications) are also emphasized.	
26.0730003	<b>HONORS HUMAN ANATOMY &amp; PHYSIOLOGY</b>	This course is designed to continue student investigations that began in the introductory high school biology course. It integrates the study of the structures and functions of the human body, focusing 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. This curriculum is extensively performance and laboratory based. Careers related to medicine, research, health-care and modern technology are emphasized throughout the curriculum. Case studies concerning diseases, disorders and ailments (i.e., real-life applications) are also emphasized. The depth and breadth of this course is greater than the non-honors course.	0.5 QP

40.0210099	<b>ASTRONOMY</b>	This course will explain the concepts of modern astronomy, the origin and history of the universe and the formation of the Earth and solar systems. Descriptions of astronomical phenomena are given using the laws of physics. Discussion will include planets, stars, galaxies including the Milky Way, black holes, questions concerning the origin of the universe, its evolution and fate. Although largely descriptive, the course will occasionally require the use of sophomore-level mathematics.	
40.0921087	<b>MAGNET FOUNDATIONS</b>	This course is for freshmen entering the magnet program and prepares the students for the knowledge and skills necessary for success in the program. It covers the impact of technological advances, local studies, reference and research skills, process skills, computing skills, and concludes with a comprehensive design project. This course is taught in conjunction with AP Computer Science Principles.	
26.0640087	<b>ADVANCED GENETICS/DNA RESEARCH</b>	This course is designed as a research-based advanced genetics course, which will focus on human genetics, the human genome, and DNA fingerprinting. Students will be required to have a thorough background in scientific research and lab techniques.	1.0 QP
40.0910087	<b>ADVANCED MAGNET SCIENTIFIC INTERNSHIP</b>	This is a senior level Post-AP Magnet Course and is required of all magnet students to receive the Magnet seal. This course will place heavy emphasis on scientific applied research. Students will be required to develop a worksite/research topic. Students will prepare an electronic portfolio for the course.	1.0 QP
40.0924087	<b>ADVANCED MAGNET SCIENTIFIC RESEARCH</b>	This is a senior level Post-AP Magnet Course and is required of all magnet students receive the magnet seal. This course will be blocked with Advanced Science Internship. Emphasis for this course will be in-depth cumulative research portfolio and in-depth presentations skill.	1.0 QP
40.0890087	<b>ADVANCED PHYSICS/ROBOTICS</b>	This course will consist of students working independently and collaboratively in the research, design, development of robotics and automation technologies. There will be an emphasis on the application and integration of physics and technological principles in this course. Students will be introduced to the principles of robotics and automation and the role of robotics in industry and business through research, expert speakers, and site visits. They will apply their math, physical science, physics and technological skills and knowledge to the design and development of an array of robotic mechanisms. Students will learn and apply relevant computer programming languages in the process. Working in teams, students will build working robots which can accomplish specific predetermined goals. The class provides a basis for students interested in entering nationally recognized high-stakes robotics competitions.	1.0 QP
40.0940087	<b>CHEMICAL ENGINEERING &amp; MATERIALS SCIENCE</b>	This course will introduce the concepts of material and energy balances, which are the foundational principles in chemical engineering. Unit operations, separation techniques, and reactor design will also be taught. In addition this course will describe the five major categories of materials: metals, polymers, ceramics, semiconductors, and composites. Students will learn the properties of these different materials, and how these properties affect the performance of the material for various applications	1.0 QP

40.0923087	<b>MAGNET RESEARCH III—AEROSPACE ENGINEERING</b>	<p>The purpose of this course is to provide students with an overview of the fundamentals of aerospace engineering from a design perspective. This will include a historical overview, introductory aerodynamics, lift, drag, the standard atmosphere, aircraft performance, stability and control, propulsion, structures, materials, engineering analysis, rocket and spacecraft trajectories, and orbital mechanics. The fundamental concepts and approaches of aerospace engineering will be introduced through lectures on aeronautics, astronautics, and design. Hands-on learning will take place in the form of individual and team-based projects. The connections between theory and practice will be realized in the design and construction projects, labs and exercises. The performance, weight and principal characteristics of aerospace vehicles will be explored using physics, mathematics and chemistry with the emphasis being on the application of this knowledge to aerospace engineering and design.</p>	0.5 QP
27.0985095	<b>AP SEMINAR</b>	<p>This course will equip you with the skills to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments. You will have the opportunity to explore real-world issues from multiple perspectives and consider varied points of view to develop deep understanding of complex issues and topics in order to make connections between these issues and your everyday life. Gain a rich appreciation and understanding of issues by reading articles, listening to speeches or broadcasts, and experiencing artistic and literary works.</p> <p>The primary goals of the AP Seminar course are to help you understand how to study an issue from multiple perspectives, evaluate source information, and then develop and communicate effectively a logical, evidence-based point of view. You will practice and apply these skills through the exploration of the complex topics and by examining a variety of and often divergent or competing perspectives.</p>	1.0 QP
	<b>AP RESEARCH (coming in 2019-20)</b>	<p>AP Research is designed to allow you to dive into an academic topic, problem, or issue of individual interest. You will further develop the skills you acquired in the AP Seminar course by understanding research methods; employing ethical research practices; and accessing, analyzing, and synthesizing information as they address a research question. The course culminates in an academic paper of 4,000-5,000 words and a presentation with an oral defense during which you will answer questions about your academic paper.</p>	1.0 QP

**SOCIAL STUDIES**

COURSE #	COURSE NAME	DESCRIPTION	QUALITY POINTS
45.0710011 , 45.0710003 (Honors)	<b>WORLD GEOGRAPHY</b>	<p>This course provides an overview of physical and cultural geography. An awareness of similarities and differences in human needs and behaviors is developed. Areas of study are North and South America, Europe, Africa, Asia, and the Pacific Islands.</p> <p>The honors level course is designed for students who have proficiency in geographic skills and concepts.</p>	0.5 QP for Honors
45.0770095	<b>AP HUMAN GEOGRAPHY</b>	<p>This course provides the student with an in-depth understanding of the earth's regions, religions, languages, recent regional histories, governments, economic systems, and physical features. By the end of the semester, each student will be able to watch the news on television and understand the issues that define our world. Students will employ spatial concepts and landscape analysis to analyze the methods and tool geographers use in their science and practice. The course will cover demography, resources and human settlement, cultural patterns and processes, political geography, economic geography , and environmental and development issues. Students are expected to take the AP examination.</p>	1.0 QP
45.0830011, 45.0830003 (Honors)	<b>WORLD HISTORY</b>	<p>This course is a survey of people and nations of both Western and non-Western civilizations. This course explores the political, cultural, and economic heritage of civilizations from the time of recorded history through the industrial revolution (5000 B.C. – 1800's) and from the rise of nationalism to contemporary times (1800's – present). Critical thinking and problem solving are stressed.</p> <p>The honors level course is accelerated and designed for students interested in pursuing advanced social studies or careers in social studies.</p>	0.5 QP for Honors
45.0811095	<b>AP WORLD HISTORY</b>	<p>This course conforms to the College Board topics for advanced placement. The purpose of the course is to develop greater understanding of the evolution of global processes and contacts, interaction with different types of human societies. The course highlights the nature of changes in international frameworks and their causes and consequences, as well as comparison among major societies. The course emphasizes relevant factual knowledge deployed in conjunction with leading interpretive issues and types of historical evidence. Focused primarily on the past thousand years of the global experience, the course builds on an understanding of cultural, institutional, and technological precedents that, along with geography, set the human state prior to 1000 C.E. Students are expected to take the AP examination.</p>	1.0 QP

45.0810011, 45.0810003 (Honors)	<b>US HISTORY</b>	<p>This course is a survey of the development of the United States from discovery through the present. The purpose of this course is to increase knowledge, awareness, and appreciation of America's social, political, and economic evolution from colonization to its current position as a world leader. The student will also be encouraged to think independently.</p> <p>The honors level course is accelerated and designed for students interested in pursuing advanced social studies or careers in social studies.</p>	0.5 QP for Honors
45.0820092-A (Fall), 45.0820093-B (Spring)	<b>AP US HISTORY</b>	<p>This course conforms to the College Board topics for AP United State History. It covers United States history from the time of earliest settlements to the present. The course targets political and social aspects of history, but also includes diplomatic, economic and intellectual history. The course will involve extensive readings, independent study and frequent written analysis to prepare students for the AP examination. Students are expected to take the AP examination.</p>	1.0 QP
45.0570010, 45.0570002 (Honors)	<b>AMERICAN GOVERNMENT</b>	<p>This course is a study of the local, state, and federal governmental functions. Citizenship rights and responsibilities are emphasized. Focus areas include development of our political system, federalism, civil liberties, political parties, political theory, and comparative government. Also, the functions of our executive, legislative, and judicial branches of government will be studied.</p>	0.5 QP for Honors
45.0520095	<b>AP US GOVERNMENT</b>	<p>This course conforms to the College Board topics for AP American government which is the study of political behavior in the American Political System. Focus areas include Constitutional underpinnings, including federalism, development of the public policy, and the study of political theory. It also includes the study of linkage institutions; i.e. political parties, interest groups. The course also comprises an analysis of government institutions including the executive, legislative, and judicial branch as well as civil rights and civil liberties. This course fulfills requirement for graduation for American Government. Students are expected to take the AP examination.</p>	1.0 QP
45.0610010, 45.0610002 (Honors)	<b>PRINCIPLES OF ECONOMICS</b>	<p>This course is a study of fundamental concepts and essential elements of the market economic system in a problem/issues orientation. Focus areas include opportunity costs and scarcity, supply/demand analysis, competitive markets, macroeconomics measurement, business cycles, inflation, unemployment, monetary and fiscal policies, and international trade. Students will learn personal finance through the completion of a problem-based learning budget project.</p>	0.5 QP for Honors
45.0630095	<b>AP MICROECONOMICS</b>	<p>This course conforms to College Board topics for the AP Microeconomics, and covers basic economic concepts, the nature and functions of product markets, factor markets and efficiency, equity, and the role of government. Students are expected to take the AP examination. Students will learn personal finance through the completion of a problem-based learning budget project.</p>	1.0 QP

45.0160095	<b>AP PSYCHOLOGY</b>	This course is a college level survey course with study in learning theory, abnormal behavior, and social psychology. Extensive reading, writing, and statistical analysis are required of students. Students are expected to take the AP examination.	1.0 QP
45.0840095	<b>AP EUROPEAN HISTORY Y</b>	This rigorous college-level course 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. Students are expected to take the AP examination	1.0 QP



**WORLD LANGUAGES**

<b>COURSE #</b>	<b>COURSE NAME</b>	<b>DESCRIPTION</b>	<b>QUALITY POINTS</b>
62.0110011	<b>CHINESE I</b>	Introduces the Chinese language; emphasizes all 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 Chinese-speaking cultures.	
62.0120011	<b>CHINESE II</b>	Enhances Level One skills in Chinese 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, to speak and read within a range of carefully selected topics and to increase understanding of Chinese-speaking cultures.	
62.0130003	<b>CHINESE III</b>	Enhances Level Two skills in Chinese 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 Chinese-speaking cultures.	0.5 QP
62.0140003	<b>CHINESE IV</b>	Enhances Level Three skills in Chinese 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 for a broader and more extensive understanding of Chinese-speaking cultures.	1.0 QP
62.0150003	<b>CHINESE V</b>	Enhances Level Four skills in Chinese and provides opportunities to increase levels of proficiency in all skill areas and deepen understanding of Chinese-speaking cultures.	1.0 QP
60.0110011	<b>FRENCH I</b>	In French I, students will be introduced to the language and culture of France and French-speaking countries. The course is intended to enable students to attain a certain level of proficiency in the four basic skills of listening, speaking, reading, and writing, with an emphasis on oral proficiency.	
60.0120011, 60.0120003 (Honors)	<b>FRENCH II</b>	French II is a continuation to the study of the language and culture of the French-speaking world. This course strives to help the learner acquire the ability to use the language by integrating the four skills of reading, writing, listening, and speaking with an increased emphasis on oral proficiency	0.5 QP for Honors
60.0130003	<b>FRENCH III HONORS</b>	French III is designed to further develop the student's language skills and cultural understanding of the French-speaking world. This course strives to help the learner acquire the ability to use the language by integrating the four skills of reading, writing, listening, and speaking with an increased emphasis on oral proficiency.  Prerequisite course is Honors French II.	0.5 QP
60.0140003	<b>FRENCH IV HONORS</b>	French IV students will increase proficiency using oral and written forms as they continue to acquire knowledge of the French-speaking world. The curriculum will emphasize the foreign language content standards of communication, cultures, connections, comparisons, and communities through the development of reading, writing, listening, and speaking skills.	1.0 QP

60.0150003	<b>FRENCH V HONORS</b>	This course is a continuation of advanced French language study. Students read at least one complete literary works as well as excerpts from a variety of genres. Other historical or cultural readings, audio programs, and French language films are also included.	1.0 QP
60.0160003	<b>FRENCH VI Y HONORS</b>	This course is designed to expand students conversational skills, improve their pronunciation and listening comprehension, and enable them to read longer selections in authentic French.	1.0 QP
60.0190003	<b>FRENCH VII HONORS Y</b>	This course emphasizes French achievements in cuisine, art, music, history, medicine, and technology.	1.0 QP
60.0111003	<b>FRENCH VIII HONORS Y</b>	This course is designed to continue advanced topics in literature, art, history, language, culture, music, medicine, and technology	1.0 QP
60.0170095	<b>FRENCH AP</b>	This course will prepare students to take the AP Language test by in-depth study of grammar and intensive practice of listening, speaking, and writing.	1.0 QP
61.0410011	<b>LATIN I</b>	Latin I is the first half of a two-year sequential course which develops the skills needed to read Latin literature. The approach used is a reading approach in which grammar is taught in context and as an aid to reading comprehension. The course also develops a basic Latin vocabulary and, by comparison, expands the students' English vocabulary. The course includes study of Roman culture, Roman history, and classical mythology.	
61.0420011, 61.0420003 (Honors)	<b>LATIN II</b>	Latin II is the second half of a two year sequential course which develops the skills needed to read Latin literature. The approach used is a reading approach in which grammar is taught in context and as an aid to reading comprehension. The course also expands Latin vocabulary and, by comparison, expands the students' English vocabulary. The course includes study of Roman culture, Roman history, and classical mythology.	0.5 QP for Honors
61.0430003	<b>LATIN III HONORS</b>	Latin III is the first year of advanced Latin literature. Latin III traditionally focuses on prose literature of the late Republic and early Empire. Grammar is taught in the context of the readings. Vocabulary again focuses on the expansion of both Latin and English vocabulary. The course also includes the study of Roman culture and history of the late Republic and early Empire.  Prerequisite course is Honors Latin II.	0.5 QP
61.0440003	<b>LATIN IV HONORS</b>	Latin IV is designed to provide the students an opportunity to understand the works of classical authors with primary emphasis on poetry selections. The course will focus on Roman history and Culture, a review of Latin grammar, a study of the mechanics of Latin poetry, and translation of the beginning of the Aeneid.	1.0 QP
61.0450003	<b>LATIN V HONORS</b>	Latin V is designed to provide the student an opportunity to understand the works of classical authors with primary emphasis on Catullus or Ovid. The course will focus on the translation of poems, a study of more advanced Latin grammar, a study of the mechanics of Latin poetry, and interpretation of the poetry in preparation for the AP exam.	1.0 QP
61.0460003	<b>LATIN VI</b>	Latin VI is designed to provide the student with the opportunity to understand the works of classical authors with primary emphasis on drama selections. Course work will include transitional readings, grammar review, a study of the mechanics of Latin drama, and translation techniques.	1.0 QP

61.0480095	<b>AP LATIN</b>	The AP Latin course is designed to give students the experiences needed to be successful on the College Board AP Latin exam. The course's goals are to develop the students' abilities to translate the required passages from Caesar's De bello Gallico and Vergil's Aeneid into English as literally as possible, to help them understand the context of the written passages (including the political, historical, literary, and cultural background of each author and text), and to help them understand the reasons behind the particular style of writing and the rhetorical devices employed. The course should also help students to be successful in analyzing Latin passages to understand how and why the author uses the language in a particular way and the effects he is hoping to produce. Students will learn to analyze the text and draw their own logical conclusions. This course should give students tools to read Latin prose and poetry aloud and with accurate comprehension and appreciation. For the Vergil text, students will learn dactylic hexameter and how it is used to enhance the text and create effect, and students will scan the poetry at least once a week.	1.0 QP
60.0710011	<b>SPANISH I</b>	Spanish I is an introduction to the language and culture of the Spanish-speaking countries. This course is the foundation for students to begin developing proficiency in reading, writing, listening, and speaking skills. Development of these four skills will occur in a curriculum that emphasizes the foreign language content standards of communication, cultures, connections, comparisons, and communities.	
60.0720011, 60.0720003 (Honors)	<b>SPANISH II</b>	Spanish II is a continuation of the study of the language and culture of the Spanish-speaking world. The course strives to help the learner acquire knowledge of the language and proficiency by integrating the four skills of listening, speaking, writing, and reading.	0.5 QP for Honors
60.0730003	<b>SPANISH III HONORS</b>	Spanish III is a course designed to further develop the language skills and culture of the Spanish-speaking world. The course strives to help the learner acquire knowledge of the language by integrating the four skills of listening, speaking, writing, and reading with foreign language content standards of communication, cultures, connections, comparisons, and communities.  Prerequisite course is Honors Spanish II.	0.5 QP
60.0740003	<b>SPANISH IV HONORS</b>	Spanish IV is a course designed to serve as an extension of the skills learned by students in their third year of Spanish. This course strives to help the learner acquire an in-depth knowledge of the language by continuing to integrate the four skills of listening, speaking, writing, and reading with emphasis on oral proficiency.	1.0 QP
60.0750003	<b>SPANISH V HONORS</b>	This course will review advanced grammatical structures while presenting more idiomatic phrases through selected readings. Students will continue to improve oral and written fluency.	1.0 QP

60.0760003	<b>SPANISH VI</b>	This course is designed to expand student's conversational skills, improve their pronunciation and listening comprehension, and enable them to read longer selections in authentic Spanish. (This course is listed in Picasso as Spanish VI) Reading selections will come from magazine and newspaper articles, short stories, and novels.	1.0 QP
60.0711003	<b>SPANISH VII</b>	This course emphasizes Hispanic achievements in cuisine, art, music, history, medicine, and technology. (This course is listed in Picasso as Spanish VII) Reading selections will come from magazine and newspaper articles, short stories, and novels.	1.0 QP
60.0770095	<b>SPANISH AP</b>	This course is designed to prepare students to take the AP language test by in-depth study of grammar and intensive practice of listening, speaking, reading, and writing. Students are challenged to make the transition to a more detail-oriented style of learning, while maintaining spontaneity and interest. The student should learn to appreciate and meet increasingly difficult demands. Spanish V should be completed before taking AP Spanish.	1.0 QP
60.0790099	<b>SPANISH FOR NATIVE SPANISH SPEAKERS, LEVEL 1</b>	The course is designed for the Spanish Heritage Speaker and will focus on advanced skills in reading, writing, listening, and speaking. Essay development and novel reading are integral to this course.	
60.0791099	<b>SPANISH FOR NATIVE SPANISH SPEAKERS, LEVEL 2</b>	This course is designed for the Spanish Heritage Speaker and will focus on advanced skills in reading, writing, listening, and speaking. Essay development, novel reading, and an in-depth study of culture, literature, and history of the Spanish-speaking world are integral to this course.	

**ESOL ENGLISH**

<b>COURSE #</b>	<b>COURSE NAME</b>	<b>DESCRIPTION</b>	<b>QUALITY POINTS</b>
55.0210099	<b>IEL 1 Communication Skills I</b>	This course will focus on the acquisition of social and instructional language across the four language domains as prescribed in WIDA Standard 1. The suggested proficiency level of the student is PL 1-2. This course awards elective credit.	
55.0230099	<b>IEL 1 Reading and Listening in the Content Areas</b>	This course supports and enhances literacy and listening skills necessary for success in the content areas. Guiding the course are the five basic WIDA Standards with particular emphasis on reading and listening skills in language arts, science, social studies and mathematics. The suggested proficiency level is PL 1-3. This course awards elective credit.	
55.0211099	<b>IEL 1 Communication Skills in Math</b>	This course supports and enhances literacy and listening skills necessary for success in the mathematics content areas. Guiding the course are the five basic WIDA Standards with particular emphasis on vocabulary, speaking, listening and reading skills in mathematics. The content addresses all five WIDA Standards. The suggested proficiency level is CPL 2-3.	
55.0212099	<b>ESOL Communication Skills in Science</b>	This course supports and enhances literacy and listening skills necessary for success in the content area of science. Guiding the course are the five basic WIDA Standards with particular emphasis on vocabulary, speaking, listening and reading skills in science. The content addresses all five WIDA Standards. The suggested proficiency level is CPL 2-3.	
55.0213099	<b>ESOL Communication Skills in Social Studies</b>	This course supports and enhances literacy and listening skills necessary for success in the content areas. Guiding the course are the five basic WIDA Standards with particular emphasis on vocabulary, speaking, listening and reading skills in social studies. The content addresses all five WIDA Standards. The suggested proficiency level is CPL 2-3.	
55.0220099	<b>IEL 2 Communication Skills II</b>	This course is an expansion of Communication Skills I with the inclusion of some content language, particularly the discipline of English language arts. The five WIDA standards serve as its basis with emphasis upon proficiency in Standard 2 regarding the communication of information, ideas and concepts necessary for academic success in the content area of language arts. The suggested proficiency level of the student is PL 1-2. This	
55.0250099	<b>Writing in the Content Areas</b>	This course focuses on writing across the standards of English language arts, science, mathematics, and social studies. The domains of reading, listening and speaking are integral to the writing process, both actively and critically. The content addresses all five WIDA Standards. The suggested proficiency level is PL 2-4. This course awards elective credit.	

**FINE ARTS--MUSIC**

<b>COURSE #</b>	<b>COURSE NAME</b>	<b>DESCRIPTION</b>	<b>QUALITY POINTS</b>
54.0211096 (Alternating Days) & 53.0371097 (Alternating Days), 54.0211099	<b>CHORALE (BEGINNING)</b>	Open to students in all grade levels. This class meets year round. Magnet students and others who need to take this class as a skinny may do so. Students are strongly encouraged to take both the A class and the B class if possible, so as to meet every day. No audition and no singing experience needed. This course will teach the fundamentals of music theory, sight-reading, and vocal techniques.	
54.0221099 (FALL), 54.0222099 (SPRING)	<b>SPIRITO (INTERMEDIATE)</b>	Advanced Choral performance class for female voices with previous choral music experience. Students will continue to advance their skills in tone production, intonation, music reading, diction, music theory, and group balance and blend.	
54.0231099 (Fall), 54.0232099 (Spring), 54.0231096/97 (Alternating Days)	<b>BEL VOCE (ADVANCED MIXED)</b>	Advanced Choral Performance class for mixed voices with previous training in choral music. Students will continue to advance their skills in tone production, intonation, diction, music reading, music theory, and balance and blend. Students in Bel Voce may audition for the co-curricular a cappella choir.	
52.0310099	<b>MUSICAL THEATER I</b>	Introduces the style and characteristic elements of modern musical theatre. Covers production staging, orchestration, voice and dance.	
53.02361099 (FALL), 53.0362099 (FALL), 53.0363099 (SPRING),	<b>BEGINNING BAND (9TH GRADE BAND)</b>	This course focuses on fundamental techniques of the instruments. These techniques will be applied to concert band literature appropriate to the level of student achievement.	
53.0371096 (FALL), 53.0371097 (SPRING)	<b>INTERMEDIATE BAND</b>	This course focuses on intermediate musical concepts for all band instruments. These concepts are applied to concert band literature appropriate to the level of student achievement	
53.0381096 (FALL), 53.0381097 (SPRING)	<b>ADVANCED BAND</b>	This course focuses on advanced musical concepts for all band instruments. These concepts are applied to concert band literature appropriate to the level of student achievement.	
53.0230095	<b>AP MUSIC THEORY</b>	This is the school's advanced placement music theory course. This class analyzes and composes music from the classical period and studies its influence on current music trends.	1.0 QP
53.0140099	<b>MUSIC APPRECIATION</b>	Students will explore all aspects of music in varying cultures, spanning ancient history through contemporary times.	
53.0741099 (FALL), 53.0562099 (SPRING)	<b>BEGINNING ORCHESTRA (NEVER PLAYED)</b>	This course gives students a chance to begin playing a string instrument—Violin, Viola, Cello, & Bass. They will have an opportunity to audition for Philharmonia Orchestra in the spring.	
53.0571096 (FALL), 53.0571097 (SPRING)	<b>INTERMEDIATE ORCHESTRA (SINFONIA)</b>	This orchestra focuses on review of technical and musical concepts at the intermediate level. These are transferred to orchestral literature and performed throughout the year.	
53.0581096 (FALL), 53.0581097 (SPRING)	<b>ADVANCED ORCHESTRA (CHAMBER)</b>	This orchestra focuses on more advanced skills and literature. This select group of students must meet specified playing requirements to enroll.	
53.0561099 (FALL), 53.0562099 (SPRING), 53.0561096/97 (Alternating)	<b>BEGINNING ORCHESTRA (PHILHARMONIA)</b>	This course focuses on musical and technical concepts at a beginning level. These are then transferred to orchestral literature and performed throughout the year.	

**FINE ARTS--VISUAL ART**

<b>COURSE #</b>	<b>COURSE NAME</b>	<b>DESCRIPTION</b>	<b>QUALITY POINTS</b>
50.0211099	<b>VISUAL ARTS COMPREHENSIVE</b>	This course is the prerequisite for all art classes offered at Wheeler High School. Students will learn the elements and principles of design as they work on art projects in both two and three dimensional mediums, in accordance with the Cobb County School District Standards. Art history and appreciation, art critique methods, critical thinking skills, writing, and exploration of career choices are also covered in this class. Areas of study include drawing, painting, pottery, printmaking, and color theory.	
50.0313099	<b>DRAWING/PAINTING I</b>	This course will explore intermediate drawing and painting techniques including contour, gesture, value, color theory, composition and perspective. Through a series of set-ups and demonstrations, students will learn to create dynamic compositions while gaining a sound understanding of materials and methods. Media may include graphite, charcoal, ink, oil pastels, colored pencils, acrylic and watercolor paints.	
50.0314099	<b>DRAWING &amp; PAINTING II</b>	The course enhances level-one drawing and painting skills and provides opportunities to apply techniques toward a creative end. Assignments will be more open-ended to allow for more diverse and original outcomes.	
50.0431099	<b>APPLIED DESIGN I</b>	This course introduces graphic design as seen in advertising, posters, package design, logos, and illustration. Students will plan artwork using design principles learned in previous classes, and implement using Adobe Creative Suite, particularly InDesign, Illustrator, and Photoshop.	
50.0432099	<b>APPLIED DESIGN II</b>	This course reinforces and extends skills learned in Graphic Design I. Students will work as a professional designer would, taking into account client directives/constraints and creating design products to meet a variety of real-world needs.	
50.0611099	<b>SCULPTURE I</b>	This course will focus on three-dimensional form, utilizing principles learned in VA Comprehensive. Artworks will be created by shaping or combining materials such as wood, clay, plaster, metal and found objects. We will explore relief sculpture as well as sculpture in the round. Various techniques will be practiced, all with meaningful connections to culture, student interest, and other academic disciplines.	
50.0612099	<b>SCULPTURE II</b>	This course introduces more complex techniques of construction and exploration of 3-D visual communication. If appropriate, students will be provided the opportunity for self-guided study.	
50.0813095	<b>AP STUDIO ART 2-D DESIGN Y</b>	This class conforms to College Board's topics for the Advanced Placement Studio Art 2-D Design Portfolio Examination. Requires submission of original works & slides to be evaluated on quality, breadth & concentration of a concept or idea. Emphasizes experiences in 2-D Design art production which might include (but not limited to) photography, printmaking & computer generated work. This course provides students with college-level studio experiences and encourages self-expression.	1.0 QP

50.0814095	<b>AP STUDIO 3-D DESIGN Y</b>	This class conforms to College Board's topics for the Advanced Placement Studio Art 2-D Design Portfolio Examination. Requires submission of original works & slides to be evaluated on quality, breadth & concentration of a concept or idea. Emphasizes experiences using different 3-D design, media and approaches. This course provides students with college level studio experiences and encourages self expression.	1.0 QP
50.0921095	<b>AP ART HISTORY</b>	The AP Art History course, which is equivalent to an introductory college art history survey, focuses on developing students' art historical skills as they examine and analyze major forms of artistic expression from a variety of cultures from ancient times to the present. While visual analysis is a fundamental tool of the art historian, the course also emphasizes understanding how and why works of art function in context, considering such issues as patronage, gender, and the functions and effects of works of art. Students investigate how imagery has shaped our perceptions and behavior throughout time, providing insight into the past and into our own age and culture.	1.0 QP



**FINE ARTS--DRAMA**

<b>COURSE #</b>	<b>COURSE NAME</b>	<b>DESCRIPTION</b>	<b>QUALITY POINTS</b>
52.0610099	<b>ACTING I Y (INTRO TO THEATRE)</b>	This course serves as the prerequisite for other theatre courses. It will include the study and application of stage movement, pantomime, vocal techniques, improvisation, and character development. Composition will be integrated through script writing of scenes for principle application. Personal growth/skill will be assessed through <u>solo/group performances</u>	
52.0620099	<b>ACTING II Y</b>	This course will enhance introductory acting skills with character study and scene work. Through utilization of scene study, play analysis, and higher-level improvisation, this class will focus on scene strategies for actors working in scenes together. Tempo strategies, creative blocking and stage business, staging of unusual <u>scene elements, and stage combat techniques will be included.</u>	
53.0630099	<b>ACTING III</b>	This course will enhance students' skills by analyzing and constructing meaning from theatrical experiences, dramatic literature, and electronic media, developing scripts through improvisation and other theatrical methods , acting by developing, communicating, and sustaining roles within a variety of situations and environments, designing and executing artistic and technical elements of theatre, and directing by conceptualizing, organizing, and conducting rehearsals for performance.	
52.0210099	<b>ADVANCED FUNDAMENTALS OF DRAMA Y</b>	This is a course that develops advanced acting skills with a focus on character/scene study and monologue/scene work. Students will be introduced to audition and resume skills. This course offers the opportunity to utilize scene work and audition techniques <u>through performance opportunities</u>	
52.0410099 52.0420099 52.0430099 52.0440099	<b>TECHNICAL THEATRE I-IV Y</b>	This class introduce the technical aspects of play production including set design and construction, properties, lighting/sound design, box office and business management, publicity, make-up design, and costume design/construction. Students will have a hands-on experience in all of these areas by providing the technical needs for current <u>productions.</u>	
52.0510099	<b>ADVANCED DRAMA (PLAY PRODUCTION)</b>	This class reinforces skills developed in fundamentals of Acting III. Students will be given the opportunity to select, produce, and perform in student-directed one-act plays of a <u>full-length production.</u>	
52.03100099	<b>MUSICAL THEATER I</b>	Introduces the style and characteristic elements of modern musical theatre. Covers production staging, orchestration, voice and dance.	

**JOURNALISM**

<b>COURSE #</b>	<b>COURSE NAME</b>	<b>DESCRIPTION</b>	<b>QUALITY POINTS</b>
23.0320096 (A), 23.0320097 (B)	<b>ADVANCED NEWSPAPER JOURNALISM</b>	Alternating course 3rd period for advanced newspaper students	
23.0330008 (A), 23.0330009 (B)	<b>ADVANCED ANNUAL JOURNALISM</b>	Alternating course 3rd period for advanced newspaper students	
23.0320023	<b>JOURNALISM/NEWSPAPER I Y</b>	This course explores journalistic writing through analysis of the newspaper. It concentrates on purpose, influence, and structure and language use. It also covers news-gathering, ethics, copyrighting, editing and revising. It will include typesetting, circulation and production as minor aspects.	
23.0320011	<b>JOURNALISM/ANNUAL I Y</b>	This course explores writing through the analysis of yearbooks. It concentrates on purpose, influence, and structure and language use. It also covers news-gathering, ethics, copyrighting, editing and revising. . It will include typesetting, circulation and production as minor aspects.	
23.0330011, 23.0350011, 23.0360011	<b>ADVANCED JOURNALISM ANNUAL II, III, AND IV</b>	Upper level annual courses for students pursuing excellence in annual journalism.	
23.0330099, 23.0350099, 23.0360099	<b>ADVANCED JOURNALISM NEWSPAPER II, III, AND IV</b>	Upper level newspaper courses for students pursuing excellence in newspaper journalism.	

**PHYSICAL EDUCATION**

<b>COURSE #</b>	<b>COURSE NAME</b>	<b>DESCRIPTION</b>	<b>QUALITY POINTS</b>
36.0110099	<b>GENERAL PHLYSICAL EDUCATION</b>	This course focuses and enhances skills in any combination or variety of team sports, lifetime sports, track and field events, outdoor education, experiences, rhythmic/dance, recreational games, gymnastics, and self-defense. It further promotes methods to attain a healthy and active lifestyle. The General Physical Educations courses may be used as pre-requisites to other course offerings (i.e. team sports, lifetime sports).	
17.0110098 Health .5, 36.0510098 Fitness .5 17.0110097 (Spring skinny)/36.0510096 (Fall skinny)	<b>HEALTH/FITNESS Y</b>	A course designed to develop a higher state of wellness through an understanding of preventive health strategies and health related fitness. Students spend classroom time learning knowledge and concepts that serve as the foundation for the development of overall wellness and activity time involved in a fitness program. Emphasis is placed on the decision-making process and preventive health care. This course is required for <u>graduation</u> .	
36.0560099	<b>BODY SCULPTING</b>	This course is designed to help students tone and shape their bodies through the use of strength training. The main emphasis will be on the proper use of free weights. Cardiovascular and flexibility development will also be emphasized.	
36.0530096	<b>AEROBIC DANCE</b>	This course is designed to help students tone and shape their bodies through aerobics. Cardiovascular and flexibility development will be emphasized.	
36.0210099	<b>INTRO TO TEAM SPORTS Y</b>	This course introduces fundamental skills, strategies, and rules associated with team sports such as basketball, volleyball, soccer, softball, baseball, field hockey, lacrosse, <u>team handball, and flag football.</u>	
36.0250099	<b>INTRO OUTDOOR EDUCATION Y</b>	This course is designed to introduce students to fundamental backpacking and camping skills to include environmental considerations, personal safety, and survival skills associated with adventure activities. Activities will include archery, fishing, compass reading, fire building, food gathering techniques, and survival skills. This class is performance based. The students should be prepared to go outside everyday and utilize the skills they have been taught.	
36.0540099	<b>WEIGHT TRAINING</b>	Weight Training is designed to introduce students to a weight-training program that will promote over-all body fitness. The student will be exposed to different types of weight equipment and methods of training with weights. The student will also gain knowledge of the different types of exercises, correct techniques of executing the various exercises, proper breathing, and the safety factors involved in spotting.?	
36.0640099 Spring	<b>ADV. WEIGHT TRAINING</b>	Adv Weight Training is designed to introduce students to a weight-training program that will promote over-all body fitness. The student will be exposed to different types of weight equipment and methods of training with weights. The student will also gain knowledge of the different types of exercises, correct techniques of executing the various exercises, proper breathing, and the safety factors involved in spotting.	

**CTAE**

<b>COURSE #</b>	<b>COURSE NAME</b>	<b>DESCRIPTION</b>	<b>QUALITY POINTS</b>
<b>WEB AND DIGITAL DESIGN</b>			
11.4150099	<b>INTRODUCTION TO DIGITAL TECHNOLOGY</b>	Introduction to Digital Technology is the foundational course for Web & Digital Communications, Programming, Advanced Programming, Information Support & Services, and Network Systems pathways. This course is designed for high school students to understand, communicate, and adapt to a digital world as it impacts their personal life, society, and the business world. Exposure to foundational knowledge in hardware, software, programming, web design, IT support, and networks are all taught in a computer lab with hands-on activities and project-focused tasks. Students will not only understand the concepts, but apply their knowledge to situations and defend their actions/decisions/choices through the knowledge and skills acquired in this course. Competencies in the co-curricular student organization, Future Business Leaders of America (FBLA), are integral components of both the employability skills standards and content standards for this course. Professional communication skills and practices, problem-solving, ethical and legal issues, and the impact of effective presentation skills are taught in this course as a foundational knowledge to prepare students to be college and career ready. The knowledge and skills taught in this course build upon each other to form a comprehensive introduction to digital world.	
11.4310099	<b>DIGITAL DESIGN</b>	Using web design as the platform for product design and presentation, students will create and learn digital media applications using elements of text, graphics, animation, sound, video and digital imaging for various format. The digital media and interactive media projects developed and published showcase the student skills and ability. Emphasis will be placed on effective use of tools for interactive multimedia production including storyboarding, visual development, project management, digital citizenship, and web processes. Students will create and design web sites that incorporate digital media elements to enhance content of web site. Students enrolled in this course should have successfully completed Introduction to Digital Technology and Fundamentals.	
11.4320099	<b>WEB DESIGN</b>	Taking this course will equip students will the ability to plan, design, and create a web site. Students will move past learning how to write code and progress to designing a professional looking web site using graphical authoring tools that contains multimedia elements. Working individually and in teams, students will learn to work with web page layout and graphical elements to create a professional looking web site. Web Design is the third course in the Web & Digital Design pathway in the Information Technology cluster. Students enrolled in this course should have successfully completed Introduction to Digital Technology and Digital Design. After mastery of the standards in this course, students should be prepared to take the end of pathway assessment in this career area.	
<b>COMPUTER SCIENCE</b>			

11.4150099	<b>INTRODUCTION TO DIGITAL TECHNOLOGY</b>	Introduction to Digital Technology is the foundational course for Web & Digital Communications, Programming, Advanced Programming, Information Support & Services, and Network Systems pathways. This course is designed for high school students to understand, communicate, and adapt to a digital world as it impacts their personal life, society, and the business world. Exposure to foundational knowledge in hardware, software, programming, web design, IT support, and networks are all taught in a computer lab with hands-on activities and project-focused tasks. Students will not only understand the concepts, but apply their knowledge to situations and defend their actions/decisions/choices through the knowledge and skills acquired in this course. Competencies in the co-curricular student organization, Future Business Leaders of America (FBLA), are integral components of both the employability skills standards and content standards for this course. Professional communication skills and practices, problem-solving, ethical and legal issues, and the impact of effective presentation skills are taught in this course as a foundational knowledge to prepare students to be college and career ready. The knowledge and skills taught in this course build upon each other to form a comprehensive introduction to digital world.	
11.4180099	<b>COMPUTER SCIENCE PRINCIPLES:</b>	This course emphasizes the content, practices, thinking and skills central to the discipline of computer science. Through both its content and pedagogy, this course aims to appeal to a broad audience. The focus of this course will fall into these computational thinking practices. Computer Science Principles is the second course in the pathways Programming and Computer Science in the Information Technology Cluster. Students enrolled in this course should have successfully completed <u>Introduction to Digital Technology</u> .	
11.4160095	<b>AP COMPUTER SCIENCE Y</b>	This is the third course in the Computer Science Pathway. AP Computer Science is a one-unit course that emphasizes programming methodology and data abstractions. It takes an object-oriented approach to programming based on encapsulating procedures and data. AP Computer Science is taken in order to prepare students to take the College Board AP Computer Science AB exam. This course uses the Java <u>programming language</u> .	1.0 QP
11.0910095	<b>AP COMPUTER SCIENCE PRINCIPLES</b>	AP Computer Science Principles offers a multidisciplinary approach to teaching the underlying principles of computation. The course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity concerns, and computing impacts. AP Computer Science Principles will give students the opportunity to use technology to address real-world problems and <u>build relevant solutions</u> .	1.0 QP

**ENGINEERING & TECHNOLOGY PATHWAY**

21.4250099	<b>FOUNDATIONS OF ENGINEERING AND TECHNOLOGY:</b>	The Foundations of Engineering and Technology is the introductory course for the Engineering and Technology Education pathways. This STEM driven course provides the students with an overview of engineering and technology including the different methods used in the engineering design process developing fundamental technology and engineering literacy. Students will demonstrate the skills and knowledge they have learned through various project based activities while using an engineering design process to successfully master the “E” in STEM	
21.4710099	<b>ENGINEERING CONCEPTS</b>	Engineering Concepts is the 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.	
21.4720099	<b>ENGINEERING APPLICATIONS</b>	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 drawing and prototypes.	
21.4610099	<b>RESEARCH DESIGN &amp; PROJECT MANAGEMENT</b>	Engineering R&D is the fourth 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 drawing and prototypes.	
Students will be placed in the appropriate Engineering course number above based on which course(s) they have already completed.	<b>BEST ROBOTICS ENGINEERING</b>	This course will allow students to compete in the BEST Robotics competition by designing and building a robot. Students will cover the standards of the Engineering curriculum through the design and build process. Each student will be placed in the appropriate Engineering course above based on which course(s) they have already completed. Students have the option of taking this course up to 4 times, thereby receiving credit for each of the four engineering courses listed above. Best Robotics website: <a href="http://www.bestinc.org">www.bestinc.org</a>	

**ENGINEERING DRAFTING & DESIGN CAREER PATHWAY**

48.5410099	<b>INTRODUCTION TO DRAFTING AND DESIGN:</b>	The Introduction to Drafting and Design course is the foundational course under both the Engineering Drafting and Design as well as the Architectural Drawing and Design pathways and prepares students for a pursuit of any career in the field of construction, Architecture or Engineering. The course provides the basic knowledge to function safely on or around a construction site and in industry in general.	
48.5420099	<b>SURVEY OF ENGINEERING GRAPHICS Y</b>	Develop skills in dimensioning, tolerancing, pictorials, sections, auxiliary views, as well as intersections and developments. CAD tools and software are used extensively throughout this course. This is the second course in the Engineer Graphics & Design pathway.	

48.5430099	<b>3-D MODELING AND DESIGN Y</b>	is designed for students who are interested in mechanical drafting areas that provide more in-depth study of mechanical design. Emphasis is placed on 3-d drawings, wire frames, rendering, solid modeling, and graphic presentations. This is the third course in the <u>Engineering Graphics &amp; Design</u> pathway.	
48.5440099	<b>TECHNICAL MANUFACTURING AND CONCEPTS Y</b>	This course allows students to develop skills in fluid drawings, electricity/electronics, working drawings, and manufacturing process.	
<b>ARCHITECTURAL DRAWING &amp; DESIGN CAREER PATHWAY</b>			
48.5410099	<b>INTRODUCTION TO DRAFTING AND DESIGN:</b>	The Introduction to Drafting and Design course is the foundational course under both the Engineering Drafting and Design as well as the Architectural Drawing and Design pathways and prepares students for a pursuit of any career in the field of construction, Architecture or Engineering. The course provides the basic knowledge to function safely on or around a construction site and in industry in general.	
48.5450099	<b>ARCHITECTURAL DRAWING AND DESIGN I Y</b>	This course introduces students to the basic terminology, concepts, and principles of architectural design. Emphasis is placed on house designs, floor plans, roof designs, elevations, sections, details, and foundations. This is the second course in the <u>Engineer Drawing &amp; Design</u> pathway.	
48.5460099	<b>ARCHITECTURAL DRAWING AND DESIGN II Y</b>	introduces students to the basic terminology, concepts, and principles of architectural design. Emphasis is placed on commercial designs, floor plans, roof designs, elevations, sections, details, and foundations. This is the second course in the <u>Architectural Drawing &amp; Design</u> pathway.	
48.5470099	<b>STRUCTURAL DETAILING Y</b>	This course introduces the student to the basic terminology, concepts, and principles of commercial building construction design. Areas of study include concrete, masonry, <u>steel and wood building construction</u> .	
48.5480099	<b>CIVIL ENGINEERING DRAWING Y</b>	This course introduces students to the basic terminology, concepts and principles of Civil Engineering Drawing. Drawing assignments emphasize the most common <u>map;ing and civil site planning design problems</u> .	

**ELECTRONICS/TELECOMMUNICATIONS CAREER PATHWAY**

21.4530099	<b>ADVANCED AC and DC CIRCUITS</b>  (will not be offered after 2018-19)	As the second course in the Electronics Pathway, this course is designed for students interested in careers related to the design, production, analysis, repair, and operation of devices that use electronics. The course is designed around major individual and class projects that promote critical thinking, real world problem solving, and abstract reasoning that encourage the student to become an investigative lifelong learner. Students will create artifacts that demonstrate application of competencies in technical, academic, cognitive, and personal skills through daily work, team work, and homework, formative and informative assessments. The prerequisite for this course is Foundations of Electronics.	
21.4540099	<b>DIGITAL ELECTRONICS</b>  (will not be offered after 2018-19)	In this class students have the opportunity to apply prior learning in electronics. Applying math and science to predict the success of an engineered solution and complete hands-on activities with tools, materials, and processes as they develop functional devices and working prototypes. Basic telephone, cable, modular connectors; central office and telephone trouble-shooting prepare students for Telecommunications. Students will construct projects (CAT 5 cable testers, coax and transmission line testers along with a fiber optic tester) that will be used in Telecommunications.	
10.5310099	<b>TELECOMMUNICATIONS</b>  (will not be offered after 2018-19)	This course is comprised of microwave receiving and transmission, global positioning systems, and data communication. The course includes extensive hands-on instruction and curriculum delivery via leading edge on-line curriculum offered by the NIDA Corporation, which is a primary supplier of United States military telecommunications training programs. This course prepares students for continued post-secondary telecommunications education and preparation in the field of electrical engineering.	

**AUDION/VIDEO TECHNOLOGY AND FILM PATHWAY**

10.5181099	<b>AUDIO VIDEO TECHNOLOGY AND FILM I</b>	This course will serve as the foundational course in the Audio & Video Technology & Film pathway. The course prepares students for employment or entry into a postsecondary education program in the audio and video technology career field. Topics covered may include, but are not limited to terminology, safety, basic equipment, script writing, production teams, production and programming, lighting, recording and editing, studio production, and professional ethics. Skills USA, the Georgia Scholastic Press Association, Technology Student Association (TSA) and 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. All material covered in Audio & Video Technology & Film I will be utilized in subsequent courses.	
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10.5191099	<b>AUDIO VIDEO TECHNOLOGY AND FILM II</b>	This one credit course is the second in a series of three that prepares students for a career in Audio Video Technology and Film production and/or to transfer to a postsecondary program for further study. Topics include Planning, Writing, Directing and Editing a Production; Field Equipment Functions; Operational Set-Up and Maintenance; Advanced Editing Operations; Studio Productions; Performance; Audio/Video Control Systems; Production Graphics; Career Opportunities; and Professional Ethics. Skills USA, the Georgia Scholastic Press Association, Technology Student Association (TSA) and 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.	
10.5201099	<b>AUDIO VIDEO TECHNOLOGY AND FILM III</b>	This one-credit transition course is designed to facilitate student-led projects under the guidance of the instructor. Students work cooperatively and independently in all phases of production. Skills USA, the Georgia Scholastic Press Association, Technology Student Association (TSA), and 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.	
10.5141099	<b>AUDIO VIDEO TECHNOLOGY AND FILM IV</b>	This one-credit transition course is designed to facilitate student-led projects under the guidance of the instructor. Students work cooperatively and independently in all phases of production. Skills USA, the Georgia Scholastic Press Association, Technology Student Association (TSA), and 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.	

**PLANT AND LANDSCAPE SYSTEMS PATHWAY**

2.4710099	<b>BASIC AGRICULTURAL SCIENCE AND TECHNOLOGY</b>	This course introduces the major areas of scientific agricultural production and research; presents problem solving lessons and introductory skills and knowledge in agricultural science and agri-related technologies. This is the first course in the “Plant Science/Horticulture Career Pathway
1.4610099	<b>GENERAL HORTICULTURE AND PLANT SCIENCE Y</b>	This course introduces the major concepts of plant and horticulture science. Students will learn how to plant, water, fertilize and propagate vegetables, flowers and other plants. Hands on activities in the greenhouse and on campus will prepare students with basic skills and knowledge to be used at home and on the job. This is the second course in the “Plant Science/Horticulture Career Pathway.”
1.4700099	<b>NURSERY AND LANDSCAPE Y</b>	This course is the study of basic landscape design with general emphasis on horticulture related topics including vegetables, flowers, shrubs, trees, and greenhouse production. This course provides students with the basic skills utilized by the green in nursery production and management and landscape design and management. industry. This is the 3rd course in the “Plant Science/Horticulture Career Pathway.

**AGRIBUSINESS DIVERSIFIED AG PATHWAY**

2.4710099	<b>BASIC AGRICULTURAL SCIENCE AND TECHNOLOGY</b>	This course introduces the major areas of scientific agricultural production and research; presents problem solving lessons and introductory skills and knowledge in agricultural science and agri-related technologies. This is the first course in the “Plant Science/Horticulture Career Pathway
1.4120099	<b>AG LEADERSHIP</b>	The Agribusiness Management and Leadership course provides a foundation for students interested in pursuing a degree in agribusiness through post-secondary study or to enter the Agribusiness industry upon graduation from high school. The student will demonstrate competence in the application of principles and practices of agribusiness management and leadership. The course will help students build a strong knowledge base of the agribusiness industry as they study agribusiness types, business management, financial analysis, communications, agricultural law, leadership and teamwork, ethics, and agricultural economics. Mastery of these standards through project-based learning and leadership development activities in the FFA and supervised agricultural experience program will help prepare students for post-secondary study or entry into agribusiness
1.4130099	<b>AGRICULTURAL MARKETING</b>	The Marketing Agricultural Products and Services course provides the foundation for students interested in pursuing a degree in agribusiness through post-secondary study or to enter the Agribusiness industry upon graduation from high school. The student will demonstrate competence in the application of the principles and practices of marketing in agribusiness. The course will help students build a strong knowledge base of the agribusiness industry as they study methods and strategies of marketing agricultural products and services, principles of salesmanship, customer service, business organization, advertising, event planning, channels of distribution, investment analysis, finance, entrepreneurship, technology, communications and economics.

**CULINARY ARTS**

20.5310099	<b>INTRODUCTION TO CULINARY ARTS:</b>	Introduction to Culinary Arts is a course designed to introduce students to fundamental food preparation terms, concepts, and methods in Culinary Arts where laboratory practice will parallel class work, fundamental techniques, skills, and terminology are covered and mastered with an emphasis on basic kitchen and dining room safety, sanitation, equipment maintenance and operation procedures. Course also provides an overview of the professionalism in the culinary industry and career opportunities leading into a career pathway to Culinary Arts.	
20.5321099	<b>CULINARY ARTS I</b>	Culinary Arts 1 is designed to create a complete foundation and understand of Culinary Arts leading to postsecondary education or a foodservice career. Building from techniques and skills learned in Foundation of Culinary Arts, this fundamentals course beings to involve in-depth knowledge and hands on skill mastery of Culinary Arts.	
20.5331099	<b>CULINARY ARTS II</b>	Culinary Arts 2 is an advanced and rigorous in-depth course designed for the student who has continued the Culinary Arts Pathway and wishes to continue their education at the postsecondary level or enter the foodservice industry as a proficient and well-rounded individual. Strong importance is given to refining hands on production of the <u>classis fundamentals in the commercial kitchen.</u>	
20.0372099 (I), 20.0382099 (II)	<b>WORK PROGRAM FOR CULINARY ARTS:</b>	Offers a work-based curriculum through employment in a community business. Students are released daily (4th block) for community based employment/training in foodservice related job. An average of 15 on-the-job hours is required during each school week for 1 unit of credit. Only junior and senior may submit an application. Personal means of transportation to employment site is required.	

**THERAPEUTIC SERVICES/ALLIED HEALTH AND MEDICINE**

25.5210099	<b>INTRO TO HEALTHCARE SCIENCE</b>	This course is a foundation course for ALL of the Healthcare Science courses offered at Wheeler High School. It is designed to introduce students to a variety of healthcare delivery systems and the career opportunities available in each. It also helps students develop skills and attitudes necessary to succeed in the healthcare industry. Students will learn medical terminology, microbiology, and safety skills regulated by OSHA. Students will also learn basic first aid and basic life support.	
25.4400099	<b>ESSENTIALS OF HEALTHCARE</b>  (also receive credit for Anatomy)	The Essentials of Healthcare is a medical-focused anatomy course addressing the physiology of each body system, along with the investigation of common diseases, disorders and emerging diseases. The prevention of disease and the diagnosis and treatment that might be utilized are addressed, along with medical terminology related to each system. This course provides an opportunity to demonstrate technical skills that enforce the goal of helping students make connections between medical procedures and the pathophysiology of diseases and disorders.  <b><i>**Please note that the Essentials of Healthcare course also has an embedded credit for Anatomy. Students will receive credit on their transcript for both courses (even though it will only be one block on their schedule), unless the student has previously completed an anatomy course. Students will receive the same final grade for both courses.</i></b>	
25.4400003	<b>HONORS ESSENTIALS OF HEALTHCARE</b>  (also receive credit for Honors Anatomy)	The Essentials of Healthcare is a medical-focused anatomy course addressing the physiology of each body system, along with the investigation of common diseases, disorders and emerging diseases. The prevention of disease and the diagnosis and treatment that might be utilized are addressed, along with medical terminology related to each system. This course provides an opportunity to demonstrate technical skills that enforce the goal of helping students make connections between medical procedures and the pathophysiology of diseases and disorders.  <b><i>**Please note that the Honors Essentials of Healthcare course also has an embedded credit for Honors Anatomy. Students will receive credit on their transcript for both courses (even though it will only be one block on their schedule), unless the student has previously completed an anatomy course. Students will receive the same final grade for both courses.</i></b>	0.5 QP

25.5250099	<b>ALLIED HEALTH AND MEDICINE</b>	<p>This 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 various allied health opportunities. Students focusing on a career path in the healthcare field may apply classroom/lab knowledge and skills in the clinical setting as they participate in direct or simulated client care. The curriculum allows instructors to provide options for classroom/student growth opportunities in area(s) of interest to the student. These options may be determined by community need, available resources, and/or student interest, etc. This course was developed according to a basic 50-minute class time frame, but may be adjusted according to local system schedules. Instructors may select which classroom content standards 1-14 best meet his/her individual classroom needs in addition to the required clinical/capstone project to equal total class time available for the course.</p>	
<b>THERAPEUTIC SERVICES/EMERGENCY MEDICAL RESPONDER</b>			
25.5210099	<b>INTRO TO HEALTHCARE SCIENCE</b>	<p>This course is a foundation course for ALL of the Healthcare Science courses offered at Wheeler High School. It is designed to introduce students to a variety of healthcare delivery systems and the career opportunities available in each. It also helps students develop skills and attitudes necessary to succeed in the healthcare industry. Students will learn medical terminology, microbiology, and safety skills regulated by OSHA. Students will also learn basic first aid and basic life support.</p>	
25.4400099	<b>ESSENTIALS OF HEALTHCARE</b>  <b>(also receive credit for Anatomy)</b>	<p>The Essentials of Healthcare is a medical-focused anatomy course addressing the physiology of each body system, along with the investigation of common diseases, disorders and emerging diseases. The prevention of disease and the diagnosis and treatment that might be utilized are addressed, along with medical terminology related to each system. This course provides an opportunity to demonstrate technical skills that enforce the goal of helping students make connections between medical procedures and the pathophysiology of diseases and disorders.</p> <p><b><i>**Please note that the Essentials of Healthcare course also has an embedded credit for Anatomy. Students will receive credit on their transcript for both courses (even though it will only be one block on their schedule), unless the student has previously completed an anatomy course. Students will receive the same final grade for both courses.</i></b></p>	

25.4400003	<b>HONORS ESSENTIALS OF HEALTHCARE</b>  <b>(also receive credit for Honors Anatomy)</b>	<p>The Essentials of Healthcare is a medical-focused anatomy course addressing the physiology of each body system, along with the investigation of common diseases, disorders and emerging diseases. The prevention of disease and the diagnosis and treatment that might be utilized are addressed, along with medical terminology related to each system. This course provides an opportunity to demonstrate technical skills that enforce the goal of helping students make connections between medical procedures and the pathophysiology of diseases and disorders.</p> <p><b><i>**Please note that the Honors Essentials of Healthcare course also has an embedded credit for Honors Anatomy. Students will receive credit on their transcript for both courses (even though it will only be one block on their schedule), unless the student has previously completed an anatomy course. Students will receive the same final grade for both courses.</i></b></p>	0.5 QP
25.4500099	<b>EMERGENCY MEDICAL RESPONDER</b>	<p>The Emergency Medical Responder (EMR) course prepares the student to provide initial stabilizing care to the sick or injured prior to the arrival of Emergency Medical Services Professionals (EMS), and to assist EMS personnel in transporting patients for definitive care at an appropriate hospital/facility. Major areas of instruction include Introductory Medical Terminology and Anatomy &amp; Physiology; Responder Safety; Incident Command; Blood-borne Pathogen Training; Basic Physical Assessment; and Treatment of Trauma and Medical Emergencies; Cardiopulmonary Resuscitation and the use of Automatic External Defibrillators (AEDs). The course is a blend of lecture, hands on lab/learning, and practical scenario-based learning/testing. The course will include Healthcare Provider CPR/AED Certification from a Nationally-Recognized Body (American Heart Association or Red Cross, etc.). If this course is also approved by the Georgia State Office of Emergency Medical Services and Trauma (SOEMST), successful completion will allow the student to be eligible to take the National Registry of Emergency Medical Technicians (NREMT) Emergency Medical Responder (EMR) certification.</p>	
<b>PATIENT CARE PATHWAY</b>			
25.5210099	<b>INTRO TO HEALTHCARE SCIENCE</b>	<p>This course is a foundation course for ALL of the Healthcare Science courses offered at Wheeler High School. It is designed to introduce students to a variety of healthcare delivery systems and the career opportunities available in each. It also helps students develop skills and attitudes necessary to succeed in the healthcare industry. Students will learn medical terminology, microbiology, and safety skills regulated by OSHA. Students will also learn basic first aid and basic life support.</p>	

25.440099	<b>ESSENTIALS OF HEALTHCARE</b>  <b>(also receive credit for Anatomy)</b>	<p>The Essentials of Healthcare is a medical-focused anatomy course addressing the physiology of each body system, along with the investigation of common diseases, disorders and emerging diseases. The prevention of disease and the diagnosis and treatment that might be utilized are addressed, along with medical terminology related to each system. This course provides an opportunity to demonstrate technical skills that enforce the goal of helping students make connections between medical procedures and the pathophysiology of diseases and disorders.</p> <p><b><i>**Please note that the Essentials of Healthcare course also has an embedded credit for Anatomy. Students will receive credit on their transcript for both courses (even though it will only be one block on their schedule), unless the student has previously completed an anatomy course. Students will receive the same final grade for both courses.</i></b></p>	
25.440003	<b>HONORS ESSENTIALS OF HEALTHCARE</b>  <b>(also receive credit for Honors Anatomy)</b>	<p>The Essentials of Healthcare is a medical-focused anatomy course addressing the physiology of each body system, along with the investigation of common diseases, disorders and emerging diseases. The prevention of disease and the diagnosis and treatment that might be utilized are addressed, along with medical terminology related to each system. This course provides an opportunity to demonstrate technical skills that enforce the goal of helping students make connections between medical procedures and the pathophysiology of diseases and disorders.</p> <p><b><i>**Please note that the Honors Essentials of Healthcare course also has an embedded credit for Honors Anatomy. Students will receive credit on their transcript for both courses (even though it will only be one block on their schedule), unless the student has previously completed an anatomy course. Students will receive the same final grade for both courses.</i></b></p>	0.5 QP

25.4500099	<b>PATIENT CARE FUNDAMENTALS</b>	<p>This course is designed to provide students interested in the careers that involve patient care with entry level skills most commonly associated with the career Nursing Assistant. 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), Center for Disease Control (CDC), and the Department of Health and Human Services (HHS) with a specific focus on the Omnibus Budget Reconciliation Act of 1987 (OBRA) and the Health Insurance Portability and Accountability Act of 1996 (HIPAA). Upon completion of this course and its prerequisites, this course meets the Certified Nurse Assistant curriculum content as specified by the Georgia Medical Care Foundation. Students meeting all academic, attendance, and age requirements may sit for the Georgia Registry's Examination. Successful completion of the Georgia Registry Examination allows students to seek employment in the state of Georgia as a Certified Nurse Assistant.</p>	
<b>PUBLIC HEALTH PATHWAY</b>			
25.5210099	<b>INTRO TO HEALTHCARE SCIENCE</b>	<p>This course is a foundation course for ALL of the Healthcare Science courses offered at Wheeler High School. It is designed to introduce students to a variety of healthcare delivery systems and the career opportunities available in each. It also helps students develop skills and attitudes necessary to succeed in the healthcare industry. Students will learn medical terminology, microbiology, and safety skills regulated by OSHA. Students will also learn basic first aid and basic life support.</p>	



25.4400099	<b>ESSENTIALS OF HEALTHCARE</b>  <b>(also receive credit for Anatomy)</b>	<p>The Essentials of Healthcare is a medical-focused anatomy course addressing the physiology of each body system, along with the investigation of common diseases, disorders and emerging diseases. The prevention of disease and the diagnosis and treatment that might be utilized are addressed, along with medical terminology related to each system. This course provides an opportunity to demonstrate technical skills that enforce the goal of helping students make connections between medical procedures and the pathophysiology of diseases and disorders.</p> <p><b><i>**Please note that the Essentials of Healthcare course also has an embedded credit for Anatomy. Students will receive credit on their transcript for both courses (even though it will only be one block on their schedule), unless the student has previously completed an anatomy course. Students will receive the same final grade for both courses.</i></b></p>	
25.4400003	<b>HONORS ESSENTIALS OF HEALTHCARE</b>  <b>(also receive credit for Honors Anatomy)</b>	<p>The Essentials of Healthcare is a medical-focused anatomy course addressing the physiology of each body system, along with the investigation of common diseases, disorders and emerging diseases. The prevention of disease and the diagnosis and treatment that might be utilized are addressed, along with medical terminology related to each system. This course provides an opportunity to demonstrate technical skills that enforce the goal of helping students make connections between medical procedures and the pathophysiology of diseases and disorders.</p> <p><b><i>**Please note that the Honors Essentials of Healthcare course also has an embedded credit for Honors Anatomy. Students will receive credit on their transcript for both courses (even though it will only be one block on their schedule), unless the student has previously completed an anatomy course. Students will receive the same final grade for both courses.</i></b></p>	0.5 QP
25.4520099	<b>APPLICATIONS OF PUBLIC HEALTH</b>	<p>The standards for the Public and Community Health pathway apply to occupations or functions involved primarily in environmental health, community health and health education, epidemiology, disaster management, and geriatrics. The standards specify the knowledge and skills needed by professionals pursuing careers in this pathway. Sample occupations associated with this pathway are Community Health Worker, Community Health Worker, Epidemiologist, Health Educator, Advocate, and Environmentalist. The prerequisites for this course are Introduction to Healthcare Science Technology and Essentials of Healthcare.</p>	
<b>SPORTS &amp; ENTERTAINMENT MARKETING PATHWAY</b>			

08.4740099	<b>MARKETING PRINCIPLES</b>	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.	
08.4780099	<b>INTRO TO SPORTS &amp; ENTERTAINMENT MARKETING</b>	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.	
08.4850099	<b>ADVANCED SPORTS &amp; ENTERTAINMENT MARKETING</b>  <b>(coming in 2019-20)</b>	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.	

**JROTC CAREER PATHWAY**

28.0110099	<b>JROTC AIR FORCE I</b>	This course begins the study and practice of leadership. This includes military heritage, organization, traditions and their relationship to the mission of business and the importance of teamwork. Personal behavior and responsibility are studied to develop ethics and time management skills. The examination of flight and its relationship to current events begins with the heritage of flight and proceeds through WWII.	
28.0120099	<b>JROTC AIR FORCE II</b>	The study and practice of leadership continues with the study of government and citizenship in the United States to include customs, courtesies duties and rights, and different forms of government throughout the world. The study of aviation history also continues with the post WWII years and progresses through Desert Shield/Desert Storm.	
28.0130099	<b>JROTC AIR FORCE III</b>	Intercommunication skills and corps activities are emphasized in this year of leadership study. The course begins with developing an understanding of the purpose of and preparing oral and written communication. Study develops understanding of individual behavior to include personality, emotions, defense mechanism, and value systems. Aerospace sciences are also studied. The cadet begins with developing knowledge of the atmosphere and proceeds through weather elements, forecasting, physiology of flight, aerospace medicine, human engineering, and the development of protective equipment and simulators.	
28.0140099	<b>JROTC AIR FORCE IV</b>	Intercommunication and corps skills development continues. Emphasis is placed on understanding group behavior and basic leadership concepts. Study begins with qualities and principles necessary for effective leadership and continues through situational leadership, follower ship and building teamwork. Aerospace science begins with basic aeronautics and continues through understanding aircraft motion and control. Basic engine principles, facts and general operating principles of rocket engines, civilian and military aerospace vehicles, and principles of navigation.	
28.0150099	<b>JROTC AIR FORCE V</b>	Leadership education emphasized life skills. Study begins with understanding benefits of higher education and the importance of obtaining a higher degree or skill after high school to include development of an understanding of the college selection process and financial aide. Emphasis then moves to the job search. Comprehension of the job search process and the skills requirements to the application process are the foundation used to develop resume skills and interviewing techniques. The study of the exploration of space starts with rocket boosters and orbital mechanics. Then it moves to American space programs and their development to include man's journey to the Moon. From there, our solar system and the origins of space are studied.	

28.0160099	<b>JROTC AIR FORCE VI</b>	Life skills student continues with financial planning; its background, the credit trap, banking and spending decisions, savings, investments and insurance, and the development of real life issues, understanding to include citizenship responsibilities. From here, career opportunities are studied with research into selecting the right career path and development of a basic understanding of federal government employment to include the military and the aerospace industry. Exploration of space studies continues with what it takes to survive and live in space along with development of an understanding of the physiological results of manned space flight. Emphasis turns to the development of the space shuttle, commercial use of the space program and the development of space stations.	
28.0170099	<b>JROTC AIR FORCE VII</b>	The course emphasizes the principles of management. Study begins with management history, its importance, principles and functions. Then emphasis moves to developing a comprehension of personal coping mechanisms for conflicts in values and comprehension of management skills, roles, and performance that influences managerial behavior. This includes learning the importance of delegation skills and their uses.	
28.0180099	<b>JROTC AIR FORCE VIII</b>	Principles of management study continues with management problem solving, decision making, negotiation, and mentoring. From here, emphasis is placed on the management of self and others. This area first looks at the management of self-development and then moves on to time management, information management, people management, and an understanding of the importance of people skills.	
28.0180096	<b>JROTC AIR FORCE VIIIA</b>	The “Cultural Studies” course is an introduction to global awareness as it pertains to today’s socio-economic environment. The course begins with an introduction to the Middle East as the Cradle of Western Civilization to include religion, and different groups of people. It then moves into the Arab-Israeli Conflict, the Persian Gulf Wars, Islamic Fundamentalism/Terrorism, Asia and Africa. Principles of emphasis moves to developing a comprehension of coping mechanisms and skills, rolls, and performance that influences managerial behavior.	
28.0180097	<b>JROTC AIR FORCE VIIIB</b>	Global Awareness Study continues with Russia and the former Soviet Republics, Latin America, and Europe. National, Regional, and different groups are studied with an insight into cultures, history, and socio-economic interests. Principles of Management study continues with management problem solving, decision making, negotiation, and mentoring. From here, emphasis is placed on the management of self and others. This includes self-development, time management, information management, people management, and the importance of people skills.	

**\*\*ALL ROTC COURSES REQUIRE PRIOR INSTRUCTOR APPROVAL.**

**CAREER TECHNICAL MENTORSHIP AND INTERNSHIP**

<b>COURSE #</b>	<b>COURSE NAME</b>	<b>DESCRIPTION</b>	<b>QUALITY POINTS</b>
70.0110099 (I), 70.0120099 (II), 70.0110096 (.5 F), 70.0110097 (.5 S)	<b>CAREER TECHNICAL MENTORSHIP I and II</b>	Interested in being an aide in one of the administrative offices? This course is designed to provide the student with skills required for successful performance in an administrative support position. This course will include training and work based experience in a school office environment. Students may earn up to 2 units. Minimum day and internship students will not be considered for this program.	
70.4210099	<b>INTERNSHIP/WBL (Work Based Learning)</b>	Opportunities exist for selected students who wish to explore specific career fields with on-site mentors in community business settings. The Work-based Coordinator visits the job mentor to assess student performance and supervises the student in job search skill development. The student maintains a weekly journal, records of weekly hours on the job and must complete program participation forms. Only juniors and seniors may submit an application. Personal means of transportation to internship site is required. Students leave campus after third block.	

**OTHER COURSES**

<b>COURSE #</b>	<b>COURSE NAME</b>	<b>DESCRIPTION</b>	<b>QUALITY POINTS</b>
	<b>AVID (application and interview required)</b>	AVID is a college readiness system designed to prepare self-determined students, who have demonstrated average achievement for college readiness. The program enrolls students in rigorous courses and provides them intensive support to ensure their success. The major component is a daily AVID elective class that students must attend. During this class, students receive training in effective note taking, organizational skills, and goal-setting strategies. Extensive writing and reading instruction is also provided. AVID students are academically capable students who would typically be the first in their families to attend college. Placement is done through an application and interview process.	
70.0410099 RISE I, 70.0420099 RISE II	<b>COMMUNITY SERVICE/LEARNING I (RISE)</b>	Students have the opportunity to work at an elementary schools to tutor students using the Reading Is Succeeding Everyday (RISE) program. Wheeler students will meet with two elementary students each for a 30-minute period and help these students overcome reading difficulties	
35.0630016	<b>GRADPOINT</b>	GradPoint is an online course recovery program that requires note taking and full time engagement in daily work. To qualify, students must have failed with a 60% or higher, possess basic computer skills, have excellent attendance, adequate reading skills, and self-discipline. Priority is given to seniors.	
00.1213000 (Fall), 00.1212000 (Spring)	<b>MINIMUM DAY</b>	minimum day is offered 1st and 4th period to seniors who have passed all areas of the GHSGT. You must have a parent permission slip signed and see your counselor to register for this period off. It will be scheduled 1st or 4th depending on the other courses you request and the overall master schedule. Students must have their own transportation and must not remain on campus after block 3 or arrive before block 2.	