

2010-2011 WHEELER HIGH SCHOOL COURSE OFFERING CATALOG

PLEASE NOTE:

QP=QUALITY POINT

Team Taught courses, (T), have the same content but are team taught with a special education teacher to make adjustments in methodology and/or management.

ENGLISH

COURSE #	COURSE /DESCRIPTION	GRADE	CREDIT	PREREQUISITE
23.0610007 (Honors)	NINTH GRADE LIT/COMP HONORS: 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.	9	1 UNIT	8 th Grade Teacher Recommendation
23.0610011 23.9610015 (T)	NINTH GRADE LIT/COMP Y: This is a college prep class which integrates composition, grammar, and literature. It covers the writing process; the development of vocabulary, speaking, listening, and researching skills will also be included.	9	1 UNIT	NONE
23.0828011	READ 180: 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.	9	1 UNIT	Teacher Recommendation Only
23.0520003 Y 23.0520000 A 23.0520001 B	HONORS ENGLISH LIT/COMP Y (BRITISH LIT): 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.	10	1 UNIT A & B .5 Units Each .5 QP	Teacher Recommendation & 9 th Lit. HONORS
23.0620011 23.9620015 (T)	TENTH GRADE LIT/COMP Y: This course is designed for the college-bound student. It will include the study of mythology with emphasis on Greek and Roman. Drama, poetry, non-fiction, and the novel will also be studied. Composition will be integrated into the study of the literature. Various types of essays and their development will be covered. Literary terms, vocabulary, and grammar concepts will be incorporated into the curriculum; additionally, the development of speaking and listening skills will be included.	10	1 UNIT	9 th Grade Lit/Comp

COURSE #	COURSE /DESCRIPTION	GRADE	CREDIT	PREREQUISITE
23.0510003	HONORS AMERICAN LIT/COMP Y: This is an accelerated college- prep class which 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.	11	1 UNIT .5 QP	Teacher Recommendation HONORS BRIT. LIT
23.0510011 23.9510015 (T)	AMERICAN LIT/COMP Y: This course is designed for the college-bound students and 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.	11	1 UNIT	9th Grade Lit/Comp & Tenth Grade Lit.
23.0630003 Honors	HONORS WORLD LIT/COMP Y: 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.	12	1 UNIT .5 QP	American Lit/Comp & Honors Amer. Lit/Comp.
23.0520011 23.9520015(T)	SENIOR BRIT. LIT/COMP Y: This course will survey British works and authors from the Anglo-Saxon age through the Contemporary age and prepare the college-bound student for specific writing experiences such as exposition, analysis of literature, and literary criticism. Structure and style will vary from informal to formal writing and will include a research paper which will be connected to the approved Senior Project topic. Literary terms, vocabulary study, composition techniques, speaking and listening activities, and parallel readings will be incorporated.	12	1 UNIT	American Lit/Comp
23.0670099	MULTICULTURAL LIT/COMP Y: This course focuses on works by and about people of diverse ethnic backgrounds (African, African-American, Native American, Asian, Hispanic/Latin). It stresses exploring themes of linguistic and cultural diversity and developing critical thinking skills through class discussion and oral and written presentations. Structure and style will vary from informal to formal writing and will include a research paper which will be connected to the approved Senior Project topic.	12	1 UNIT	American Lit/Comp

COURSE #	COURSE /DESCRIPTION	GRADE	CREDIT	PREREQUISITE
23.0530095 (Offered as alternating block with AP US History)	AP LANGUAGE/AM LIT HONORS Y: 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.	11	1 UNIT 1 QP	Teacher Recommendation and HONORS BRIT. LIT.
23.0650095 (Offered as a full block and as alternating Block)	AP LIT/COMP Y: 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.	12	1 UNIT 1 QP	Teacher Recommendation AM. LIT HONORS

ESOL

COURSE #	COURSE /DESCRIPTION	GRADE	CREDIT	PREREQUISITE
23.0610099	ESOL NINTH GRADE LIT/COMP Y: This course is designed for the college-bound student. The semester will have a balance of composition, grammar, and literature. The development of vocabulary, speaking, listening, and research skills will be included.	9	1 UNIT	ESOL status
23.0620099	ESOL TENTH GRADE LIT/COMP Y: This course is designed for the college-bound student. It will include the study of mythology with emphasis on Greek and Roman. Drama, poetry, non-fiction, and the novel will also be studied. Composition will be integrated into the study of the literature. Various types of essays and their development will be covered. Literary terms, vocabulary, and grammar concepts will be incorporated into the curriculum; additionally, the development of speaking and listening skills will be included.	10	1 UNIT	9th Grade Lit/Comp & ESOL status

COURSE #	COURSE /DESCRIPTION	GRADE	CREDIT	PREREQUISITE
23.0510099	ESOL AMERICAN LIT/COMP Y: This course is designed for the college-bound students and 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.	11	1 UNIT	9th Grade Lit Tenth Grade Lit & ESOL status
23.0630099	ESOL WORLD LIT/COMP Y: 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. As Honors the pace of this course will move faster with more depth.	12	1 UNIT	American Lit/Comp & ESOL status
27.0810099	ESOL MATH 1: This is the first in the sequence of secondary mathematics courses designed to ensure that students are college and work ready. This course requires students to explore the characteristics of basic functions using tables, graphs, and simple algebraic techniques; operate with radical, polynomial, and rational expressions; solve a variety of equations, including quadratic equations with a leading coefficient of one, radical equations, and rational equations; investigate properties of geometric figures in the coordinate plane; use the language of mathematical argument and justification; discover, prove, and apply properties of polygons; utilize counting techniques and determine probability; use summary statistics to compare samples to populations; and explore the variability of data.	9	1 UNIT	IEL or ESOL status
27.0440099	ESOL MATH SUPPORT I: The purpose of the Math Support course is to address the needs of students who have traditionally struggled in mathematics by providing the additional time and attention that they need in order to successfully complete their regular grade-level mathematics course without failing. Math Support is an elective class and is taught concurrently with a student's regular Math I course.	9	1 UNIT	IEL or ESOL status
27.0820099	ESOL MATH II: This is the second in the sequence of secondary mathematics courses designed to ensure that students are college and work ready. This course requires students to: represent and operate with complex numbers; use numerical, graphical, and algebraic techniques to explore quadratic, exponential, and piecewise functions and to solve quadratic, exponential and absolute value equations and inequalities; use algebraic models to represent and explore real phenomena; explore inverses of functions; use right triangle trigonometry to formulate and solve problems; discover, justify and apply properties of circles and spheres; use sample data to make informal inferences about population means and standard deviations; and fit curves to data and examine the issues related to curve fitting.	10	1 UNIT	ESOL status

COURSE #	COURSE /DESCRIPTION	GRADE	CREDIT	PREREQUISITE
27.0450099	ESOL MATH SUPPORT II: The purpose of the Math 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 their regular grade-level mathematics course without failing. Mathematics Support is an elective class that should be taught concurrently with a student's regular Math II class.	10	1 UNIT	ESL status
26.0611099 (ESOL)	ENVIRONMENTAL SCIENCE: 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.	10-12	1 UNIT	1 Unit of Biology IEP Recommendation
40.0810099	ESOL PHYSICS I Y: This course introduces the relationships among 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.	10-12	1 UNIT	Math I 1 Unit of Science and ESOL status
26.0120099	ESOL BIOLOGY Y: Biology 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.	9-10	1 UNIT	1 Unit of Science & ESOL status
40.0510099	ESOL CHEMISTRY IY: Chemistry I is designed to introduce the student to how chemical principles and concepts are developed from observations and data, to understand and apply ordinary chemical and other scientific phenomena which he/she encounters in everyday activities, and to assist the student in appreciating the role of the chemist and the chemical industry in the evolution 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 developing unifying principles and concepts.	10-12	1 UNIT	Math I 1 Unit of Science and ESOL status
45.0711099	ESOL WORLD GEOGRAPHY: World Geography provides an overview of physical and cultural geography. An awareness of similarities and differences in human needs and behaviors is developed. Geographic education focuses on the themes of Location on Earth's surface, Place Characteristics, Relationships within places (Human Environments), Movement, and Regions that lead to an understanding of social, economic, historic, geographical, and physical features of the planet on which we live.	9	1 UNIT	ESOL status
45.0830099	ESOL WORLD HISTORY: World History 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 to present.	10	1 UNIT	ESOL status

COURSE #	COURSE /DESCRIPTION	GRADE	CREDIT	PREREQUISITE
45.0810099	ESOL U.S. HISTORY: United States History 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.	11-12	1 UNIT	ESOL status
45.0570098	AMERICAN GOVERNMENT: 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.	12	.5 UNIT	ESOL status
45.0610098	PRINCIPLES OF ECONOMICS: 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.	12	.5 UNIT	ESOL status
35.0061009	ESOL STUDY SKILLS: GHS GT PREP: This course focuses on information and strategies that will help ELLs develop an understanding of the skills required to be successful on the Georgia High School Graduation Tests.	10-12	1 UNIT	ESOL status
55.0210099	IEL: COMMUNICATION SKILLS I: 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 is to be offered in conjunction with IELI: Reading and listening in the Content Area.	9 - 12	1 UNIT	IEL status
55.0230099	IEL: READING AND LISTENING IN THE CONTENT AREA: 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 areas, science, social studies and mathematics. The suggested proficiency level is PL 1-03. This course is to be offered in conjunction with IEL I: Communications Skills I.	9-12	1 UNIT	IEL status
55.0211099	ESOL STUDY SKILLS: MATH SKILLS: This course focuses on information and strategies that will help ELLs develop an understanding of the skills required to be successful in Math.	9-12	1 UNIT	IEL or ESOL status

COURSE #	COURSE /DESCRIPTION	GRADE	CREDIT	PREREQUISITE
55.0250099	WRITING IN THE CONTENT AREA: 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.	9-10	1 UNIT	ESOL status
23.0840099	CURRENT TOPICS READING II (ESOL): This course focuses on reading 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.	10-11	1 UNIT	ESOL status
55.0220099	IEL II: COMMUNICATION SKILLS II: 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 on 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 course is to be paired with IEL II: Oral Communication in the Content Area.	9-12	1 UNIT	IEL status
55.0240099	IEL II: ORAL COMMUNICATION IN THE CONTENT AREAS: This course supports and enhances listening and speaking skills in the content areas and references the five basic WIDA Standards with emphasis on the listening and speaking skills in the content areas. The suggested proficiency level of the student is PL 1-3. This course is to be offered in conjunction with IEL II: Communications Skills II.	9-12	1 UNIT	IEL status
55.0212099	ESOL STUDY SKILLS: SCIENCE SKILLS: This course focuses on information and strategies that will help ELLs develop an understanding of the skills required to be successful in Science.	9	1 UNIT	IEL or ESOL status

MATHEMATICS

COURSE #	COURSE /DESCRIPTION	GRADE	CREDIT	PREREQUISITE
	The following courses are for students who entered high school on or after August, 2008.			
27.0810011 Y or YL 27.9810015 Y (T)	MATH 1: This is the first in the sequence of secondary mathematics courses designed to ensure that students are college and work ready. This course requires students to explore the characteristics of basic functions using tables, graphs, and simple algebraic techniques; operate with radical, polynomial, and rational expressions; solve a variety of equations, including quadratic equations with a leading coefficient of one, radical equations, and rational equations; investigate properties of geometric figures in the coordinate plane; use the language of mathematical argument and justification; discover, prove, and apply properties of polygons; utilize counting techniques and determine probability; use summary statistics to compare samples to populations; and explore the variability of data.	9	1 UNIT	MATH 8 and Teacher Recommendation

COURSE #	COURSE /DESCRIPTION	GRADE	CREDIT	PREREQUISITE
27.0440011 YL 27.9440015 YL (T)	MATH SUPPORT I: The purpose of the Math Support course is to address the needs of students who have traditionally struggled in mathematics by providing the additional time and attention that they need in order to successfully complete their regular grade-level mathematics course without failing. Math support is an elective class and is taught concurrently with a student's regular Math I course.	9	1 UNIT	MATH 8 and Teacher Recommendation
27.0820011 Y or YL 27.9820015 Y or YL (T)	MATH II: This is the second in the sequence of secondary mathematics courses designed to ensure that students are college and work ready. This course requires students to: represent and operate with complex numbers; use numerical, graphical, and algebraic techniques to explore quadratic, exponential, and piecewise functions and to solve quadratic, exponential and absolute value equations and inequalities; use algebraic models to represent and explore real phenomena; explore inverses of functions; use right triangle trigonometry to formulate and solve problems; discover, justify and apply properties of circles and spheres; use sample data to make informal inferences about population means and standard deviations; and fit curves to data and examine the issues related to curve fitting.	9-10	1 UNIT	MATH I or Accelerated Math I
27.0450011 YL 27.9450015 YL (T)	MATH SUPPORT II: The purpose of the Math 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 their regular grade-level mathematics course without failing. Mathematics Support is an elective class that should be taught concurrently with a student's regular Math II class.	9-10	1 UNIT	MATH I or Accelerated Math I
27.0830011 Y or YL 27.9830015 Y or YL (T)	MATH III: This is the third course in the new high school series based on Georgia Performance Standards. Students will investigate exponential, logarithmic and polynomial functions of degree higher than, explore and use matrices to solve problems; analyze graphs of polynomial functions of higher degree for symmetry, even, odd, or neither, and investigate and explain characteristics of such functions; extend properties of exponents to induce rational exponents; explore logarithmic functions as inverses of exponential functions; use the factor theorem, remainder theorem, rational root theorem, and fundamental theorem of algebra, incorporating complex and radical conjugates; solve linear programming problems in two variables; investigate equations and graphs of circles, parabolas, hyperbolas, and ellipses; create probability histograms of discrete random variables, using both experimental and theoretical probabilities, and interpret a normal distribution.	10-11	1 UNIT	Math II
27.0460011 YL 27.9460015 YL (T)	MATH SUPPORT III: The purpose of the Math 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 their regular grade-level mathematics course without failing. Mathematics Support is an elective class that should be taught concurrently with a student's regular Math 3 class.	10-11	1 UNIT	Math II

COURSE #	COURSE /DESCRIPTION	GRADE	CREDIT	PREREQUISITE
27.0840011	MATH IV: This is the fourth 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. It requires students to: investigate and use rational functions; analyze and use trigonometric functions, their graphs, and their inverses; find areas of triangles using trigonometric relationships; use trigonometric identities to solve problems and verify equivalence statements; solve trigonometric equations analytically and with technology; use complex numbers in trigonometric form; understand and use vectors; use sequences and series; explore parametric representations of plane curves; explore polar equations; investigate the Central Limit theorem; and use margins of error and confidence intervals to make inferences from data.	10-12	1 UNIT	Math III or Accelerated Math II
27.0910003	ACCELERATED MATH I: This is the first 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. It requires students to: represent and operate with complex numbers; explore the characteristics of basic functions utilizing tables, graphs, and simple algebraic techniques; operate with radical, polynomial, and rational expressions; solve equations, including quadratic, radical, and rational equations; investigate properties of geometric figures in the coordinate plane; use the language of mathematical argument and justification; discover, prove, and apply properties of polygons, circles and spheres; utilize counting techniques and determine probability; use summary statistics to compare samples to populations; explore variability of data; and fit curves to data and examine the issues related to curve fitting.	9	1 UNIT	MATH 8 and Teacher Recommendation
27.0920003	ACCELERATED MATH II: This is the second 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. It requires students to: explore the characteristics of exponential, logarithmic, and higher degree polynomial functions using tables, graphs, and algebraic techniques; explore inverses of functions; use algebraic models to represent and explore real phenomena; solve a variety of equations and inequalities using numerical, graphical, and algebraic techniques with appropriate technology; use matrices to formulate and solve problems; use linear programming to solve problems; use matrices to represent and solve problems involving vertex-edge; use right triangle trigonometry to formulate and solve problems; investigate the relationships between lines and circles; recognize, analyze, and graph the equations of conic sections; investigate planes and spheres; use sample data to make informal inferences about population means and standard deviations; solve problems by interpreting a normal distribution as a probability distribution; and design and conduct experimental and observational studies.	9-10	1 UNIT .5 QP	ACCELERATED MATH I or Math II

COURSE #	COURSE /DESCRIPTION	GRADE	CREDIT	PREREQUISITE
27.0930003	ACCELERATED MATH III: This is the third 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. It requires students to: investigate and use rational functions; analyze and use trigonometric functions, their graphs, and their inverses; find areas of triangles using trigonometric relationships; use trigonometric identities to solve problems and verify equivalence statements; solve trigonometric equations analytically and with technology; use complex numbers in trigonometric form; understand and use vectors; use sequences and series; explore parametric representations of plane curves; explore polar equations; investigate the Central Limit theorem; and use margins of error and confidence intervals to make inferences from data.	10-12	1 UNIT .5 QP	Accelerated Math II or Math III
27.0740095	AP STATISTICS Y: This course includes topics outlined by the College Board in which students learn to make decision based on real-world data. Students learn to plan studies and experiments using probability and simulation models to anticipate and predict patterns in data. Extensive use is made of calculators and computer software with statistical capabilities.	10-12	1 UNIT 1 QP	Math III or Accelerated Math II and Teacher Recommendation
27.0720095	AP CALCULUS (AB): This course conforms to the Advanced Placement of the College Board and includes algebraic relations, limits, derivatives of algebraic and transcendental functions and applications of derivatives as well as basic integrations and applications and methods of integration.	11-12	1 UNIT 1 QP	Math IV or Accelerated Math III and Teacher Recommendation (Fall Semester Only)
27.0730095	AP CALCULUS (BC): This course conforms to the Advanced Placement of the College Board and includes advanced techniques of integration, infinite series, plane curves, parametric equations, polar graphs, vector-valued functions and differential equations.	11-12	1 UNIT 1 QP	AP Calculus AB (Spring Semester Only)
	For students who entered high school prior to August, 2008.			
27.0620011 27.9620015 (T)	INFORMAL GEOMETRY: This course deals with problems involving basic geometric concepts, lines, triangles, quadrilaterals and polygons. Students explore problems involving circles, solids, similarity, transformations and deductive reasoning.	11-12	1 UNIT	Alg. I A and Alg. IB or its equivalent
27.0640011 27.9640015 (T)	INFORMAL ALGEBRA II Y: Students will study functions, linear, quadratic, rational and radical equations, sequences and series and statistics.	11-12	1 UNIT	Informal Geometry or Euclidean Geometry
27.0661011 27.9661015 (T)	ALGEBRA III Y: This course emphasizes realistic problems in concrete situations. Algebraic and geometric topics are approached using numerical methods and appropriate technology.	11-12	1 UNIT	Algebra II Or Informal Algebra II
27.0650007	ADVANCED ALGEBRA & TRIG Y: The major focus of study in this course is trigonometry, polar coordinates, sequences and series, conics, functions, statistics, and analytical geometry.	11-12	1 UNIT	Algebra II and Teacher Recommendation

COURSE #	COURSE /DESCRIPTION	GRADE	CREDIT	PREREQUISITE
27.0740095	AP STATISTICS Y: This course includes topics outlined by the College Board in which students learn to make decision based on real-world data. Students learn to plan studies and experiments using probability and simulation models to anticipate and predict patterns in data. Extensive use is made of calculators and computer software with statistical capabilities.	11-12	1 UNIT 1 QP	Algebra II and Teacher Recommendation
27.0710007 (Non AP)	CALCULUS Y: This course includes algebraic relations, limits derivatives, integrals and their applications. These topics are studied at a more intuitive than formal level.	11-12	1 UNIT .5 QP	Adv. Alg/Trig.
27.0720095	AP CALCULUS (AB): This course conforms to the Advanced Placement of the College Board and includes algebraic relations, limits, derivatives of algebraic and transcendental functions and applications of derivatives as well as basic integrations and applications and methods of integration.	11-12	1 UNIT 1 QP	Analysis and Teacher Recommendation (First Semester Only)
27.0730095	AP CALCULUS (BC): This course conforms to the Advanced Placement of the College Board and includes advanced techniques of integration, infinite series, plane curves, parametric equations, polar graphs, vector-valued functions and differential equations.	11-12	1 UNIT 1 QP	AP Calculus AB (Second Semester Only)
27.0720409	CALCULUS II: 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.	11-12	0.8 UNIT 1 QP	AP Calculus BC (Fall Semester Only)
27.0730515	CALCULUS III: 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.	11-12	0.8 UNIT 1 QP	Calculus II (Spring Semester Only)

SOCIAL STUDIES

COURSE #	COURSE /DESCRIPTION	GRADE	CREDIT	PREREQUISITE
45.0710003 (Honors) 45.0710011 45.9710015 (T) 45.0711099 (ESOL)	WORLD GEOGRAPHY: 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. The honors level course is designed for students who have proficiency in geographic skills and concepts.	9	1 UNIT	Four years of Social Studies is strongly recommended. Honors: Teacher Recommendation Required

45.0770095	AP HUMAN GEOGRAPHY: 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.	9	1 UNIT 1 QP	Teacher Recommendation Required
45.0830003 (Honors) 45.0830011 45.9830015 (T) 45.0830099 (ESOL)	WORLD HISTORY: 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. The honors level course is accelerated and designed for students interested in pursuing advanced social studies or careers in social studies.	10	1 UNIT Honors .5 QP	World Geography Recommended Honors: Teacher Recommendation Required
45.0811095	AP WORLD HISTORY: 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.	10-12	1 UNIT 1 QP	Honors World Geography or AP Human Geography Teacher Recommendation Required
45.0810003 (Honors) 45.0810011 45.9810015 (T) 45.0810099 (ESOL)	US HISTORY: 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. The honors level course is accelerated and designed for students interested in pursuing advanced social studies or careers in social studies.	11	1 UNIT Honors .5 QP	Honors: Teacher Recommendation Required
23.0530092-A (Fall) 23.0530093-B (Spring) 45.0820092-A (Fall) 45.0820093-B (Spring)	AMERICAN STUDIES: This course is a combination of AP US HISTORY and AP LANGUAGE, and is a cooperative effort between the Social Studies and English Departments wherein the curricula of both courses are blended to enhance the student's appreciation and awareness of both history and literature. Extensive reading and writing are required. Placement is determined by academic performance in both fields. This course fulfills the requirement toward graduation for United States History and American Literature. Students are expected to take the AP examinations.	11	2 UNITS 1 QP Each	AP World History Recommended Teacher Recommendation Required

COURSE #	COURSE /DESCRIPTION	GRADE	CREDIT	PREREQUISITE
45.0820095	AP US HISTORY: This course conforms to the College Board topics for advanced placement. The course 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. Students are expected to take the AP examination.	11	1 UNIT 1 QP	AP World History Recommend Teacher Recommendation Required
45.0570002 (Honors) 45.0570010 (A & B) 45.9570014 (T) 45.0570096 (ESOL)	AMERICAN GOVERNMENT: 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. The honors level course is accelerated and designed for students interested in pursuing advanced careers in social studies.	12	.5 UNIT	Completion of US History Honors: Teacher Recommendation Required
45.0520095	AP US GOVERNMENT: This course conforms to the College Board topics for AP American government which is the study of local, state, and federal government functions. Focus areas include the development of the political system, federalism, political parties, and political theory. Also, the executive, legislative and judicial branches will be studied. This course fulfills requirement for graduation for American Government. Students are expected to take the AP examination.	12	1 UNIT 1 QP	Completion of U.S. History (AP US History Recommended) Teacher Recommendation Required
45.0610002 (Honors) 45.0610010 45.9610022 (T) 45.0610096 (ESOL)	PRINCIPLES OF ECONOMICS: 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. The honors level course is accelerated and designed for students interested in pursuing advanced careers in social studies.	12	.5 UNIT	Completion of US History Honors: Teacher Recommendation Required
45.0630095	AP MICROECONOMICS: 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.	12	1 UNIT 1 QP	Completion of US History (AP US History Recommended) Teacher Recommendation Required

COURSE #	COURSE /DESCRIPTION	GRADE	CREDIT	PREREQUISITE
45.2150091	GIFTED PSYCHOLOGY: In this course, students will explore many facets of human behavior and mental processes, including learning and memory, adolescent development, motivation and behavior, sensation/perception, altered states of consciousness, and mental disorders. You must be a student in the Advanced Learning Program.	9-10	1 UNIT	ALP Teacher Recommendation Required
45.0160095	AP PSYCHOLOGY: 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.	10-12	1 UNIT 1 QP	Gifted Psychology

SCIENCE

COURSE #	COURSE/ DESCRIPTION	GRADE	CREDIT	PREREQUISITE
26.0120011 26.9120015 (T)	BIOLOGY: 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.	9-12	1 UNIT	NONE
26.0120003	HONORS BIOLOGY: 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.	9-10	1 UNIT 0.5 QP	Teacher Recommendation
26.0120007	HONORS BIOLOGY Y MAGNET: 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.	9	1 UNIT 0.5 QP	Magnet Enrollment or space availability for qualified 9 th graders
40.0580087	BIOCHEMISTRY (BIOLOGY II): 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.	10-11	1 UNIT 0.5 QP	1 Unit of Honors or Magnet Biology 1 Unit of Honors or Magnet Chemistry and space availability for qualified students
26.0140095	AP BIOLOGY: 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	11-12	1 UNIT 1 QP	Minimum of 85% in Biology, 1 Unit of Chemistry and Departmental Rec.

	the rapidly changing science of biology. This course also prepares students to take the AP Biology Exam.			
COURSE #	COURSE /DESCRIPTION	GRADE	CREDIT	PREREQUISITE
40.0510011 40.0510015 (T)	CHEMISTRY: 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 developing unifying principles and concepts.	10-12	1 UNIT	Biology and Math I
40.0510003	HONORS CHEMISTRY: 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.	10-12	1 UNIT 0.5 QP	85% in Biology and Math. I
40.0510007	HONORS CHEMISTRY MAGNET: 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. Emphasis is placed on computerized PASCO probe-wear programs for lab investigations, scientific inquiry, and collaborative research.	9	1 UNIT 0.5 QP	Magnet Enrollment and/or Teacher Recommendation and space availability for qualified students
40.0530095	AP CHEMISTRY: 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.	11-12	1 UNIT 1 QP	Honors or Magnet Chemistry and Teacher Recommendation

COURSE #	COURSE /DESCRIPTION	GRADE	CREDIT	PREREQUISITE
40.0520003	HONORS/MAGNET CHEMISTRY II: This course provides an in-depth study of chemical reactions, quantum mechanics, chemical molecular bonding and introduces organic and nuclear chemistry, solutions, electrochemistry, chemical kinetics and equilibrium, acids and bases, and thermodynamics, and follows successful completion of an introductory Honors or Magnet Chemistry course. Emphasis is placed on computerized PASCO probe-wear programs for lab investigations, scientific inquiry and collaborative research. It is an excellent course for students not yet ready for the rigor of AP Chemistry.	10-12	1 UNIT 0.5 QP	Honors or Magnet Chemistry and Teacher Recommendation
40.0110011	PHYSICAL SCIENCE: This course combines the basic principals of chemistry and physics into one semester. It is designed for the student who has not been successful in courses in these subjects in the past. The course relies heavily on lab work and hands-on activities to help the student learn the concepts in preparation for passing the GHSGT.	11-12	1 UNIT	Biology and IEP or Teacher Placement Limited Number
40.0810011 40.0810015(T)	PHYSICS: 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.	10-12	1 UNIT	Math I and Chemistry
40.0810003	HONORS PHYSICS: 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.	10-12	1 UNIT 0.5 QP	Math II, Honors or Magnet Chemistry and Teacher Recommendation
40.0810007	HONORS PHYSICS MAGNET: 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. Emphasis is placed on computerized PASCO probe-wear programs for lab investigations, scientific inquiry, and collaborative research.	10-11	1 UNIT 0.5 QP	Acc. Math II, Magnet Enrollment and/or Teacher Recommendation and space availability for qualified students

COURSE #	COURSE /DESCRIPTION	GRADE	CREDIT	PREREQUISITE
40.0830095	AP PHYSICS B: The Advanced Placement Physics B course provides a systematic introduction to the main principles of physics and emphasizes the development of problem-solving ability. The course ordinarily forms the first part of the college sequence that serves as the foundation in physics for students majoring in pre-medicine, applied sciences, or engineering. <u>Some</u> students, as college freshmen, are permitted to undertake upper-level courses in physics or register for courses for which physics is a prerequisite <u>after</u> achieving an adequate score on the optional Advanced Placement Exam. (AP B credit is not accepted by GA Tech, although some other schools do accept it, particularly for non-engineering majors.)	11-12	1 UNIT 1 QP	Minimum of 85% in Honors or Magnet Physics, Acc. Math II and Teacher Recommendation
40.0840095	PHYSICS AP C: The Advanced Placement Physics C course is a calculus-based physics class. The student who enrolls in either the AP Physics B or 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. (AP B credit is not accepted by Tech, although some others schools do accept it, particularly for non-engineering majors.)	11-12	1 UNIT 1 QP	Calculus or taking concurrently AND 85% in Magnet Physics or Honors Physics, and Teacher Recommendation
40.0820000	MAGNET HONORS PHYSICS II: This course includes real-life applications of the concepts learned in Physics I. Case studies of actual situations such as the Challenger disaster will be analyzed using not only physics but economic and sociological considerations. Other subjects planned include the history of science and modern physics (Einstein, radioactivity, etc.)	11-12	1 UNIT 0.5 QP	Magnet Physics or space availability for qualified 11-12 graders.
26.0611011 26.9611015 (T) 26.0611099 (ESOL)	ENVIRONMENTAL SCIENCE: 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.	10-12	1 UNIT	1 Unit of Biology IEP Recommendation
26.0620095	AP ENVIRONMENTAL SCIENCE: 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.	11-12	1 UNIT 1 QP	Grade of 85% in 1 Unit of Biology and 1 Unit of Chemistry and Teacher Recommendation.
40.0930003	HONORS FORENSICS: 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.	11-12	1 UNIT 0.5 QP	85% in Chemistry or Biology and Teacher Recommendation

COURSE #	COURSE /DESCRIPTION	GRADE	CREDIT	PREREQUISITE
26.0730003	HONORS HUMAN ANATOMY & PHYSIOLOGY HONORS: 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.	10-12	1 UNIT 0.5 QP	Minimum of 85% in Biology I
26.0730012	HUMAN ANATOMY & PHYSIOLOGY: 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.	10-12	1 UNIT	Minimum of 76% in Biology
40.0210099 40.9210015 (T)	ASTRONOMY: 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.	10-12	1 UNIT	1 Unit of Science
40.0620099 40.9620023(T)	EARTH SCIENCE: This course is designed to continue student investigations that connect Earth's systems (atmosphere, hydrosphere, geosphere, and biosphere) through history. This course develops the explanations of phenomena to the sciences of geology and physical geography, including the early history of life on Earth, plate tectonics, landform evolution, the Earth's oceans and geologic record, weather and climate, and the history of life. The course has laboratory and field-work components that are perfect for the student who enjoys hands-on learning.	10-12	1 UNIT	1 Unit of Science

COURSE #	COURSE /DESCRIPTION	GRADE	CREDIT	PREREQUISITE
26.0640003	ADVANCED GENETICS/DNA RESEARCH: 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.	11-12	1 UNIT 1 QP	Successful completion of AP Biology or AP Physics or AP Chemistry and Magnet Enrollment or Space availability for qualified 11-12 graders
40.0910003	ADVANCED MAGNET SCIENTIFIC INTERNSHIP: 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.	12	1 UNIT 1 QP	2 AP level Sciences or Math Courses, Magnet enrollment or space availability for other qualified seniors
40.0920003	ADVANCED MAGNET SCIENTIFIC RESEARCH: This is a senior level Post-AP Magnet Course and is required of all magnet students to 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 skills	12	1 UNIT 1 QP	2 AP level Sciences or Math Courses, Magnet enrollment or space availability for other qualified seniors
40.0720011	MAGNET FOUNDATIONS/SCIENCE, TECHNOLOGY & SOCIETY: This course is required 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.	9	1 UNIT	Magnet Enrollment
40.0890003	ADVANCED PHYSICS/ROBOTICS: 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.	11-12	1 UNIT 1 QP	AP Physics or AP Biology or AP Chemistry and Magnet enrollment or space availability for qualified 11-12 graders.

COURSE #	COURSE /DESCRIPTION	GRADE	CREDIT	PREREQUISITE
40.0940003	CHEMICAL ENGINEERING & MATERIALS SCIENCE: 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	11-12	1 UNIT 1 QP	AP Chemistry or AP Physics and Magnet enrollment or space availability for qualified 11-12 grade students
40.0923087	MAGNET RESEARCH III—AEROSPACE ENGINEERING: 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.	11-12	1 UNIT 1 QP	AP Physics or AP Chemistry and Magnet enrollment or space availability for qualified 11-12 grade students

WORLD LANGUAGES

COURSE #	COURSE /DESCRIPTION	GRADE	CREDIT	PREREQUISITE
60.0110011	FRENCH I: 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.	9-12	1 UNIT	NONE
60.0120011 (Fall)	FRENCH II: 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.	9-12	1 UNIT	French I
60.0130003 (Spring)	FRENCH III HONORS: 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.	9-12	1 UNIT .5 QP	French II

COURSE #	COURSE /DESCRIPTION	GRADE	CREDIT	PREREQUISITE
60.0140003	FRENCH IV HONORS: 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.	10-12	1 UNIT 1 QP	French III
60.0150003	FRENCH V HONORS: 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.	11-12	1 UNIT 1 QP	French IV
60.0160003	FRENCH VI Y HONORS: 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.	11-12	1 UNIT 1 QP	Department Recommendation
60.0190003	FRENCH VII HONORS Y: This course emphasizes French achievements in cuisine, art, music, history, medicine, and technology.	11-12	1 UNIT 1QP	Department Recommendation
60.0111003	FRENCH VIII HONORS Y: This course is designed to continue advanced topics in literature, art, history, language, culture, music, medicine, and technology	11-12	1 UNIT 1 QP	Department Recommendation
60.0170095	FRENCH AP: 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.	11-12	1 UNIT 1 QP	French V or teacher recommendation
61.0410011	LATIN I: 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.	9-12	1 UNIT	NONE
61.0420011 (Fall)	LATIN II: 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.	9-12	1 UNIT	Latin I
61.0430003 (Spring)	LATIN III HONORS: 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.	9-12	1 UNIT .5 QP	Latin II

COURSE #	COURSE /DESCRIPTION	GRADE	CREDIT	PREREQUISITE
61.0440003	LATIN IV HONORS: 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 <i>Aeneid</i> .	10-12	1 UNIT 1 QP	Latin III
61.0450003	LATIN V HONORS: 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.	11-12	1 UNIT 1 QP	Latin IV
61.0460003	LATIN VI: 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.	11-12	1 UNIT 1 QP	Latin V
61.0480095	LATIN AP LITERATURE: This course will prepare students to take the AP Latin test on Cattullus and Ovid.	11-12	1 UNIT 1 QP	Latin V and teacher recommendation
60.0710011	SPANISH I: 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.	9-12	1 UNIT	NONE
60.0720011 (Fall)	SPANISH II: 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.	9-12	1 UNIT	Spanish I
60.0730003 (Spring)	SPANISH III HONORS: 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.	9-12	1 UNIT .5 QP	Spanish II
60.0740003	SPANISH IV HONORS: 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.	10-12	1 UNIT 1 QP	Spanish III
60.0750003	SPANISH V HONORS: This course will review advanced grammatical structures while presenting more idiomatic phrases through selected readings. Students will continue to improve oral and written fluency.	11-12	1 UNIT 1 QP	Spanish IV

COURSE #	COURSE /DESCRIPTION	GRADE	CREDIT	PREREQUISITE
60.0760003	SPANISH VI: 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.	11-12	1 UNIT 1 QP	Spanish V
60.0711003	SPANISH VII: 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.	11-12	1 UNIT 1 QP	Spanish V
60.0770095	SPANISH AP: This course is designed to provide high school students with advanced studies to prepare them for the AP Language exam. The curriculum will continue to emphasize listening, speaking, reading, and writing skills.	11-12	1 UNIT 1 QP	Spanish V and Teacher recommendation
60.0780095	AP SPANISH LITERATURE: 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.	11-12	1 UNIT 1 QP	Spanish V Honors and Teacher Recommendation
60.0790099	SPANISH FOR NATIVE SPANISH SPEAKERS, LEVEL I: 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.	9-12	1 UNIT	Department Recommendation
60.0791099	SPANISH FOR NATIVE SPANISH SPEAKERS, LEVEL 2: 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.	9-12	1 UNIT	Spanish for Native Spanish Speakers, Level 1
60.0510099	PORTUGUESE NATIVE SPEAKERS I: This course is designed for the native Portuguese Speaker. This course will focus on advanced skills in reading, writing, listening, and speaking. Essay development and novel reading are integral to this course.	9-12	1 UNIT	Department Recommendation
60.0520099	PORTUGUESE NATIVE SPEAKERS II: This course is designed for the Portuguese 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 Portuguese-speaking world are integral to this course.	9-12	1 UNIT Y	Portuguese for Native Speakers I

FINE ARTS--MUSIC

COURSE #	COURSE/ DESCRIPTION	GRADE	CREDIT	PREREQUISITE
	CHORALE (INTERMEDIATE MIXED CHORUS): Open to students in all grade levels. This class meets year round on the 3 rd A/B schedule. 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.	9-12	.5 UNIT EACH	NONE
	SPIRITO (ADVANCED WOMENS CHOIR): 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.	10-12	1 UNIT	AUDITION & Teacher Rec.
	CHORALE (ADVANCED MIXED CHORUS): Open to student in all grade levels. This class meets year round on the 3 rd A/B schedule. Magnet students and other 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.	9-12	1 UNIT	AUDITION
	BEL VOCE (ADVANCED CHORAL ENSEMBLE): 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. <i>Students in Bel Voce may audition for the co-curricular a cappella choir.</i>	10-12 Men and 11-12 Women	1 UNIT	AUDITION
	CONCERT BAND- WOODWINDS: This course focuses on fundamental techniques of the woodwind instruments. These techniques will be applied to concert band literature appropriate to the level of student achievement.	9-12	1 UNIT	East Cobb Band
	CONCERT BAND- BRASS/PERCUSSION: This course focuses on fundamental techniques of the brass and percussion instruments. These techniques will be applied to concert band literature appropriate to the level of student achievement.	9-12	1 UNIT	East Cobb Band
	SYMPHONIC BAND: 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	9-12	.5 UNIT EACH	Audition
	WIND ENSEMBLE (ADVANCED BAND): 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.	9-12	.5 UNIT EACH	Audition Required
	CONCERT BAND: This course focuses on fundamental techniques of all band instruments. These techniques will be applied to concert band literature appropriate to the level of student achievement.	11-12	1 UNIT	Audition or Teacher Rec.

COURSE #	COURSE /DESCRIPTION	GRADE	CREDIT	PREREQUISITE
53.0210099	MUSIC THEORY AND COMPOSITION: This is a study of the rudiments and vocabulary of music. Topics will include notation, intervals, scales, chord construction, melodic and rhythmic dictation, four-part writing, and ear-training. Structures of music will be studied so students are able to analyze the music that they play, to understand compositional techniques, and to compose music of their own. Students will apply the knowledge that they gain to their own instruments. The course will involve class discussions and individual and group projects.	10-12	1 UNIT	NONE
53.0230095	AP MUSIC THEORY: 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.	11-12	1 UNIT 1 QP	Basic knowledge of written music and AP teacher approval
53.0140099	MUSIC APPRECIATION: Students will explore all aspects of music in varying cultures, spanning ancient history through contemporary times.	9-12	1 UNIT	NONE
	BEGINNING ORCHESTRA I: this course gives students a chance to begin playing a string instrument. They will have an opportunity to audition for Philharmonia Orchestra in the spring.	9-12	1 UNIT	NONE
	SINFONIA/INTERMEDIATE ORCHESTRA: This orchestra focuses on review of technical and musical concepts at the intermediate level. These are then transferred to orchestral literature and performed throughout the year.	9-12	1 UNIT	AUDITION or Teacher Approval
	CHAMBER/ADVANCED ORCHESTRA: This orchestra focuses on more advanced skills and literature. This select group of students must meet specified playing requirements to enroll.	9-12	1 UNIT	AUDITION or Teacher Approval
	PHILHARMONIA/BEGINNING ORCHESTRA II: This course focuses on musical and technical concepts at a beginning level. These are then transferred to orchestral literature and performed throughout the year.	9-12	1 UNIT	Participating in middle school orchestra
	PHILHARMONIA/BEGINNING ORCHESTRA III: See Mr. Wasson	9-12	1 UNIT	Phil/Beginning Orchestra II or Teacher Approval

FINE ARTS--VISUAL ART

COURSE #	COURSE/ DESCRIPTION	GRADE	CREDIT	PREREQUISITE
50.0211099	BASIC VISUAL ARTS COMPREHENSIVE: This course is open to any student with an interest in art. This is a full block class that gives the student an in depth studio experience and art history background on which to build. Areas of study include drawing, painting, pottery, printmaking, and color theory.	9-12	1 UNIT	Application Process

COURSE #	COURSE /DESCRIPTION	GRADE	CREDIT	PREREQUISITE
50.0313099	DRAWING/PAINTING IY: This course is open to students with solid drawing skills. Painting techniques are introduced with various subject matter examined. Weekly sketchbook assignments add to students' problem solving skills. The second part of this course explores a more stylized approach to subject matter & materials.	9-12	1 UNIT	Application Required
50.0314099	DRAWING & PAINTING II: The course enhances level-one drawing and painting skills and provides opportunities to apply techniques in a variety of media. Stresses critical analysis of master paintings and drawings of different styles and historical periods: emphasizes problem solving techniques to improve mastery of materials.	10-12	1 UNIT	Drawing & Painting I & Teacher Recommendation
50.072199	COMPUTER GRAPHICS: This course introduces graphic design as seen in advertising, posters, package design, logos, and illustration. Designs will be done using the Photoshop software, based on compositional design skills enhanced from Basic Art. Both historical and contemporary commercial art will be studied.	10-12	1 UNIT	Visual Arts/Comprehensive I & Teacher Recommendation
50.0411099	CERAMICS IY: This is an introductory class to hand built ceramics. Students will use red and white earthenware, learn primitive and electric firings and investigate glazing techniques. The second half of this class focuses on advanced techniques including time on the potter's wheel.	9-12	1 UNIT	Visual Arts /Comprehensive I & Teacher Recommendation
50.0412099	CERAMICS II: This class enhances level one skills and provides opportunities to apply design techniques in clay through hand building and/or throwing on the potter's wheel. Introduces formulation of glazes and kiln firing; stresses evaluation of clay forms through critiques.	10-12	1 UNIT	Ceramics I & Teacher Recommendation
50.0611099	SCULPTURE IY: In this class additive and reductive techniques are taught using diverse materials including clay, plaster, and soapstone, found objects, and metal. A further emphasis on Sculpture in the history of Art will be emphasized.	11-12	1 UNIT	Visual Arts /Comprehensive I & Teacher Recommendation
50.0612099	SCULPTURE II: This class enhances level one skills and explores the design and production of relief sculpture and sculpture in the round Emphasizes the historical origins and function of sculpture in the Western and Non- Western cultures. Introduces more complex techniques of construction and exploration of materials in additive and subtractive techniques.	11-12	1 UNIT	Sculpture I & Teacher Recommendation
50.0813095	AP STUDIO ART 2-D DESIGN Y: 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.	10-12	1 UNIT 1 QP	Comprehensive plus Ceramics I Sculpture I Teacher Rec.

COURSE #	COURSE /DESCRIPTION	GRADE	CREDIT	PREREQUISITE
50.0814095	AP STUDIO 3-D DESIGN Y: 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.	10-12	1 UNIT 1 QP	Comprehensive plus Drawing & Painting I & II or Photography I & II Teacher Rec.
50.0811095	AP STUDIO—DRAWING Y: This class conforms to College Board's topics for the Advanced Placement Studio Art Drawing 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.	10-12	1 UNIT 1 QP	Comprehensive plus Drawing & Painting I & II Teacher Rec.
0.0711099	PHOTOGRAPHY IY: This course intends to introduce students to photographic equipment, materials, processes and philosophy. Includes experiments with pinhole cameras, historical techniques, photographic paper, film, 35 mm camera operation, film processing, enlarging and presentation of images. Some outside of class time will be necessary. Students must have a single lens reflex 35mm camera.	9-12	1 UNIT	Visual Arts/ Comprehensive I & Teacher Recommendation
0.0712099	ADVANCED PHOTOGRAPHY II: This course intends to continue students' education onto photographic equipment, materials, processes and philosophy. Special emphasis is given to projects involving historical exploration, camera vision, and conceptual ideas. Students will explore multiple photographic styles including commercial and fine art uses of photographic expression. They will work toward the creation of a finished portfolio of images. Some outside of class time will be necessary. Students must have a single lens reflex 35mm camera.	11-12	1 UNIT	Visual Arts/ Comprehensive I Photography IY Teacher Approval

FINE ARTS--DRAMA

COURSE #	COURSE /DESCRIPTION	GRADE	CREDIT	PREREQUISITE
52.0610099	ACTING I Y (INTRO TO THEATRE): 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 solo/group performances.	9-12	1 UNIT	NONE

COURSE #	COURSE/ DESCRIPTION	GRADE	CREDIT	PREREQUISITE
52.0620099	ACTING II Y: 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 scene elements, and stage combat techniques will be included.	9-12	1 UNIT	Acting I
52.0210099	ADVANCED FUNDAMENTALS OF DRAMA Y: 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 through performance opportunities.	10-12	1 UNIT	Acting I (Intro to Theatre)
52.0220099	FUNDAMENTALS OF DRAMA Y (CHILDREN'S THEATRE): This course offers advanced theatre students a performance opportunity by performing a play designed for an audience of children. Students will learn the techniques for performing for children and will participate in all aspects of the production process. Composition may be included through the scripting of a children's play. The course will culminate in the production for an audience of children.	10-12	1 UNIT	Advanced Theatre, Technical Theatre, or Teacher approval
52.0410099 52.0420099 52.0430099 52.0440099	TECHNICAL THEATRE I-IV Y: 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 productions.	9-12	1 UNIT per course	Alg. I Recommended
52.0510099	ADVANCED DRAMA I Y (PLAY PRODUCTION): This class reinforces skills developed in fundamentals of Drama III. Students will be given the opportunity to select, produce, and perform in student-directed one-act plays of a full-length production.	10-12	1 UNIT	Advanced Theatre, Technical Theatre, or Teacher approval

JOURNALISM

COURSE #	COURSE /DESCRIPTION	GRADE	CREDIT	PREREQUISITE
23.0320096 (A) 23.0320097 (B)	ADVANCED NEWSPAPER JOURNALISM: alternating course 3 rd period for advanced newspaper students	10-12	1 UNIT	Intro & Teacher Rec.
23.0330008 (A) 23.0330009 (B)	ADVANCED ANNUAL JOURNALISM: alternating course 3 rd period for advanced newspaper students	10-12	1 UNIT	Intro & Teacher Recommendation

COURSE #	COURSE /DESCRIPTION	GRADE	CREDIT	PREREQUISITE
23.0320099 FALL ONLY	JOURNALISM/NEWSPAPER I Y: 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.	9-12	1 UNIT	Teacher Recommendation
23.0320011 FALL ONLY	JOURNALISM/ANNUAL I Y: 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.	9-12	1 UNIT	NONE
23.0330011 23.0350011 23.0360011	ADVANCED JOURNALISM ANNUAL II, III, AND IV: Upper level annual courses for students pursuing excellence in annual journalism.	10-12	1 UNIT	Intro to Journalism Teacher approval
23.0330099 23.0350099 23.0360099	ADVANCED JOURNALISM NEWSPAPER II, III, AND IV: Upper level newspaper courses for students pursuing excellence in newspaper journalism.	10-12	1 UNIT	Intro to Journalism Teacher approval

OTHER COURSES

COURSE #	COURSE /DESCRIPTION	GRADE	CREDIT	PREREQUISITE
70.0410099 RISE I 70.0420099 RISE II	COMMUNITY SERVICE/LEARNING I (RISE): 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.	12	1 UNIT	3.0 GPA Application and two teacher recommendations Own transportation
35.0670099 Y 35.0670096 A- Fall 35.0670097 B- Spring	TALENT DEVELOPMENT I: This is the first in a sequence of two classes for students who will take, or have hopes of taking honors classes and Advanced Placement classes in high school. The Talent Development class will concentrate on developing the skills needed to be successful and expose them to some of the expectations and levels of rigor they will experience in these advanced level classes. These skills include higher order thinking, critical reading, note taking, organization, study skills, research skills problems solving and goal setting. Students should be self motivated and open to trying new ideas.	9 For Non- Magnet Students	1 UNIT	Enrolled in at least 1 honors courses as a freshman or identified as aiming to take at least one honors courses as a sophomore AND Requires Teacher Recommendation

COURSE #	COURSE /DESCRIPTION	GRADE	CREDIT	PREREQUISITE
	TALENT DEVELOPMENT II: The second class in a sequence of two designed to develop further the skills acquired in the Talent Development I class. Students must be concurrently enrolled in an honors and/ or and Advanced Placement class and have plans to take at least one AP class in their junior year.	10-11 For Non-Magnet Students	1 UNIT	Talent Development I and Enrolled in at least 1 honors courses as a sophomore with plans to take at least one AP course as a junior
35.0610023 English 35.0640011 Math	GHSGT STUDY SKILLS: This course focuses on a review of standards in preparation for the March Georgia High School Graduation Test. This course includes special emphasis on note taking, time management, organization, listening skills, summarizing and levels of questions. Test-taking tips will also be included. Materials include consumable GHSGT review workbooks. Students will also use the USA Test Prep website as a resource.	11	1 UNIT	Teacher Rec and Transcript Review
35.0630016	NOVANET: NovaNet is an online course recovery program that requires note taking and full time engagement in daily work. The following courses are offered: All English, Integrated Math I & II, Algebra I Part I and Part II, Geometry, Money Management, all Science; all Social Studies except Economics. Counselors recommend students who need .5 credits for a course or who have failed one or more courses and fulfill the following requirements: failed with a 60% or higher, basic computer skills, excellent attendance, no major discipline issues, adequate reading skills, and self-discipline. Priority is given to seniors.	11-12	.5 to 1 UNIT per course	Recommendation of Counselor
00.1213000 (Fall) 00.1212000 (Spring)	MINIMUM DAY: minimum day is offered 1 st and 4 th 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 1 st or 4 th 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.	12	NONE	Must have passed all GHSGT tests See your Counselor

PHYSICAL EDUCATION

COURSE #	COURSE/DESCRIPTION	GRADE	CREDIT	PREREQUISITE
36.0110099	GENERAL PHLYSICAL EDUCATION: 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).	9-12	1 UNIT	

COURSE #	COURSE/DESCRIPTION	GRADE	CREDIT	PREREQUISITE
17.0110098 Health .5 36.0510098 Fitness .5	HEALTH/FITNESS Y: 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. <i>This course is required for graduation.</i>	11-12	.5 Health .5 Fitness	NONE
17.9110014 17.951004 (T)	HEALTH/FITNESS Y (T): This course has the same content as Health/Fitness Y. <i>This course is required for graduation.</i> This section of regular physical education is team taught with a special education teacher to make indicated adjustments in methodology and/or management.	11-12	.5 Health .5 Fitness	IEP
36.0560099	BODY SCULPTING: 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.	9-12	1 UNIT	NONE
36.0530096	AEROBIC DANCE: This course is designed to help students tone and shape their bodies through aerobics. Cardiovascular and flexibility development will be emphasized.	9-12	1 UNIT	NONE
36.0250099	INTRO OUTDOOR EDUCATION Y: 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.	9-12	1 UNIT	NONE
36.0230099	INTRODUCTORY TRACK & FIELD: This course introduces the history, rules and basic skills involved in the various track and field events including: hurdles, shot-put, high jump, relays, javelin throw, long jump, sprints, and distance events.	9-12	1 UNIT	NONE
36.0290099	INTRODUCTORY SELF-DEFENSE: This course introduces basic self-defense with practical application to everyday life. It covers traditional self-defense methods and techniques including judo and karate. It addresses the differences between the various martial arts and their contributions to both sports and self-defense.	10-12	.1 UNIT	NONE
36.0540099	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.?	9-12	1 UNIT	NONE
36.0640099 Spring	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.	9-12	1 UNIT	NONE

CAREER, TECHNICAL, AND AGRICULTURAL EDUCATION

FOR JUNIORS AND SENIORS ONLY: To receive the Technology diploma or dual diploma, one must take 4 courses from the Technology & Career area with 3 of the 4 courses from one program of study. The different programs of study offered at Wheeler are indicated in the following course descriptions. It is recommended that all students should be a pathway completer in order to increase their workplace readiness. Beginning in 2010-2011, all seniors will be given the Governor's Workplace Readiness test

COURSE #	COURSE/ DESCRIPTION	GRADE	CREDIT	PREREQUISITE
	SMALL BUS., ACCOUNTING, FINANCIAL MGT. INTERACTIVE MEDIA, ADMINISTRATIVE SUPPORT CAREER PATHWAYS			
07.4411099	COMPUTER APPLICATIONS: This course is a foundation course that introduces practical computer applications. This is the prerequisite for students who plan to take the Interactive Media, Computer Science or Administrative Support pathway or any students who have not taken the Business Exploratory in middle school or have had no keyboarding classes.	9-12	1 UNIT	NONE Prerequisite for Interactive Media, Administrative Support and Computer Science Pathways
06.4160099	BUSINESS ESSENTIALS: This is the foundations course for many of the Career Pathways in Business Education. Topics include owning and operating your own business, building a strong knowledge base and develop management skills as different forms of business ownership are studied, functions of management, financial management, technology, communications, legislative regulations, and community involvement. Project-based activities will prepare students for the global marketplace.	9-12	1 UNIT	NONE Prerequisite for Accounting, Small Business Development, and Financial Mgt.Pathways
	ADMINISTRATIVE SUPPORT PATHWAY			
07.4411099	COMPUTER APPLICATIONS I: This course is a foundation course that introduces practical computer applications. The course provides an understanding and application of social, ethical, and human issues related to technology. Computer technology, decision-making, productivity, communications, and problem-solving skills will be provided as students learn computer applications, integration of word processing, desktop publishing, spreadsheet, database, and presentation software. Recommended as the first course for all students who plan to take the Interactive Media, Computer Science or Administrative Support pathway or any students who have not taken the Business Exploratory in middle school or have had no keyboarding classes.	9-12	1 UNIT	NONE
07.4412099	COMPUTER APPLICATIONS II: This course is a continuation of Computer Applications I and provides students with opportunities to enhance their computer technology, decision-making, productivity, communication, and problem-solving skills through the use of advanced computer applications. This is the second course in the Administrative Support pathway.	10-12	1 UNIT	Computer Applications I

COURSE #	COURSE /DESCRIPTION	GRADE	CREDIT	PREREQUISITE
07.4831099	BUSINESS COMMUNICATION & PRESENTATION: This course provides students with an understanding of communication skills and current and upcoming technology and its impact personally and professionally. Students will develop oral and written communications, interpersonal skills	10-12	1 UNIT	Computer Applications II
	SMALL BUSINESS DEVELOPMENT PATHWAY			
06.4150099	LEGAL ENVIRONMENT OF BUSINESS (BUSINESS LAW): This course concentrates on the legal aspects of business ownership and management. Legal issues will include contracts, sales, consumer law, agency and employment law, personal and real property, risk management, environmental law, and government effects on business. The impact of ethics on business operations will be studied. International business principles are infused in the standards for Legal Environment of Business.	10-12	1 UNIT	Business Essentials
07.4811099	ENTREPRENEURIAL VENTURES: This is the third course in the Small Business Development Career Pathway. This course concentrates on the management skills necessary for successful business operation. Students will study management strategies for developing and implementing business plans; structuring the organization; financing the organization; and managing information, operations, marketing and human resources. International business principles are infused in the standards for Entrepreneurial Ventures. An integral component of the Entrepreneurial Ventures course is a school-based or community-based entrepreneurial venture that will engage students in the creation and management of a business and the challenges of being a small business owner.	10-12	1 UNIT	Business Essentials
06.4143099	INTERNATIONAL BUSINESS & MARKETING: Students will understand the fundamental concepts of international business and marketing and the various factors that influence the international business environment. The course will focus on raising awareness of the interrelatedness of one country's political policies and economic practices to another; learning to improve international business relations through appropriate communication strategies; understanding the global business environment and the interconnectedness of cultural, political, legal, economic, and ethical systems; identifying forms of business ownership and international business opportunities; exploring basic concepts underlying international finance, management, and trade relations; and developing an understanding of marketing functions in an international setting.	10-12	1 UNIT	Business Essentials
	ACCOUNTING CAREER PATHWAY			
07.4110099	ACCOUNTING I Y: Accounting I is an overview of the accounting cycle for all business types. It introduces the students to accounting concepts, principles, and procedures. The course emphasizes the skills, knowledge, and attitudes necessary for individuals to conduct personal business or to further their education in the field of accounting. Automated and manual problems will simulate the working environment.	10-12	1 UNIT	NONE

COURSE #	COURSE /DESCRIPTION	GRADE	CREDIT	PREREQUISITE
07.4120099	ACCOUNTING II Y: Accounting II provides the student an opportunity to review and further develop the fundamental accounting principles using technology. The course helps students develop additional skills in applying principles used in accounting systems and methods commonly found in business. Accounting II is designed for students interested in continuing their education at the post-secondary level or entering the workforce.	10-12	1 UNIT	Accounting I Y
07.4211099	BANKING AND INVESTING: Using project-based instruction, students are introduced to the basics of the banking system, bank operating procedures, negotiable instruments, and the deposit and credit functions of banks. Methods used for measuring the financial performance of banks are analyzed. Current issues and future trends in banking are examined. Students formulate business and individual investment decisions by comparing and contrasting a variety of investment options. This is the last year this course will be offered. <u>This is the last year that this course will be offered.</u>	10-12	1 UNIT	Business Essentials
	INTERACTIVE MEDIA PATHWAY			
11.4310099	FUNDAMENTALS WEB DESIGN: Webpage Design includes the creation and design of web pages using elements such as hyperlinks, tables, frames and cascading style sheets. Students will also enhance their skills in Internet usage and research, multimedia presentations, and graphics.	10-12	1 UNIT	Computer Applications I
11.4320099	ADVANCED WEB DESIGN: This course provides students with the study of advanced topics in web design. The course will utilize advanced multimedia tools. Emphasis will be placed on higher order thinking and problem solving skills within the context of real world applications.	10-12	1 UNIT	Fundamentals of Web Design
11.4280099	INTRODUCTION TO ANIMATION AND 3D DESIGN Y: This course utilizes the skills mastered in Advanced Web Design. The course will utilize multimedia tools including 3D animation and digital video. Emphasis will be placed on higher order thinking and problem solving skills within the context of real world applications.	10-12	1 UNIT	Advanced Web Design
	COMPUTER SCIENCE CAREER PATHWAY			
11.4180099	BEGINNING PROGRAMMING: This is an introductory course in the beginning concepts of object oriented programming, analysis, design and implementation. Students will learn how to create applications using the Visual Basic.NET programming language. Some of the useful and fun applications created include: the math/science equation calculator, flash card math game, slot machine, blackjack, stopwatch, hangman, capital city quiz, face catch and battle bricks paddle game. In addition, Alice 3D programming application will be utilized to reinforce object oriented programming concepts. Alice is designed to teach programming in a unique way using a virtual world with objects to make movies and games. This is the second course in the Computing Programming Pathway.	10-12	1 UNIT	Completion of Math I with a C or higher

COURSE #	COURSE /DESCRIPTION	GRADE	CREDIT	PREREQUISITE
11.4210099	INTERMEDIATE PROGRAMMING (Gaming Projects): The focus of the course is on the features that support the design and implementation of well-structured programs that are easy to read and maintain. Database overview and integration of database is also part of this course. This course covers the design and implementation of Java programs for the first 9 weeks. The second 9 weeks is project based assignments and is not language specific. These projects may include Gaming (C++), Web Programming (Java, JavaScript) and/or Java GUI (Graphical User Interface) with a database. This is the third course in the Computing Programming Pathway.	10-12	1 UNIT	Algebra I or Math I and Beginning Programming
11.4260099	INFORMATION SYSTEMS MANAGEMENT (ORACLE): Oracle database is a popular, industry-recognized, behind the scenes application on the World Wide Web. It covers the designing of databases to meet business needs. The entering, retrieving, and manipulating of data into useful information is covered. Students will analyze case studies to identify patterns in data not obviously related and develop solutions to make a business effective. Student will use Oracle database technology and SQL (structured query language) instructions to employ a database management system, manage the implementation of the database system and develop report-preparation programs. Data Warehousing concepts such as entering and updating data, performing data retrieval and applying data will also be covered. This course prepares students to take the Introduction to Oracle 10i-SQL certification exam.	10-12	1 UNIT	Beginning Programming
11.0170095	AP COMPUTER SCIENCE Y: 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 A exam. This course uses the Java programming language.	11-12	1 UNIT 1 QP	Math II Beginning Programming, 3.5 GPA & Teacher Approval
ENGINEERING & ARCHITECTURE PATHWAYS				
48.5410099	INTRO TO ENGINEERING DRAWING Y: An introductory course and a prerequisite to all other engineering design and drawing courses. Emphasis is placed on safety, correct use of tools and equipment, drafting media, sketching, lettering, fundamentals of CAD and multi-view drawings. This is the first course in the Engineer Graphics & Design pathway and the Architectural Drawing & Design pathway.	9-12	1 UNIT	Alg. I or Math I or enrolled in Accelerated Math I or II or Teacher Recommendation

COURSE #	COURSE /DESCRIPTION	GRADE	CREDIT	PREREQUISITE
	ENGINEER GRAPHICS & DESIGN CAREER PATHWAY			
48.5420099	SURVEY OF ENGINEERING GRAPHICS Y: 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.	10-12	1 UNIT	Intro to Engineering Drawing Y
48.5430099	3-D MODELING AND DESIGN Y: 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 Engineering Graphics & Design pathway.	11-12	1 UNIT	Survey of Engineer Drawing
48.5440099	TECHNICAL MANUFACTURING AND CONCEPTS Y: allows students to develop skills in fluid drawings, electricity/electronics, working drawings, and manufacturing process.	11-12	1 UNIT	3-D Modeling and Analysis and Teacher Approval
	ARCHITECTURAL DRAWING & DESIGN CAREER PATHWAY			
48.5450099	ARCHITECTURAL DRAWING AND DESIGN I Y: 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 Engineer Drawing & Design pathway.	9-12	1 UNIT	Intro to Engineering Drawing Y
48.5460099	ARCHITECTURAL DRAWING AND DESIGN II Y: 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 Architectural Drawing & Design pathway.	10-12	1 UNIT	Intro to Engineering Drawing Y
48.5470099	STRUCTURAL DETAILING Y: This course introduces the student to the basic terminology, concepts, and principles of commercial building construction design. Areas of study include concrete, masonry, steel and wood building construction.	12	1 UNIT	Architectural Drawing & Design II and Teacher Approval
48.5480099	CIVIL ENGINEERING DRAWING Y: This course introduces students to the basic terminology, concepts and principles of Civil Engineering Drawing. Drawing assignments emphasize the most common mapping and civil site planning design problems.	12	1 UNIT	Architectural Drawing & Design II and Teacher Approval
	ENGINEERING CAREER PATHWAY			
21.4250099	FOUNDATIONS OF ENGINEERING & TECHNOLOGY: This is an introductory course for all Georgia Engineering & Technology Education pathways. This course provides students with opportunities to develop fundamental technological literacy as they learn about the history, systems, and processes of invention and innovation.	9-12	1 UNIT	Alg. I or Math I OR enrolled in Math I Y or Accelerated Math I or II OR Teacher Recommendation

COURSE #	COURSE /DESCRIPTION	GRADE	CREDIT	PREREQUISITE
21.4710099	ENGINEERING CONCEPTS: 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.	9-12	1 UNIT	Fnd. of Engineering & Technology or Teacher Approval
21.4720099	ENGINEERING APPLICATIONS: 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.	10-12	1 UNIT	Engineering Concepts or Teacher Approval
21.4610099	RESEARCH, DESIGN & PROJECT MANAGEMENT Y is the fourth course in the engineering pathway. This course provides students with opportunities to work with students from other pathways as a member of a design team. Research strategies, prototype testing and evaluations, and communication skills are emphasized.	11-12	1 UNIT	Completed one of the following pathways: Engineering, Electronics, Drafting or Computer Science or Teacher Recommendation
	ELECTRONICS/TELECOMMUNICATIONS CAREER PATHWAY			
21.4520099	FUNDAMENTALS OF ELECTRONICS (Electronics I): Introduces the field of electronics; covers AC and DC circuitry and basic transistor theory and emphasizes safety procedures. Presents electronic circuits and how they control industrial equipment and processes; covers applications of semi-conductors, photoelectric devices, relays, servomechanisms and electronic heating together with digital principles and applications. Includes experiments and practical product work such as robotic interfacing with computers. Introduces careers in the fundamentals of telecommunications systems.	9-12	1 UNIT	Alg. I or Math I or enrolled in Accelerated Math I or II OR Teacher Recommendation
21.4530099	ADVANCED AC AND DC CIRCUITS: This course introduces students to the history and development of analog circuits. Students will identify and define operational characteristics and applications of amplifiers, oscillators and applications of communications circuits. II.	9-12	1UNIT	Fundamentals of Electronics

COURSE #	COURSE /DESCRIPTION	GRADE	CREDIT	PREREQUISITE
21.4540099	DIGITAL ELECTRONICS: 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.	10-12	1 UNIT	Advanced AC & DC Circuits
10.5310099	TELECOMMUNICATIONS: 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.	10-12	1 UNIT	Digital Electronics
	VIDEO PRODUCTIONS CAREER PATHWAY			
10.5110099	VIDEO PRODUCTIONS I Y: Students will learn to write for video production, draw storyboards, operate a video camera , utilize lighting and sound techniques, edit using an iMac, produce titles, effects and sound, promote a product, create animation, and produce a television show for broadcast	9-12	1 UNIT	NONE
10.5120099	VIDEO PRODUCTIONS II Y: Students write, film, edit and produce the weekly television show “Wildcat TV” to be shown to home rooms and on Schooltube.com each week. Students are expected to capture sports, events, skits, interviews, & ads that serve the Wheeler community. Students must meet deadlines and produce school-appropriate work.	10-12	1 UNIT	Broadcast Video I Application & Video Teacher Approval
10.513009	VIDEO PRODUCTIONS III Y: Students will work on “Wildcat TV” in a leadership capacity with opportunities to produce and perform as reporter or host for the weekly show. Students are also expected to create “The Senior Video”, a video yearbook including all events, sports & interviews that capture Seniors in their final year of high school.	11-12	1 UNIT	Broadcast Video I & II Application & Video Teacher Approval
10.5140099	VIDEO PRODUCTIONS IV Y: Students must study the history of film production, write screenplays, direct, execute all post-production using the advanced editing software Final Cut Pro, independently produce projects on location, and produce a portfolio of student work suitable for employment or post-secondary admission.			Video I Application & Video Teacher Approval

COURSE #	COURSE/ DESCRIPTION	GRADE	CREDIT	PREREQUISITE
	PLANT SCIENCE/HORTICULTURE CAREER PATHWAY			
01.4610099	GENERAL HORTICULTURE AND PLANT SCIENCE Y: 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."	9-12	1 UNIT	NONE
01.4700099	NURSERY AND LANDSCAPE Y: 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. <i>This</i> is the 3rd course in the "Plant Science/Horticulture Career Pathway.	9-12	1 UNIT	General Horticulture
01.4620099	FLORICULTURE PRODUCTION & MANGEMENT: This course is the study of flowers with basic horticulture emphasis. Students will develop skill proficiencies in various techniques of floral, garden, design, landscape and greenhouse production.	9-12	1 UNIT	General Horticulture
01.4640099	NURSERY PRODUCTION & MANAGEMENT: This course is the Greenhouse Management course. The student will learn how to operate the Greenhouse and its production schedule and assist with all technical operations.	11-12	1 UNIT	Gen. Hort, Nursery & Landscape, Floriculture & Teacher Approval
	FAMILY AND CONSUMER SCIENCE CAREER PATHWAY			
	EARLY CHILDHOOD EDUCATION PATHWAY			
20.52510099	HUMAN GROWTH & DEVELOPMENT FOR EARLY CHILDHOOD: This course covers the knowledge, skills, attitudes, and behaviors regarding the growth and development of infants and children. Topics that are discussed are physical, emotional social, cognitive or mental, and moral development of children. The human needs across each age and stage of childhood as well as impacts of family and societal crisis on the development of the child will be discussed. Career opportunities in this field will be explored. This is the first course in the Early Childhood Education pathway.	9-12	1 UNIT	NONE
20.52610099	HEALTH, SAFETY & NUTRITION FOR THE YOUNG CHILD: Providing a safe and healthy learning environment for young children is the emphasis of this course. The course develops skills for employment in early childhood-related occupations. The work place skills discussed will be worth ethics, health, safety, nutrition education, certification in CPR/FIRST AIDE/FIRE SAFETY, abuse and neglect, childhood illnesses, and childhood diseases.	10-12	1 UNIT	Human, Growth & Development for Early Childhood

COURSE #	COURSE/ DESCRIPTION	GRADE	CREDIT	PREREQUISITE
20.5251099	EARLY CHILDHOOD EDUCATION: Early Childhood Care focuses on infancy to preschooler physical, cognitive, creative, social, emotional, and moral development of children. Topics discussed include: planning and guiding developmentally appropriate practices for working with young children including career paths, theories of child development, developmentally appropriate learning environment, relationships with others, guidance, lesson planning, cultural diversity, and students with special needs.	11-12	1 UNIT	Health, Safety & Nutrition for the Young Child
	NUTRITION AND FOOD SERVICE PATHWAY			
20.41610099	FOOD, NUTRITION AND WELLNESS: Food, Nutrition and Wellness teaches nutritional needs and food choices for the best health of individuals across the lifespan. This course is knowledge based in understanding the nutrient content, in understanding the development of chronic diseases, and in understanding food safety. This is the first course in the Nutrition and Food Service pathway.	9-12	1 UNIT	NONE
20.41710099	FOOD & NUTRITION THROUGH THE LIFESPAN: This is an advanced course in food and nutrition that addresses the nutritional needs at specific stages of the human life cycle such as lactating mothers, infancy, childhood, adolescence, and adulthood including old age. The most common nutritional concerns, food choices, health status and strategies to help the well-being of each stage of the lifecycle will be discussed. The careers discussed will be dietetics, consumer foods, and nutrition science careers.	10-12	1 UNIT	Food, Nutrition & Wellness
20.41810099	FOOD SCIENCE: Food science is an advanced course that discusses how to expand and improve the food supply. Students will evaluate the effects of processing, preparation, and storage of food. They will evaluate the quality, safety, wholesomeness, and nutritional value of foods. This course will build on information from chemistry and the wonders of the scientific world.	11-12	1 UNIT	Food & Nutrition Through the Lifespan
	CULINARY ARTS			
20.5310099	INTRODUCTION TO CULINARY ARTS: 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.	9-11	1 UNIT	Application Required
20.5321099	CULINARY ARTS I: Culinary Arts I is designed to create a complete foundation and understand of Culinary Arts leading to post secondary 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.	10-12	1 UNIT	Intro To Culinary Arts Application Required

COURSE #	COURSE/ DESCRIPTION	GRADE	CREDIT	PREREQUISITE
20.5331099	CULINARY ARTS II: 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 post secondary level or enter the foodservice industry as a proficient and well rounded individual. Strong importance is given to refining hands on production of the classis fundamentals in the commercial kitchen.	10-12	1 UNIT	Culinary Arts I Application Required
20.0372099 (I) 20.0382099 (II)	WORK PROGRAM FOR CULINARY ARTS: 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.	11-12	1 UNIT	Culinary Arts Teacher Approval
	HEALTH OCCUPATIONS –THERAPEUTIC SERVICES CAREER PATHWAY			
	PRE-REQUISITE FOR MEDICAL AND EMERGENCY SERVICES PATHWAY			
25.5210099	INTRO TO HEALTHCARE SCIENCE: 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. This is the first course in the Medical Services and Emergency Services pathways.	9-12	1 UNIT	NONE
	MEDICAL SERVICES PATHWAY			
25.5220099	APPLICATIONS OF THERAPEUTIC SERVICES: This is an intermediate or second level course in the therapeutic services pathway and is designed to provide an overall framework of skills necessary for direct patient care. Assessment techniques such as vital signs, first aid, and basic life support for infants, children, and adults are covered. The functions and pathophysiology of each body system is explored in greater detail	10-12	1 UNIT	Intro to Healthcare Science
25.5250099	GENERAL MEDICINE: This course is designed to introduce students to each of the major departments of the average acute care setting/hospital including but not limited to; Orthopedics, Cardiology, Diagnostic Imaging, MedSurg, Gastroenterology, Urology, and Customer Care Services. Student s may participate in a work-based learning program with a minimum 40-hour clinical practicum.	11-12	1 UNIT	Applications of Healthcare Science

COURSE #	COURSE/ DESCRIPTION	GRADE	CREDIT	PREREQUISITE
	EMERGENCY SERVICES PATHWAY			
25.5640099	EMERGENCY AND DISASTER PREPAREDNESS: This course is designed to introduce students to the world of pre-hospital emergency care and develop in them skills necessary for dealing with disasters and emergency situations. This course covers topics such as Disaster Psychology, Medical Assistance, Search/Rescue Techniques, and Fire Chemistry. Students demonstrate knowledge of skills obtained through participation in simulated disaster scenarios.	10-12	1 UNIT	Intro to Healthcare Science
25.5620099	CONCEPTS OF EMERGENCY MEDICINE: This course offers the student a comprehensive view of pre-hospital/emergency care. Students will follow the curriculum established by the D.O.T. for First Responders. Students will be involved in mock scenarios involving triage/mass casualty, extrication of victims in complex access situations. Patient assessment, stabilization and treatment of victims of sudden illness or injury will be covered. Students will be required to meet standards and professional guidelines set forth by Occupational Health and Safety Administration (OSHA) and the National Registry of Emergency Medical Technicians (NREMT), and the Health Insurance Portability Act of 1996 (HIPAA).	11-12	1 UNIT	Emergency & Disaster Preparedness
	JROTC CAREER PATHWAY			
	JROTC is a full year program. Students must register for one course each semester.			
28.4110099	JROTC Air Force I: 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.	9-10	1 UNIT	Approval of ROTC instructors
28.4120099	JROTC Air Force II: 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.	9-10	1 UNIT	JROTC Air Force I and Approval of ROTC instructors
2840130099	JROTC Air Force III: 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.	10-12	1 UNIT	AFJROTC II or Departmental Recommendation

COURSE #	COURSE/ DESCRIPTION	GRADE	CREDIT	PREREQUISITE
28.4140099	JROTC Air Force IV: 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.	10-12	1 UNIT	AFJROTC III or Departmental recommendation
28.4150099	JROTC Air Force V: 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.	11-12	1 UNIT	AFJROTC IV or Departmental recommendation
28.4160099	JROTC Air Force VI: 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.	11-12	1 UNIT	AFJROTC V or Departmental recommendation
28.4170099	JROTC Air Force VII: 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.	11-12	1 UNIT	AFJROTC VI or Departmental recommendation
28.4180099	JROTC Air Force VIII: 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.	11-12	1 UNIT	AFJROTC VII or Departmental recommendation

CAREER TECHNICAL MENTORSHIP AND INTERNSHIP

COURSE #	COURSE/ DESCRIPTION	GRADE	CREDIT	PREREQUISITE
70.0110099 (I) 70.0120099 (II) 70.0110096 (.5 F) 70.0110097 (.5 S)	CAREER TECHNICAL MENTORSHIP I and II: 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 <u>2 units</u> . Minimum day and internship students will not be considered for this program.	11-12	1 UNIT	Application 2.5 GPA 2 Teacher Recommendations Good discipline record
70.0210099--I 70.0220099--II 70.0230099--III 70.0240099--IV	INTERNSHIP I, II, III AND IV: 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.	11-12	1 UNIT EACH	On Track for Graduation Must have own transportation Application from Coordinator—Mrs. Crumb