GARDNER · SOUTH WILMINGTON HIGH
PANTHERS

2026 - 2027
Gardner-South Wilmington High School Course Guide

GRADUATION REQUIREMENTS **4**
ENGLISH **5**
English 1 5
English 2 Writing Intensive 5
English 3 Writing Intensive 5
English 3 Challenge Writing Intensive 5
English 4 6
English 101 Rhetoric (Joliet Junior College Dual Credit) 6
English 102 Rhetoric (Joliet Junior College Dual Credit) 6
Reading Strategies 6
Speech 7
Student Publications 7
Creative Writing 7
FINE ART **8**
Introduction to Art 8
3-D Art 8
Advanced 3-D Art 8
Drawing 8
Advanced Drawing 8
Graphic Design 9
Painting 9
Advanced Painting 9
Portfolio 9
Band 10
FOREIGN LANGUAGE **10**
Spanish 1 10
Spanish 2 10
Spanish 3 Challenge 11
Spanish 4 Challenge 11
MATHEMATICS **12**
Math Course Sequence Table 12
Pre-Algebra 12
Algebra I 12



GARDNER · SOUTH WILMINGTON HIGH
PANTHERS

Geometry....14
Geometry Challenge....14
Algebra II & Trigonometry....14
Algebra 2 Challenge....14
Pre-Calculus Challenge....15
Probability and Statistics....15
Calculus Challenge....15
MAT127 Math for General Education (Joliet Junior College Dual Credit)....15
STAT101 Introduction to Data Science (Joliet Junior College Dual Credit)....16
PHYSICAL EDUCATION....16
Physical Education....16
Lifetime Fitness and Wellness....16
SCIENCE....17
Science Course Sequence Table....17
Earth & Physical Science....17
Environmental Science....17
Biology 1....18
Anatomy and Physiology Challenge....18
Chemistry Challenge....18
Physics Challenge....18
SOCIAL STUDIES....19
Social Studies Course Sequence Table....19
World Geography....19
World History....19
U.S. History....21
Government....21
Economics....21
Contemporary Issues 1 and 2....21
Psychology....22
Sociology....22
DRIVER EDUCATION....23
Driver Education Classroom and Behind the Wheel....23
HEALTH....24
LEARNING LAB....24
SPECIAL EDUCATION....24
CAREER & TECHNICAL EDUCATION / PLTW....25
Accounting....25
Business Communications....25

Introduction to Business..... 25
Orientation to Health Occupations..... 26
Human Resource Management..... 26
Service Oriented Marketing..... 26
Introduction to Robotics PLTW..... 27
Robotics PLTW..... 27
Introduction to Engineering Design PLTW..... 27
Aerospace Engineering PLTW..... 27
JOLIET JUNIOR COLLEGE DUAL CREDIT COURSES..... 29
GRUNDY AREA VOCATIONAL CENTER COURSE OFFERINGS..... 29



GARDNER · SOUTH WILMINGTON HIGH
PANTHERS

GRADUATION REQUIREMENTS

English: **4 Credits**

English II
English III or English III
Challenge English IV or English 101/102

Mathematics: **3 Credits**

Algebra I
Geometry
Math Elective

Science: **3 Credits**

Life Science
Physical Science
Science Elective

Social Science: **2.0 or 2.5 Credits**

World Geography or World History: .5 credit
US History: 1 Credit
Government: 1 Credit
Consumers Economics or Personal Finance: .5 Credit
*Personal Finance does not count as a Social Studies Credit

Physical Education **4.0 Credits**

Health **0.5 Credit**

Electives **1.0 credit**

*Many colleges and universities require at least 2-3 years of foreign language and 3 years of Social Studies.
*Three years of mathematics required during high school.

Total Required Total Required Credits: 23

Any coursework taken in the Art, Business, Foreign Language, Music, or Career & Technical departments, which is not required may be used to fulfill the elective requirement.

Response To Intervention (RTI): As part of a comprehensive approach to academics and learning, interventions are required for all students as appropriate. Students may be released from the intervention by demonstrating developmental proficiency or determined grade level proficiency.

GARDNER · SOUTH WILMINGTON HIGH
PANTHERS

ENGLISH

English 1

Credit 1.0 Length: Two Semesters Grade Level: Ninth Requirement Prerequisite: None
Description: In this course, students will improve reading skills, specifically comprehension (summarizing, analyzing, inferring, and assessing), and vocabulary acquisition. Students will apply previously learned literary elements to various short stories in order to help students apply these elements to various genres, including short stories, a novel study (To Kill a Mockingbird), poetry and drama (Romeo and Juliet). The focus of these studies is to help students develop higher order thinking skills. In addition, students will develop writing skills including organization, development of ideas, and conventions, i.e. grammar, usage, mechanics, and punctuation. Students will complete a research project incorporating valid sources, cited according to MLA format.

English 2 Writing Intensive

Credit: 1.0 Length: Two Semesters Grade Level: Tenth Requirement
Prerequisite: English I Essentials or English I
Description: In this course, required for sophomores, students will apply previously learned literary elements to various fiction and non-fiction novels, short stories, drama and poems which all feature a multicultural theme. Students will complete a variety of essay assignments including narrative, persuasive, literary analysis, compare/contrast, and a research paper in the MLA format.

English 3 Writing Intensive

Credit: 1.0 Length: Two Semesters Grade Level: Eleventh Requirement
Prerequisite: English I and English II
Description: This is a required course for all juniors. English III is a survey of American Literature from the colonial period to the early 20th century. Through lecture, discussion, and student writing, the instructor will help students understand the relationship between historical events and literature. Students will be required to complete a research project.

English 3 Challenge Writing Intensive

Credit: 1.0 Length: Two Semesters Grade Level: Eleventh Requirement
Prerequisite: English I, English II, and Teacher Recommendation
Description: This course is designed for the above average English student who is college bound and ready for more extensive writing and reading assignments. English III Challenge is a survey of American Literature from the colonial period to the early 20th century. Through lecture, discussion, and student writing, the instructor will help students understand the relationship between historical events and literature. Students will be required to complete a research project.



GARDNER · SOUTH WILMINGTON HIGH
PANTHERS

English 4

Credit: 1.0 Length: Two Semesters Grade Level: Twelfth Requirement
Prerequisite: English I, English II, and English III
Description: This course is a survey of World Literature. Through lecture, discussion, and student writing, the instructor will help students understand major elements of formal analysis in literary work such as plot, theme, structure, characterization, setting, point of view, style, imagery, tone, and figure of speech. In addition, students will explore major analytic frameworks used in the humanities such as cultural/new historical, deconstructionist, formalist, Marxist, and reader-response.

English 101 Rhetoric (Joliet Junior College Dual Credit)

Credit: 0.5 Length: One Semester Grade Level: Twelfth
Prerequisite: Students must pass the JJC Compass test prior to the first day of class in both Reading and English
Description: This dual credit course allows eligible students the opportunity to earn both high school and college English credit. This course is designed to teach writing skills necessary for success in college. Special emphasis is placed on summary writing, exposition, and argumentation. All Joliet Junior College Courses offered at GSW are considered Challenge classes. This class has a mandatory attendance requirement.

English 102 Rhetoric (Joliet Junior College Dual Credit)

Credit: 0.5 Length: One Semester Grade Level: Twelfth
Prerequisite: “C” or better in English 101
Description: This course provides continued training and practice in composition. It employs examples of literary genres to help students develop their writing competencies. A 2500+ word research paper is required. All Joliet Junior College Courses offered at GSW are considered Challenge classes. This class has a mandatory attendance requirement.

Reading Strategies

Credit: 0.5 Length: One Semester Grade Level: Requirement based on test scores
Prerequisite: None
Description: This course is for students who wish to improve their reading comprehension and study skills. The student will be exposed to strategies for effective reading in a variety of fiction and non-fiction works. Content will comprise a variety of reading formats from all curricular areas with an emphasis on improving reading rate, flexibility, word attack skills, and critical reading skills. This course does not meet NCAA requirements.



GARDNER · SOUTH WILMINGTON HIGH
PANTHERS

Speech

Credit: 0.5 Length: One Semester Grade Level: Any Level Elective (will be offered every other year)

*Note- this course is offered on even years and will offered next for the 27/28 school year

Prerequisite: None

Description: Students will be exposed to a variety of speech communication experiences with a focus on preparation, organization, and delivery of important messages to a particular audience, including informative, demonstrative, and persuasive speeches. Students will recognize and understand how uses of body language, facial expressions, and visual and audio tools can enhance communication skills and prepare students for real-life interactions, such as college and/or job interviews.

Student Publications

Credit: 1.0 Length: Two Semesters Grade Level: Ninth and Above Elective

Prerequisite: Consent of Instructor and above average English skills

Description: Students in this class will produce the school yearbook and newspaper. All students will have hands-on experience in design and desktop publishing using InDesign CS and Photoshop 6.0. Students will also take pictures; it is highly recommended that each student have a digital camera. Fundraising is a vital and required part of this class. Students enrolled in this course are expected to be available before and after school and occasionally on weekends and during the summer to cover events, participate in fundraising activities, take pictures, and attend workshops. Enrollment is limited to no more than 15 students with priority given first to returning members, then students with the possibility of longevity. This course does not meet NCAA requirements.

Creative Writing

Credit: 0.5 Length: One Semester Grade Level: Any Level Elective

*Note- this course is offered on odd years and will offered next for the 26/27 school year

Prerequisite: None

Description: Creative Writing is for students who would like to expand their writing proficiency and explore the creative writing forms of short stories, scripts, commercials, poetry, and creative non-fiction. The class is structured as a reading and writing workshop and students will learn how to effectively give and receive constructive criticism about their writing, and revise work based on peer and faculty critiques. Students will develop a writing portfolio.

GARDNER · SOUTH WILMINGTON HIGH
PANTHERS

FINE ART

Introduction to Art

Credit: 0.5 Length: One Semester Grade Level: Any Level Elective
Prerequisite: None
Description: Students will be introduced to the many areas of the visual arts. Students will learn art elements and principles of design. They will be exploring several medias such as drawing, painting, and ceramics. Students will develop a basic art vocabulary, develop a sense of aesthetics, and form a basis for art criticism.

3-D Art

Credit: 0.5 Length: One Semester Grade Level: Any Level Elective
Prerequisite: None
Description: This class is an introduction to various three-dimensional areas. Students will learn various hand-building techniques of pottery-pinch, coil, and slab. Students will create a sculpture out of clay. Students will work with plaster, fibers, and other materials to create three-dimensional work.

Advanced 3-D Art

Credit: 0.5 Length: One Semester Grade Level: Tenth and Above Elective
Prerequisite: 3-D
Description: This course further develops skills learned in 3-D. Students will continue to build upon hand building skills as well as learn how to throw clay on the wheel. Students will be expected to create a large sculpture and will discover other areas of sculpture.

Drawing

Credit: 0.5 Length: One Semester Grade Level: Any Level Elective
Prerequisite: None
Description: This is an introductory course in drawing. Students will draw still life objects, people, and perspective drawings. Students will learn to work with line, space, value, and composition. Materials used will be pencil, charcoal, pastels, marker, and pen and ink.

Advanced Drawing

Credit: 0.5 Length: One Semester Grade Level: Tenth and Above Elective
Prerequisite: Drawing
Description: This is a continuation of techniques used in Drawing. Students will be expected to work with composition and original expression. Further development of their skills will be made using foreshortening, value, perspective, etc.



GARDNER · SOUTH WILMINGTON HIGH
PANTHERS

Graphic Design

Credit: 0.5 Length: One Semester Grade Level: Any Level Elective
Prerequisite: None
Description: Students will learn to communicate visually through design and drawing. Students will work on lettering, layout, composition, illustration, and neatness. Students will produce advertisements, posters, brochures, package design, and business cards. Students will work with computer programs such as Adobe Photoshop as well as traditional art.

Painting

Credit: 0.5 Length: One Semester Grade Level: Any Level Elective
Prerequisite: None
Description: Students will learn basic painting techniques in media such as watercolors, acrylic, and oil paint. Students will work from still life, models, and imagination.

Advanced Painting

Credit: 0.5 Length: One Semester Grade Level: Tenth and Above Elective
Prerequisite: Painting
Description: This class builds upon the painting techniques learned in painting. Students will further develop their skills using watercolor, acrylic, and oil paints.

Portfolio

Credit: 0.5 Length: One Semester Grade Level: Eleventh and Above Elective
Prerequisite: Consent of Instructor and 1 ½ Credits in Art
Description: This course is designed for students interested in further studying art or pursuing a career in art. This course will allow students to create a body of work suitable for composition and/or art school application. Students will set goals with the instructor as they work in such forms as drawing, painting, and 3-D. Students will critique their work as well as other students'.



GARDNER · SOUTH WILMINGTON HIGH
PANTHERS

Band

Credit: 1.0 Length: Two Semesters Grade Level: Any Level Elective
Prerequisite: Grade School band and/or consent of instructor
Description: Enrollment in band is open to any student with at least one year of experience on a concert/marching band instrument, or has the desire to want to learn how to play an instrument and read music. New members with few or no years of experience are required to take 15 minute band lessons in which the student will be pulled from a class during the school day once a week. In addition to regular class attendance, band students are required to attend one and a half weeks of summer marching band camp, five weeks of early bird band (7-7:45 am, 2 days per week), two Fall parades (Sundays), IHSA solo/ensemble contest, and IHSA organizational contest (Saturdays), and all home Boys Varsity Basketball Games for Pep Band (weeknights/weekends). In addition, the students will perform four concerts during the school year (weeknights), along with graduation at the end of the year (Sunday). The grade is primarily based on class and performance attendance and participation as well as written assignments and quizzes and playing tests. Attendance is required at all performances. Band students also participate in a cheese sale for the purpose of funding Music Boosters that pays for field trips, end of year awards, and band social events.

FOREIGN LANGUAGE

Spanish 1

Credit: 1.0 Length: Two semesters Grade Level: Any Level Elective
Prerequisite: Counselor placement, placement test, “C” or better in English, or consent of instructor.
Description: The instructor will introduce students to the basics of the Spanish language by emphasizing pronunciation, grammatical construction, and vocabulary building. Students engage in listening activities, comprehension tasks, and oral communication exercises. Although students will read and write in Spanish, oral communication exercises play a major role in class activities. Class participation is a major component of grading in Spanish 1 class, and includes willingness to speak and answer questions in the Spanish language. Audio-visual materials will be used to enhance Spanish comprehension. Students must complete two years of a language to meet requirements at some universities. Some colleges and universities require 2 years of college foreign language or 4 years of high school foreign language in order to graduate.

Spanish 2

Credit 1.0 Length: Two semesters Grade Level: Tenth and above elective
Prerequisite: “C” or better in Spanish 1 or consent of the instructor
Description: Spanish 2 is a continuation of Spanish 1 and includes more advanced grammatical structures and more complex communication activities. Students continue using the four basic language skills (listening, speaking, reading, and writing), but in a more advanced setting.



GARDNER · SOUTH WILMINGTON HIGH
PANTHERS

Spanish 3 Challenge

Credit: 1.0 Length: Two Semesters Grade Level: Eleventh and above Elective
Prerequisite: “C” or better in Spanish 2 or consent of Instructor
Description: Spanish 3 will build on Spanish 2 by stressing the four language skills. Spanish grammatical concepts will include increasingly complex structures. Students will be reading materials in the target language and reacting to items read in class. Class discussions in Spanish are common, and students will be communicating in Spanish for most of the class period.

Spanish 4 Challenge

Credit: 1.0 Length: Two semesters Grade Level: Twelfth Elective
Prerequisite: “C” or better in Spanish 3 or consent of Instructor
Description: An accelerated course in Spanish that focuses on expanding and perfecting previous skills of reading, writing, listening, and speaking as learned in Spanish 1, 2, and 3. Less class time is spent practicing vocabulary as students are required to learn new words on their own. Instead, a large portion of the class time is spent communicating in Spanish and learning about Hispanic culture (including food, dance, music, and literature).This course is designed for students to begin preparation for college Spanish and further their mastery of the language.

Challenge Requirements for Spanish classes

1. Students must make every effort to use spoken Spanish during each class.
2. Students can respond to questions without the need to have the question repeated several times.
3. Students can respond in Spanish by using complete sentences and by embellishing their answers.



GARDNER · SOUTH WILMINGTON HIGH
PANTHERS

MATHEMATICS

Math Course Sequence Table

			8th Grade Algebra
9th Grade	Pre-Algebra	Algebra	Algebra II C
10th Grade	Algebra	Algebra II	Geometry C
11th Grade	Geometry	Geometry	Pre-Calculus C (Elective- Data Science or/and Statistics)
12th Grade	Algebra II	Statistics OR Pre-Calculus	Calculus C (Elective- Statistics or/and MAT127)

Pre-Algebra

Credit 1.0 Length: Two Semesters Grade Level: Ninth Requirement
Prerequisite: Placement Test
Description: This one year course is designed to cover the material needed to prepare for Algebra I. Students will learn basic mathematical skills along with an introduction to the following Algebra I concepts: Operations with Integers, Operations with Rational Numbers, Expressions and Equations, Ratios, Proportions, Percents and Similar Figures, Linear Functions and Graphing, Powers and Nonlinear Functions, Real Numbers and Right Triangles, Distance and Angle, Surface Area and Volume, and Statistics and Probability. This course does not meet NCAA requirements.

Algebra I

Credit: 1.0 Length: Two Semesters Grade Level: Ninth Requirement
Prerequisite: Teacher Recommendation
Description: Algebra I is a class designed for students who have had success with mathematical and pre-algebra skills. Algebra I is designed to answer questions through integration, applications, and connections. In this class we will emphasize the study of linear and quadratic equations and inequalities. The class will apply these points of view through the use of word problems involving percents, motion, money, interest, and mixture. Graphing and interpreting graphs are also applied to problem solving.



GARDNER · SOUTH WILMINGTON HIGH
PANTHERS

Geometry

Credit: 1.0 Length: Two Semesters Grade Level: Tenth and Eleventh Requirement
Prerequisite: Algebra I or Consent of Instructor
Description: Students will study logical reasoning by applying and analyzing geometric concepts. Students will use mathematical theories, definitions, and postulates to prove geometric concepts such as triangle congruence, segment relationships, angle relationships, circles, and quadrilaterals. Students will also apply the Algebra learned through the study of coordinate Geometry. Students will work with the computer program Geometer's Sketchpad to help aid in the understanding of the geometric concepts learned.

Geometry Challenge

Credit: 1.0 Length: Two Semesters Grade Level: 10th grade (will satisfy Geometry Requirement)
Course Description:
Prerequisite: Algebra 2 Challenge or Consent of Instructor
Description: This is an accelerated course for students. Students will study logical reasoning by applying and analyzing geometric concepts at an advanced level through more difficult and time-consuming proofs. Students will use the fundamentals of geometry to understand and apply concepts such as triangle congruence, segment applications, angle applications, circles, quadrilaterals, area, and volume.

Algebra II & Trigonometry

Credit: 1.0 Length: Two Semesters Grade Level: Tenth or Eleventh Requirement
Prerequisite: Algebra I and Geometry or Consent of Instructor
Description: Students who have successfully completed Algebra I and Geometry should plan on taking Algebra II. Algebra II starts with a continuation of concepts studied in Algebra 1. Students will be challenged by new concepts that require graphing skills, function analysis, solving higher order equations and inequalities, investigating complex number systems, and working with matrices, logarithms, conic sections, data analysis, and probability. The class will conclude with the study of trigonometry. This course is a prerequisite for Pre-Calculus.

Algebra 2 Challenge

Credit: 1.0 Length: Two Semesters Grade Level: 9th
Course Description:
Prerequisite: Algebra I Challenge or Consent of Instructor
Description: Algebra II is a rigorous, accelerated course for the college-bound student. The class is designed to illustrate how you will be using algebra in the real world. The student will be required to apply word problems and higher-order thinking skills needed to solve problems. The students will study the applications of equations and inequalities and systems of equations and inequalities. Functions such as quadratic, polynomial, rational, radical, exponential, and logarithmic will be studied and explored.



GARDNER · SOUTH WILMINGTON HIGH
PANTHERS

Pre-Calculus Challenge

Credit: 1.0 Length: Two Semesters Grade Level: Eleventh or Above
Prerequisite: Algebra I, Geometry, Algebra II & Trigonometry or Consent of Instructor
Description: Pre-Calculus is a class for students who wish to prepare for a college math course or for calculus. The class will concentrate on units which cover relations, functions, and graphs; trigonometry; advanced functions and graphing; and ending with an introduction to calculus. We will introduce the graphing calculator and its applications to problem solving.

Probability and Statistics

Credit: .5 Length: One Semester Grade Level: Eleventh or Twelfth Elective
Prerequisite: Algebra 1 & Geometry
Description: This is an introductory course on Probability and Statistics that will provide students with the skills necessary to analyze many real life situations in a data driven world. Students will work with probability, data collection, descriptive and inferential statistics, and technological tools used to analyze statistics (computer and graphing calculator). Students will learn how to explore data, plan a study, produce models using probability theory, and make statistical inferences about data. Students will become familiar with different methods of data collection, methods of determining probability, binomial and normal distributions, hypothesis testing, and confidence intervals. Students will learn how to present data in numerous different methods including written descriptions, numerical statistics, formulas, and graphs. This course does not meet NCAA requirements.

Calculus Challenge

Credit: 1.0 Length: Two Semesters Grade Level: Twelfth Elective
Prerequisite: Pre-Calculus Challenge or Consent of Instructor
Description: This is a fifth year course for serious students interested in mathematics in college. The student will concentrate on several studies including engineering, physics, business, finance, and life science. By dividing the class into the study of derivatives and integrals, the student will investigate velocity, acceleration, profit, revenue, cost, and property values.

MAT127 Math for General Education (Joliet Junior College Dual Credit)

Credit: 0.5 Length: One Semester (3 College Credits) Grade Level: 12th
Prerequisite: Satisfactory ALEKS placement test score or “C” or better in MATH 098 or equivalent. Students also must be enrolled in Pre Calculus Challenge or Calculus Challenge or have taken Probability and Statistics Challenge at GSWHS.
Description: A survey course of mathematical concepts used widely in the physical and social sciences. Intended for students whose programs do not specify a particular mathematics course. The course focuses on mathematical reasoning and the solving of real-life problems. Three or four topics from the following general

areas are studied in depth: geometry, graph theory, mathematical modeling, mathematics of finance, social choice theory, and statistics.

STAT101 Introduction to Data Science (Joliet Junior College Dual Credit)

Credit: 0.5 Length: One Semester (3 College Credits) Grade Level: 11th
Prerequisite: Satisfactory ALEKS placement test score or "C" or better in MATH 090 or equivalent. Students also must be enrolled in Pre-Calculus Challenge at GSWHS or have a teacher recommendation.
Description: This is an introductory course to the field of data science and roles of a data scientist. Topics will include: history of data science, ethics, available tools, methodology, visualization and pathways to data science careers. This course will expose students to applications in various fields and prepare them to be critical thinkers of future career paths.

PHYSICAL EDUCATION

Physical Education

Credit: 1.0 Length: Two Semesters Grade Level: All Level Requirement
Prerequisite: None
Description: This course will teach the students about lifetime fitness. It will focus on activities that can be participated in throughout life. Physical fitness will be a focus to help maintain a physically fit body and healthy lifestyle. Students will also learn leisure time activities and the rules, strategies, and techniques of a variety of games and sports. Besides seeking to improve and maintain physical fitness, instructors will provide opportunities for students to develop leadership skills, respect for others, and appreciation for interdependence and teamwork. Teambuilding exercises will be a focus to help with real life situations. The course will include the Presidential Physical Fitness Test. Students will be able to track their scores throughout their high school career. The instructors will help the students set post high school health and fitness standards. Seniors wishing to have a second PE class may petition to do so.

Lifetime Fitness and Wellness

Credit: 1 Length: Two Semester Grade Level: 9-12 Science
Course Description:
Embark on a journey to a healthier, more active lifestyle with our Lifetime Fitness and Wellness course. Tailored for students 9-12, this two-semester-long class focuses on developing lifelong habits that promote physical well-being, mental health, and overall fitness. Throughout the course, students will explore various components of fitness, including cardiovascular endurance, strength training, flexibility, and nutrition. Practical and engaging activities will be integrated, offering students the opportunity to participate in diverse exercises, performance-based improved training skills, and wellness practices. In addition to physical activities, the curriculum will cover topics such as stress management, goal setting, and the importance of sleep for overall health. Students will gain insights into creating sustainable fitness routines that can be integrated into their daily lives.

GARDNER · SOUTH WILMINGTON HIGH
PANTHERS

SCIENCE

Science Course Sequence Table

9th Grade	Earth & Physical Science
10th Grade	Biology or Earth & Physical Science Environment Science (with teacher recommendation)
11th Grade	Environmental Science Anatomy & Physiology C Chemistry C Physics C
12th Grade **Elective Choices**	Environmental Science Anatomy & Physiology C Chemistry C Physics C

Earth & Physical Science

Credit: 1.0 Length: Two Semesters Grade Level: Ninth or Tenth Requirement
Prerequisite: Concurrent enrollment in Algebra I.
Note: Students who have not completed Algebra I prior to taking the course will be pushing themselves to master the work and calculations. Good study habits are essential.
Description: Physical Science is an introduction to the basic ideas in physics and chemistry. This course includes concepts such as: motion, forces, conservation of matter and energy, gravity, machines, electricity, waves, structure of atoms, periodic table principles, and chemical bonds. These concepts are investigated through laboratory experiences designed to promote and develop skills in scientific inquiry.
Earth Science introduces how the physical science concepts are applied to the earth and its surroundings. This course will cover the following topics: solar system, stars, exploring the universe, weather and climate, earth's interior and surface composition, topography, and oceans.

Environmental Science

Credit: 1.0 Length: Two Semesters Grade Level:Tenth or Above Elective
Pre-Requisites: None
Description: An Environmental Science course is designed to immerse students in the physical, biological, and earth systems sciences that shape our environment. Scientific concepts, principles, and modern science practices allow students to analyze environmental issues, both natural and human induced, and engage in evidence-based decision making in real world contexts.



GARDNER · SOUTH WILMINGTON HIGH
PANTHERS

Biology 1

Credit: 1.0 Length: Two Semesters Grade Level: Tenth and Above Elective; Freshmen taking Biology must have taken 8th Grade Algebra.
Prerequisite: Physical Science or 8th Grade Algebra
Description: Students will learn about various phenomena, such as: ecosystem stability and collapse, cellular structure and function, genetic normalities and abnormalities, genetic lineages, as well as change over time in populations.

Anatomy and Physiology Challenge

Credit: 1.0 Length: Two Semesters Grade Level: Eleventh and Above Elective
Prerequisite: Biology with a C or higher or Consent of Instructor
Description: Students will study the organ systems of the body and the diseases that affect them. In depth studies include cells and tissue, structure and function of the human body, mechanisms of disease, and information on blood. The body's senses, nutrition, and metabolism will also be discussed. Dissection may be required along with other lab experiences. Mammal species will be used for study.

Chemistry Challenge

Credit: 1.0 Length: Two Semesters Grade Level: Eleventh and Above Elective
Prerequisite: Physical Science, Algebra I with a grade of 85% or better (no exceptions), and previous or concurrent enrollment in Algebra II. Solid Algebra skills and excellent study habits are essential.
Description: Chemistry will provide the background that you will need for more specialized training in college or technical school. Much of this course deals with the quantitative nature of chemistry (amounts of chemicals and methods of measurement). Therefore, Chemistry is a laboratory and mathematics-oriented course covering topics which include atomic structure and properties, chemical bonds and reactions, acids, bases, gas laws, thermodynamics, and organic chemistry.

Physics Challenge

Credit 1.0 Length: Two Semesters Grade Level: Eleventh and Above Elective
Prerequisite: Physical Science and Algebra II with a grade of 85% or above (no exceptions). Solid Algebra and Trigonometry skills combined with excellent study habits is essential. Recommended concurrent enrollment in PreCalculus.
Description: Physics will provide the background that you will need for more specialized courses in college or technical school. Physics is the basic science of matter and motion. Most of the course is centered on providing mathematical interpretations for scientific principles. Therefore Physics is a laboratory and mathematics-oriented course where students will study the following concepts: velocity, force, acceleration, inertia, momentum, energy, gravity, gas laws, thermodynamics, sound, light, electricity, and magnetism.

GARDNER · SOUTH WILMINGTON HIGH
PANTHERS

SOCIAL STUDIES

Social Studies Course Sequence Table

9th Grade	World History AND/OR World Geography (semester courses, 1 is required)
10th Grade	
11th Grade	US History
12th Grade	Government (semester 1) Consumer Economics (semester 2)
Elective choices	Contemporary Issues (1 or 2 semesters) Grades 10-12 Psychology (1 semester) Grades 11 & 12 Sociology (1 semester) Grades 11 & 12

World Geography

Credit: 0.5 Length: One Semester Grade Level: Ninth Grade Requirement (1 of 2 Choices)
Prerequisite: None
Description: Students will develop map skills and knowledge of the world as they study each continent. The five themes of Geography will be used to provide a foundation in physical and political geography. Atlas and map work will constitute much of the learning. Besides an emphasis on maps, the instructor will review cultures, political systems, and sociological issues as they relate to different parts of the world. Current events will be discussed as they relate to countries around the world. Projects will be a part of each unit of study.

World History

Credit: 0.5 Length: One Semester Grade Level: Ninth Grade Requirement (1 of 2 Choices)
Prerequisite: None
Description: Students will learn how civilizations developed including but not limited to the "ancient civilizations" (i.e. Mesopotamians, the Greeks, the Romans, and the Hebrews). The class will also cover people and events from these areas and periods that helped shape the world today. Beginning with the birth of civilizations, the instructor will cover religious, social, political, economic, geographic, and scientific factors. A variety of mediums will be used such as: newspapers, magazines, text and video for deeper understanding of the world.



GARDNER · SOUTH WILMINGTON HIGH
PANTHERS

U.S. History

Credit: 1.0 Length: Two Semesters Grade Level: Eleventh or Twelfth Requirement
Prerequisite: World Geography or World History
Description: Students will trace the development of the United States from the beginning of European exploration to the present. The instructor will pay special attention to various political, social, and economic events that had an impact on America's growth and development. The instructor will place current events in a historical context and explain how an understanding of history will help students better fulfill their responsibilities as citizens. Students will also make presentations, read historical literature, write essays, and do projects relating to specific historical events.

Government

Credit: 0.5 Length: One Semester Grade Level: Twelfth or Eleventh Requirement
Prerequisite: Senior Standing
Description: Students will study local, state, and national government and politics. The instructor will illustrate how these units of government are linked together into a global relationship. To successfully complete this class, students must pass the federal and state constitution tests and possibly the American flag test.

Economics

Credit: 0.5 Length: One Semester Grade Level: Twelfth or Eleventh Requirement
Prerequisite: Senior Standing
Description: Students will learn about life skills that will help them to become better consumers and citizens. The instructor will use hands on activities, group work, and the text to reach and reinforce these goals. Experiences are designed to help students cultivate values and to develop a perspective of their places in the American Economy. Passing this class is required by the State of Illinois. This course does not meet NCAA requirements.

Contemporary Issues 1 and 2

Credit: 0.5 each Length: One Semester Grade Level: Tenth and Above Elective
Prerequisite: None
Description: The class is designed to be a combination of current events and social problems in our society. Contemporary Issues deals with the social, political, and economic problems facing the American people and the world. There is no way that one can study all the problems that face the public; therefore, only a few will be chosen as detailed points of study. A variety of mediums will be used including the news, videos, newspapers, and Up Front magazine. Topics chosen by the instructor are used to create discussion. Group activities will also be used to create thought and discussion. Both sides of an issue are given, and the students are asked to decide which they agree with most. Students will take notes over each unit topic, with activities designed to correlate with the material covered. Possible topics of discussion include censorship, discrimination, domestic violence, euthanasia, death penalty, history of Rock n' Roll and its affect on the U.S. culture. This course does not meet NCAA requirements.



GARDNER · SOUTH WILMINGTON HIGH
PANTHERS

Psychology

Credit: 0.5 Length: One Semester Grade Level: Eleventh and Twelfth Elective
Prerequisite: None
Description: Students will learn about the different schools of psychology and the contribution of each to the understanding of behavior. The instructor will stress learning, cognition, personality, psychological disorders, and research techniques. Experiments will be conducted in class when applicable. Student assessment will include tests, quizzes, presentations, outside reading, and class participation.

Sociology

Credit: 0.5 Length: One Semester Grade Level: Twelfth Elective (or Eleventh Grade with Teacher Recommendation)
Prerequisite: None
Description: Students will explore how society shapes our behaviors, values, and identities. Topics like socialization, gender norms, race, deviance, culture, and teenage challenges will be examined through discussions and interactive activities. In this class, students will break social norms, explore the influence of family and culture, and analyze social pressures related to gender and identity. The class features hands-on activities such as observational research, group discussions, and labs to deepen understanding of how individuals and society interact.
Note: This course may be repeated with teacher recommendation.



GARDNER · SOUTH WILMINGTON HIGH
PANTHERS

DRIVER EDUCATION

Driver Education Classroom and Behind the Wheel

Credit: 0.25 Length: One Quarter Grade Level: 9-10

Prerequisite: Students must be 15 years old by the first day of the class (4th quarter students must be 15 by April 1). Priority goes to students with tenth grade standing and students who are over sixteen.

1. Students must pass eight classes the previous two semesters before taking driver education. (state law)
2. Classroom – Nine Weeks (30 Clock Hours) and Driving Time- Six Hours

Description: Every year thousands of people lose their lives in automobile accidents, and many more are injured. The majority of persons involved in these accidents are in the age group of 15-25. It is the purpose of driver education to reduce the number of road accidents through the education of our young drivers. The course is divided into two parts – the classroom phase and the driving phase. The classroom phase is a period of nine weeks. It is a state law that all students must be in the classroom (seat hours) for thirty hours. Students and parents will be told how many days the students can miss based on the time of year the quarter is offered. If a student does not meet the time requirement they will be dropped from the course and placed in Physical Education. The second phase of driver education is a six-hour behind the wheel requirement. The driving time will be set up according to the students' available time to drive, student's birth date, and the instructor's driving periods. Students must hold a permit for nine months in order to get a driver's license. There is no guarantee that the student will finish both phases of driver education before their sixteenth birth date, or that they will get their license on their sixteenth birth date. Permits will be issued approximately three weeks after the nine week course has begun. If a student does not pass the classroom portion of driver's education, they will have to retake it at a later time based on class availability. Students lose their chance to drive if they fail the classroom portion. If a student does not pass the driving portion, or a parent wishes to pull the student from driving, then the student will have to retake the driving portion at a later time based on availability. Parents need to practice with the student approximately ten hours before the student enters the driver's education car. If the instructor believes that this has not occurred and the student is not improving as a result, the instructor reserves the right to discontinue driving with the student. The student will have to make up the driving time during the next school year. Even while driving with the instructor parents need to continue to practice driving with the student. Students are required to log 50 hours of driving time with their parent. Students will receive 6 hours of driving time with their instructor. If a student is removed from the classroom portion as a result of not meeting the 30 required attendance hours or fails for academic reasons, the classroom portion fee will have to be paid again to retake the course.



GARDNER · SOUTH WILMINGTON HIGH
PANTHERS

HEALTH

Credit: 0.5 Length: One Semester Grade Level: Tenth Requirement
Prerequisite: Tenth Grade Standing
Description: This course is required for graduation by the State of Illinois. The course provides in-depth instruction in the following areas: human anatomy; mental health (including death education); substance abuse; nutrition; chronic and infectious diseases (including A.I.D.S. education); human sexuality; and first-aid (including C.P.R.). Students will be provided with information to help change their behaviors towards leading a healthy, more positive, productive life.

LEARNING LAB

Credit: 0 Length: One Semester – 1 School Year Grade Level: Any Level Elective
Prerequisite: None
Description: Learning Lab is a designated time that students will have to work on assignments from their academic course load. Learning Lab will be monitored by a teacher, who will periodically review grades and missing work individually with each student. School rules, as well as specific Learning Lab rules, will be enforced. Learning Lab is designed to help students keep up on their school work. There may also be short monthly lessons for students on topics relevant to them. Some examples of topics that may be covered include how to use a planner, how to use TeacherEase, where to go for help, etc.

SPECIAL EDUCATION

A variety of Special Education courses are offered at GSW. These courses vary greatly depending on student need.

Accounting

ISBE 12104A001

Credit: .5 per semester Length: Two Semesters* Grade Level: Any Level Elective

Prerequisite: None

This is an entry level course designed to introduce students to the study of accounting. Fundamental concepts and principles are emphasized for decision making. Preparation and analysis of the balance sheet and income statement are underlying units of the course. Students will learn the accounting cycle method of keeping records for a business including assets, liabilities and stockholder's equity. Students will gain an understanding of accounting procedures and the ability to use accounting data effectively. This course can be beneficial for any student who plans to pursue a degree in business or a related field after graduation. Accounting is currently the most in-demand college major.

*Students may take only semester 1 of this course if they are unable to fit in the second semester.

Business Communications

ISBE 12009A001

Credit: .5 per semester Length: One Semester Grade Level: Any

Prerequisite: None

Description: This course explores the basic principles of business communications courses and will help students to develop an understanding and appreciation for effective communication in business situations and environments. Emphasis is placed on all phases of communication: speaking, listening, thinking, responding, reading, writing, communicating nonverbally, and utilizing technology for communication. Business communication functions, processes, and applications in the context of business may be practiced through problem-based projects and realworld application.

Introduction to Business

(B1001) ISBE 12001A001

Credit: .5 per semester Length: Two Semesters* Grade Level: Any Level Elective

Prerequisite: None

Description: This course is designed to provide an overview of business and technology skills required for today's business environment. Topics covered will include the various forms of business ownership, including entrepreneurship, as well as the basic functional areas of business (finance, management, marketing, administration, and production). Students will learn essentials for working in a business environment, managing a business and owning a business. Professional communication skills and practices, problem-solving, ethical and legal issues as well as other workplace skills will be taught and integrated within this course.

*Students may take both semesters for this course or only semester 1 or only semester 2.



GARDNER · SOUTH WILMINGTON HIGH
PANTHERS

Orientation to Health Occupations

ISBE 14001A001
Credit: .5 per semester Length: One Semester Grade Level: Any
Prerequisite: None
Description: The course exposes students to the variety of opportunities available within the health care industry (e.g., such as nursing, therapy, vision and dental care, administrative services, and lab technology),. The main purpose of this course is to assist students in further development of their self -concept and in matching personal abilities and interest to a tentative career choice. Information into health occupations careers and trends, the occupational and educational opportunities, and the educational, physical, emotional, and attitudinal requirements are also addressed.

Human Resource Management

ISBE 12058A001
Credit: .5 per semester Length: One Semester Grade Level: Any
Prerequisite: None
Description: This course provides students with an understanding of the effective use of interpersonal skills in achieving the goals of an organization.

Service Oriented Marketing

ISBE 12167A002
Credit: .5 per semester Length: One Semester Grade Level: Any
Prerequisite: None
Description: This course explores the basic principles of marketing such as the creation of concepts, strategies, and the development of marketing plans. Students learn about the components of the marketing mix, target marketing, sponsorship, event marketing, promotions, proposals, and execution of planning. This course emphasizes strong decision -making, critical thinking, and collaborative skills to complete group marketing projects throughout the semester. Students will be challenged to create new marketing ideas as they analyze current marketing trends. Students will also explore the legal aspects of these industries. Real life projects allow students to demonstrate their understanding of these areas. This course will examine the impact of marketing in our everyday lives, as well as teach many critical business concepts to ready students for a career in the area of marketing.



GARDNER · SOUTH WILMINGTON HIGH
PANTHERS

Introduction to Robotics PLTW

Credit: .5 per semester Length: Two Semesters Grade Level: Any
Prerequisite: None
A hands-on course where you will learn to code, build, and bring robots to life using VEX Robotics. Students will program motors and sensors, tackle engineering challenges, and explore block-based coding while getting to use cutting-edge tools like AI and VR. The course wraps up with a research-based capstone final project, where students design, build, code, and present a VEX robot that tackles a real-world problem. Basic math skills (multiplication and division) will be used in this course.

Robotics PLTW

Credit: .5 per semester Length: Two Semesters Grade Level: Any
Prerequisite: Concurrent enrollment in Geometry or higher Mathematics course
Students explore robotics and automation as they take on the role of interns, and work in teams to create prototypes to meet the needs of clients. They build and analyze mechanical systems and automate them with programmed input and output devices. Math skills will be used in this course (ratios and equations)

Introduction to Engineering Design PLTW

Credit: .5 per semester Length: Two Semesters Grade Level: Any
Prerequisite: Concurrent enrollment in Algebra or higher Mathematics course
Course Description: Introduction to Engineering Design (IED) is an engineering course in the PLTW Engineering Program. In IED, students explore engineering tools and apply a common approach to the solution of engineering problems, an engineering design process. Utilizing the activity-project-problem-based (APB) teaching and learning pedagogy, students progress from completing structured activities to solving open-ended projects and problems that require them to plan, document, communicate, and develop other professional skills. Through both individual and collaborative team activities, projects, and problems, students apply systems thinking and consider various aspects of engineering design including material selection, human-centered design, manufacturability, assemblability and sustainability. Students develop skills through 3D computer modeling using a Computer Aided Design (CAD) application. As part of the design process, students manufacture 3D-printed prototypes using an additive manufacturing process.

Aerospace Engineering PLTW

Credit: .5 per semester Length: Two Semesters Grade Level: 11-12
Prerequisite: Physics C or current enrollment in Physics C
Students will explore fundamentals of flight in air and space through software simulations and hands-on experiences. Students learn how these concepts apply to a career in aerospace engineering and to other engineering fields.



GARDNER · SOUTH WILMINGTON HIGH
PANTHERS

A variety of Advanced Placement (AP) courses will be made available to GSW students through neighboring high schools. Students wishing to take advantage of this opportunity will be responsible for paying tuition and their own transportation.

JOLIET JUNIOR COLLEGE DUAL CREDIT COURSES

Additional information on courses that offer dual credit with Joliet Junior College can be found at:
https://jjc.edu/getting-started/admissions/dual-credit
The Joliet Junior College Dual Credit Handbook can be found here:
https://jjc.edu/sites/default/files/PDFs/Dual%20Credit/2024-2025%20Dual%20Credit%20Student%20Handbook%202nd%20edition%20-.pdf

Students enrolled in JJC dual credit courses must pay Joliet Junior College a fee ($12 per credit hour) for college credit.This is set up through the student's Joliet Junior College student account.

The following courses are offered at GSW as dual credit courses and are considered to be Challenge courses:

ENG101/102 - English 101 & 102 Rhetoric
MATH 127- Mathematics for General Education
STAT101- Introduction to Data Science



GARDNER · SOUTH WILMINGTON HIGH
PANTHERS

GRUNDY AREA VOCATIONAL CENTER COURSE OFFERINGS

All Grundy Area Vocational Center (GAVC) courses are designed as two-year programs. Students can elect to take one year of a program and not return for year two with the exception of cosmetology. Students in this program receive four hours of classroom and practical work experience each day. Due to the GAVC schedule students attending GAVC might not be able to attend all assemblies. All students who elect to attend GAVC classes are expected to be familiar with rules that relate to conduct and discipline at the Center and/or cosmetology. Attendance in this program is a privilege, not a right. The Learning Lab period prior to and the bus ride to Morris is considered to be part of the GAVC experience. If behavioral infractions occur in either place, discipline will be assigned. If the student accumulates 3 behavioral infractions they will be removed from the GAVC program. Any violation of a safety or security nature may result in the student being immediately removed from GAVC. At that time, the student will be removed from GAVC and charged for the tuition of the class. Discipline-related incidents will be handled by the Center and referred back to GSW. If a student is suspended from GSW the student is not allowed to attend classes at GAVC and the absences at GAVC will be unexcused. Students are also reminded that their continued attendance at GAVC is dependent upon their behavior riding the bus to and from GAVC. GAVC students are required to sign a behavioral contract. Copies of this contract are available upon request in the Principal's office or the Guidance office. In addition, for sequential courses, such as Building Trades I & II, if a student earns a D for the final semester grade of the course, the student will not be allowed to continue to the next course without teacher recommendation. If a student earns an F for the final semester grade of the course in a sequential course, the student will not be allowed to continue to the next course. GAVC students will not be sold a parking permit if they still owe previous school fees and/or need to meet any previous school obligations.

AGRICULTURE EDUCATION

AGRICULTURE SCIENCE I GRADES 11 - 12
1 YEAR
Prerequisite: *None*
In the Agriculture I class students will dive into the purpose, management, health and physiology of animals such as fish/marine life, chickens, cattle, pigs, goats, sheep, cats and dogs. Students will have opportunities to handle each animal, learn how to train them and keep some in the classroom/at the school farm as projects for the year. These projects will be treated as businesses, where students will make managerial decisions on the production and marketing of their products. Along with learning how to train and care for animals, students will learn about the scientific and technological side of modern agriculture as it pertains to crops and animals. Students will also become more informed on meat production, processing and marketing. In the spring, students will maintain their animal projects as well as explore plant science concepts. Agriculture is incorporating more science and technology, therefore, students will gain insight on these new concepts while applying them to traditional production methods. Students will be involved with the planting and harvesting of the plot.



GARDNER · SOUTH WILMINGTON HIGH
PANTHERS

AGRICULTURE SCIENCE II GRADES 11 - 12
1 YEAR

Prerequisite: *Successful completion of Agriculture Science I with grade C or better*

In the Agriculture Science II class, students will continue and extend their SAE projects developed in Ag Science I. Students will be required to keep a record book on their project. They will also be responsible for furthering their research and creating a more challenging project during this class. Students will study Agriculture Business and its many areas of focus including greenhouse management, floral design, veterinarian technology, and biological sciences.

BUSINESS, MARKETING & COMPUTER EDUCATION

COMPUTER GRAPHICS & MULTIMEDIA DESIGN I GRADES: 11 - 12 1 YEAR

Prerequisite: *None*

This interactive multimedia course provides occupational preparation for careers in the digital design and multimedia world. Students will master a wide variety of skill sets ranging from graphic design; including pixel/vector base editing, page layout design, video and audio editing, motion graphics and visual effects, and 3d modeling and virtual reality. This class will also touch on areas like UX design and mobile app development. They will learn to utilize complex equipment such as Wacom Intuos drawing tablets, 4k Video Cameras, DSLR cameras, GlideCam XR-Pro, and the HTC Vive. Students will have direct access to a green screen/Virtual Reality studio built right in the classroom. Adobe CC Suite is available with heavy focus on Photoshop, Illustrator, Audition, Premiere Pro, and After Effects. 3d Modeling software will be Blender/Autodesk 3ds Max. This is a great opportunity for students to express themselves creatively with computers.

COMPUTER GRAPHICS & MULTIMEDIA DESIGN II GRADE: 12
1 YEAR

Prerequisite: *Computer Graphics & Multimedia Design I, with a C grade or better.*

Students will apply and expand their knowledge and skills acquired in Computer Graphics & Multimedia Design I. Students are afforded the opportunity to select a software(s) area of interest, from Computer Graphics & Multimedia Design I, and focus intently on it. Other programs such as Adobe XD, Adobe Animate, FL Studio, Unity, Blender, and Unreal Engine will be available for them as well. The goal of this class is for students to walk away with an updated/completed portfolio that is ready for life after high school.



GARDNER - SOUTH WILMINGTON HIGH
PANTHERS

ENTREPRENEURSHIP I GRADES: 11 - 12
1 YEAR
Prerequisite: *None*
This program offers students an authentic entrepreneurship experience while gaining knowledge and skills necessary to own and operate their own businesses. Students will develop professionalism while playing an active role in a student centered T-shirt printing company called Express Impress. They will participate in situations closely resembling actual on-the-job situations. Through these experiences, students will gain insight into the work environment, thereby assisting in their own transition from school to the workplace. This course will also provide occupational preparation for careers in the digital media and graphic communications world. Students will master a wide variety of skill sets ranging from graphic design, digital media, and visual communication. Adobe CC Suite is available with heavy focus on Photoshop, Illustrator, and Premiere Pro. This course is also designed to develop computer application skills that include word-processing and spreadsheet software in a Windows environment using Microsoft Word and Excel. Microsoft Office curriculum will be enriched with daily application in projects and student work. Students will utilize the intuitive functions of these programs in order to increase efficiency and productivity while supporting creative usage. Lastly, students will be in charge of creating the GAVC yearbook. Students will learn basic principles of yearbook production and develop skills that include writing copy, captions, headlines, digital photography, and desktop publishing.

ENTREPRENEURSHIP II GRADES: 12
1 YEAR
Prerequisite: *Successful completion of Entrepreneurship I*
The Advanced Entrepreneurship Program at the Grundy Area Vocational Center offers high school seniors an immersive experience in business innovation and leadership. Students will master Intuit Design for Delight Innovator methodology, complemented by their Entrepreneurship Small Business certification from year one, culminating in a prestigious Master Certification in Entrepreneurship. Through hands-on projects, students will hone their proficiency in Microsoft Office applications, earning level two certifications in Word, Excel, and PowerPoint. They'll take charge of managing and leading the Express Impress School Business, overseeing orders and guiding first-year students through the process. Additionally, students will take on the role of chief editors for the GAVC yearbook, mentoring first-year staff editors to ensure a polished final product. Advanced Canva courses will empower students to craft compelling presentations, master social media strategies, and develop their personal and business branding. Moreover, students will have the freedom to pursue specialized projects aligned with their interests, preparing them for future endeavors in entrepreneurship and beyond. This comprehensive program equips students with the skills, knowledge, and autonomy necessary to thrive in the dynamic world of business



GARDNER - SOUTH WILMINGTON HIGH
PANTHERS

HEALTH SCIENCE TECHNOLOGY

HEALTH OCCUPATIONS I GRADES: 11 -12
1 YEAR
Prerequisite: *None*
This course includes skills to prepare the health science student for a solid foundation in the health care field. The student receives instruction in the basic fundamentals of patient care both in theory and clinical practice. The student will develop basic skills in body mechanics, medical asepsis, ethics, safety and medical terminology, as well as personal care of patients. Participation in clinical practice at local health care facilities provides the student with actual hands-on experience in a variety of situations. Students are required to complete a physical and 2 step TB test to participate in clinical practices. Upon successful completion of the course, the student will be prepared to take the State Certified Nursing Assistant exam. Students must maintain an 80% or better throughout the course in order to qualify to take the State Certified Nursing Assistant exam.

HEALTH OCCUPATIONS II GRADE: 12
1 YEAR
Prerequisite: *Successful completion of Health Occupations I with an 80% or better. Successful completion of the Certified Nursing*
Assistant Examination.
The course includes skills to prepare the health science student for a specific career in the health science and technology field. The student will be exposed to a variety of occupations in both nursing and an allied health field. The first semester will provide reliable and realistic information about health careers with exploratory learning experiences. The student will be exposed to additional knowledge in medical language, medical math, anatomy and physiology, and job skills training. Students will develop a portfolio for working in the health care industry, which includes extensive material from their clinical rotation at Morris Hospital. Anatomy and pathology are discussed for interest and background rather than for mastery.

TECHNOLOGY & ENGINEERING EDUCATION (INDUSTRIAL ORIENTED)

AUTOMOTIVE TECHNOLOGY I GRADES: 11 - 12
1 YEAR
Prerequisite: *None*
This course is ASE Education Foundation (ASEF) accredited. The course covers shop orientation and safety procedures including use of the lifts and hand tools. The core content will focus on tire repair and replacement procedures, vehicle fluid services, basic brake system service and operation, steering and suspension service with alignments, basic automotive electrical system operation and repair, and engine performance diagnostic procedures. Students will have the opportunity to learn about engine disassembly and reassembly as well as theory of operations.



GARDNER - SOUTH WILMINGTON HIGH
PANTHERS

AUTOMOTIVE TECHNOLOGY II GRADE: 12
1 YEAR
Prerequisite: *Automotive Technology I, with a C grade or better.*
This course focuses on advanced automotive systems and service procedures. It will go more in depth in diagnosing and repairing vehicles and repairing vehicle faults created by the instructors. This course will also go more in depth in braking systems to include anti-lock brakes and brake boosters. Students will diagnose alignment issues and perform alignment work on customer vehicles. Second year students will have a larger focus on engine performance diagnosis covering everything from fuel, ignition, exhaust, starting and charging, and emission system diagnosis and repair. Air bag and passenger restraint system safety and procedures will also be covered along with advanced electrical diagnostics with vehicle computer systems and components. Students will have the opportunity to earn 8 different Automotive Service Excellence (ASE) student certifications, upon completion of each corresponding module

BUILDING TRADES PHASE I GRADES: 11 - 12
1 YEAR
Prerequisite: *None*
Students will build a single family home. Students will explore and learn all of the facets of the first phase of residential new construction. This includes safety as a priority, technical math / layout, excavation, concrete, structure framing, rough electrical wiring, and roofing. Along with these tasks students will also learn to safely operate a vast array of equipment which is used industry wide to perform these tasks. As the students come to know what is involved in the different areas of construction, they will be able to make an informed choice as to which area of the building trades they would like to pursue as a vocation.

BUILDING TRADES PHASE II GRADE: 12
1 YEAR
Prerequisite: *None*
Students will complete the construction of a single family home. Students explore all of the facets of the second phase of new residential construction. This includes safety as a priority, technical math, HVAC, finish plumbing, trim/interior finishes, painting, insulation, flooring, and finish electrical work. Along with these tasks students will learn to safely operate a vast array of equipment which is used industry wide to perform these tasks.



GARDNER · SOUTH WILMINGTON HIGH
PANTHERS

ENGINEERING TECHNOLOGY I GRADES: 11 or 12

1 YEAR

***Prerequisite**: None*

Engineering Technology is a diversified STEM program designed to give students real world problem solving skills through a medium of modern applied sciences. Engineering Technology is structured to provide insight and exposure to the basics of each major S.T.E.M. discipline. Each student will: program, make three-dimensional models, explore computer numerical controls, learn kinematics, design robots, and break down the division of labor that encompasses an operational STEM team. Students are given projects to construct, and will master the process of taking an idea, and making it tangible. Engineering Technology is in accordance with the curriculum of Illinois State University, and based on the research from the combined efforts of the National Science Foundation and NASA. This course provides students the experience and foresight to generate knowledge for their future careers in the STEM fields.

ENGINEERING TECHNOLOGY II GRADE: 12

1 YEAR

***Prerequisite**: Successful completion of Engineering I*

The second year of this STEM class will foster students' abilities by diving deep into the discipline they chose to pursue. We create real world projects based around their area of study, to prepare for college, or enter into the workforce after graduation. Through teaming with local businesses and corporations, we have an understanding of what employers are looking for, and advancing student's experiences, provides students a step up on the competition. Putting students in leadership opportunities to oversee projects and gain the knowledge it takes to get a jump start on their career allows them to see what a day in the life of a professional looks like. Engineering Technology 1 has made students well rounded in all areas of STEM, and guided students to research their options and find what their perfect fit is. Now, in their second year, they will hyper-focus on the decision they have made, and specialize in their area of study. Employers and colleges are looking for students making the most of what they have, factoring eligibility heavily on experience and leadership. We gear ourselves to operate accordingly within those guidelines. We dedicate time towards college admission/ career application processes, so students will know what their next steps will be prior to graduating. Everyday students will be doing college level work, as well as taking on tasks and projects as though they are showing up to work. Preparation for a career out of high school is our goal, so we strive to arm our students with all the experience and knowledge they need to be successful.



GARDNER · SOUTH WILMINGTON HIGH
PANTHERS

JJC ACE: ARCHITECTURE, CONSTRUCTION MANAGEMENT, ENGINEERING
GRADE: 12
1 YEAR
Prerequisite: None

The JJC ACE program is designed to provide the student with a broad overview of the skills and knowledge necessary to pursue an exciting career in the architecture/construction/engineering field. Through relevant and challenging college courses, the student will receive a solid foundation in the introductory and fundamental coursework in the professional tracks of the building industry. The ACE program has been designed for those students interested in the built environment and are considering career pathways in the field of architecture, engineering or construction management. With 12 hours of college credit to be earned, the student will explore each discipline and can apply those credits to the track best suited to their interest for further study.

Each discipline, Architecture, Construction Management and Engineering, has an introductory course intended to provide the student an insight into the different career alternatives and the educational and professional path available in that discipline. Beyond career exploration, each introductory class also covers the terminology, processes, skills, and industry specific content to give the student a full snapshot of not just that discipline, but how all disciplines in the building industry work together to build our communities. In addition, the ACE program includes a course in Blueprint reading designed to provide the proper knowledge and skills to be able to read a set of blueprints; a fundamental, required skill for all disciplines and individuals in the building industry. The students will also receive their OSHA 10 Construction Safety card, an industry credential, by successfully completing a 1 ½ day weekend training course in the program.

Also included is an introductory course in Sustainability. While the content covers sustainability in the AEC industry, it also introduces the basic fundamentals in sustainability as a societal, global, multi-discipline approach. The course serves as a general education credit in the pursuit of many associate and advanced degrees.

Students will need their own transportation to and from class. They will be dual enrolled earning high school and college credit for ARCH 100, CM 100, EGR 105/AEC 299, AEC 106, OPS 111 and SET 100, a total of 12 credits (see page 2 for course descriptions).

Students will need their own transportation to and from Joliet Junior College. They will be dual enrolled earning high school and college credit for the above listed courses.

Guidance Notes: Solid math skills needed with record of good attendance and behavior.

Highlights of the Program:

- Students will attend courses at JJC Main campus, M-F, 12:30p – 2:30p (exact times TBD)
- Schedule to follow JJC calendar including holidays, spring break, etc.
- Attendance requirements to follow JJC course policies: Due to the progression of topical content and hands-on labs, attendance is mandatory in all course sessions unless excused by the instructor.
- Class size limited to 15 students
- Textbooks and supplies provided by JJC
- JJC Program advising available for academic and career planning



GARDNER · SOUTH WILMINGTON HIGH
PANTHERS

JJC AET: APPLIED ENGINEERING TECHNOLOGY: 12
1 YEAR

Prerequisite: *None*

Students in the AET program which is located at **Joliet Junior College Main Campus** will have an opportunity to focus on the application and implementation of design theory. During the first semester, students will participate in both classroom and hands-on shop experience. In the shop, emphasis is placed on exercises and projects that embody the basic processes and operations in using hand tools, layout tools and machine tools such as vertical saw, drill presses, engine lathes, vertical milling machines, and surface grinders. In the classroom, emphasis is placed on the theory related information that is essential to set up and operate machine tools and to perform basic processes and operations in the machine shop. Students will earn 4 credits for MFG101 (Precision Machine Technology I).

During the second semester, students will acquire knowledge and skills in the use of numerical control and computer numerical control milling and turning machines. The course will also include NC and CNC general concepts and programming procedures. Students will have "hands-on" experience in programming, setting-up, and operating an NC milling and drilling machine and a CNC milling and drilling machine. Students will become familiar with Windows NT and the use of the computer program "Notepad." In addition, students will work to develop a high degree of skill in visualizing and interpreting prints. The class work includes the principles of orthographic projection, dimensions and tolerances, the application and interpretation of machining, and welding symbols and specifications. This course also covers the reading of numerical control prints, sheet metal prints, machining prints, welding prints, and instrumentation and control diagrams. Students earn 7 credits for MFG 111 and 115 (Numerical Controls and Blueprint Reading for **Manufacturing and Welding)**.



GARDNER · SOUTH WILMINGTON HIGH
PANTHERS

JJC AIM: ADVANCED INTEGRATED MAINTENANCE GRADE: 12
1 YEAR
Prerequisite: *None*

This senior only program is offered in partnership with Joliet Junior College and will be held at Main Campus on Houbolt Rd, Joliet, IL. Students will participate in four separate college courses building skills and awareness in industrial maintenance, industrial fluid power, basic wiring/circuit design and electrical controls for heating, ventilation, and air conditioning systems. The AIM program will provide students with the core education and technical hands-on skills to further pursue careers in the advanced manufacturing sector. The demand for highly skilled technicians continues to grow everyday right here in our district.

In the Industrial Maintenance Technology courses, students will learn about OSHA safety programs, maintenance physics, hand and power tools, precision measuring, technical diagrams and assembly prints, fastening devices, lubrication, basic pump operation, and basic pipefitting procedures. Building on that knowledge, study will continue on the principles of hydraulics and pneumatics as applied to the basic theory of fluids and typical industrial circuits. Students will build fluid power circuits as applied to industrial applications.

In addition, students will learn the fundamentals of electrical and electronic circuits, including the calculation and measurement of voltage, current, resistance and power with emphasis placed on safe meter usage, print reading and exposure to a variety of electrical technologies currently used in industry including: introductory residential wiring, operation of AC motors, industrial solid-state devices, variable frequency drives, industrial controls, and single-phase/three-phase power distribution. Also included are the skills necessary to safely use electronic test equipment on low- and high-voltage components, and the details of installation, service, troubleshooting, and repairs on various types of electrical controls, circuits and components in the HVAC industry.

Students will need their own transportation to and from class. They will be dual enrolled earning high school and college credit for IMT101, IMT121, HVAC120, and EEAS101, a total of 13 credits.

Guidance Notes: Solid math skills needed with record of good attendance and behavior.

Highlights of the Program:

- Students will attend courses at JJC Main campus, M-F, 7:30a – 9:30a
- Schedule to follow JJC calendar including holidays, spring break, etc. with any minor adjustments as necessary
- Attendance requirements to follow JJC course policies: Due to the progression of topical content and hands-on labs, attendance is mandatory in all course sessions unless excused by the instructor.
- Class size limited to 9-12 students
- Safety and lab equipment provided by JJC
- Participation and invitation to JJC career events and industry visits highlighting advanced manufacturing companies
- Participation in career skills ‘boot camps ‘ including resume, interview skills, etc.
- Potential for summer internships



GARDNER - SOUTH WILMINGTON HIGH
PANTHERS

WELDING AND FABRICATION I GRADES: 11 - 12
1 YEAR
Prerequisite: *None*
This class trains students for a career in Metal Fabrication. Whether your goal is simply to fabricate ideas in your garage, build your own chopper, fabricate a race car or go on to a career in construction such as an ironworker, pipe fitter, heavy equipment operator, sheet metal worker, and auto body repair. This class will teach all types of welding and cutting used readily today such as Plasma Arc Cutting, Oxy Fuel Cutting, Stick Welding, Tig Welding, and Mig Welding. You will also possess the knowledge to set up the latest in cutting edge welding equipment for various welding processes and applications.

WELDING AND FABRICATION II GRADE: 12
1 YEAR
Prerequisite: *Welding and Fabrication I, with a C grade or better.*
This class will take your welding ability to the next level. Depending on your future goals, we will tailor your second year to give you the edge needed in today's workforce or college. Second year welding students find themselves doing more fabrication from blue-prints and shop drawings. Most two-year dedicated well applied students come straight out of GAVC and go right into welding jobs in local Industry.

WILCO HEAVY EQUIPMENT TECHNOLOGY GRADE: 12
1 YEAR
***Prerequisite*:** *Acceptance into program*
This program is designed to train students for careers as heavy equipment mechanics. Heavy equipment includes equipment such as cranes, bulldozers, front-end loaders, rollers, backhoes, and hoists. Emphasis will be on the fundamentals as it relates to diesel engines and fuel systems used in heavy equipment. This program will introduce students to units of measurement, electron theory, wiring diagrams, schematics and symbols, basic principles of hydraulics, basic engine components, intake and exhaust systems, basic principles of hydraulics, basic engine components, intake and exhaust systems, introduction of welding and power train functions. Students must have steel toed boots and purchase program shirts at an estimated cost of $43.50.

College credits are earned during the program through Joliet Junior College. Disclaimer – Dual credit is subject to change based upon revisions made from Joliet Junior College. GAVC has no control over this entity.

This off-campus class is available through an application process only. Students will be drug-tested and must meet minimum requirements. The class is located at ASIP-Local 150 in Wilmington. Students must provide their own transportation for this program.



GARDNER - SOUTH WILMINGTON HIGH
PANTHERS

HUMAN AND PUBLIC SERVICES

COSMETOLOGY GRADES: 11 - 12
2 YEARS
Prerequisite: *Basic Math, Science, Reading and Anatomy*
Students will receive training at the Franklin Cosmetology Institute, located in downtown Morris. The goal of the program is to adequately prepare students through training, theory, and practical in order to successfully pass the Illinois state requirements to become a professional, licensed cosmetologist. Students participate in both classroom and practical experiences. Training in this field provides for career opportunities as a licensed Cosmetologist. Disciplines taught include haircutting, hair coloring, styling, texture services, skin care, waxing, manicuring, and nail enhancements. This Illinois State license would allow the student to specialize in one, or all subject matter taught. To become a professional Cosmetologist, the State of Illinois requires 1500 clock hours of training by a licensed Cosmetology school, and a passing grade of 75% on the State Board licensing exam. Visit franklincosmetology.net for enrollment dates, or email us at franklininstitute100@gmail.com. for more information.

CRIMINAL JUSTICE I GRADES: 11 - 12 **1 YEAR**
Prerequisite: *None*
Students will be educated in a wide range of criminal justice topics such as law enforcement, corrections, parole, probation, court system, security management, current legal issues, terrorism, as well as other related areas of the criminal justice system. The purpose of this course is to provide students with basic information to understand the criminal justice system and/or to pursue a career in the criminal justice field, both public or private. This program is a blend between traditional teaching methods and strategies, as well as hands-on/skill related activities. Local criminal justice professionals give specialized presentations and field trips are taken to local criminal justice facilities.

CRIMINAL JUSTICE II GRADE: 12
1 YEAR
Prerequisite: *Successful completion of Criminal Justice I with a "C" or better.*
Criminal Justice 2 will continue to reinforce and enhance the knowledge and skills learned in Criminal Justice 1. In addition, Criminal Law, White Collar Crime, and Drug Use and Abuse in the Criminal Justice System will be studied. Students also may be afforded the opportunity to participate in a job shadow program with a local law enforcement/criminal justice agency. This program is a blend between traditional teaching methods and strategies, as well as hands-on/skill related activities. Local criminal justice professionals give specialized presentations and field trips are taken to local criminal justice facilities.



GARDNER - SOUTH WILMINGTON HIGH
PANTHERS

CULINARY ARTS I GRADES: 11 - 12
1 YEAR

Prerequisite: *None*

The Culinary Arts program will provide students an opportunity to build interest and skill in essential and advanced culinary theory and techniques. Students will gain exposure and training in both lecture and lab experiences necessary to advance towards future study and practice in the culinary profession. Areas of study may include: Foodservice History, Sanitation & Safety; Equipment Usage; Basic & Technological Aspects in Foodservice Preparation; Nutrition; Classical Cooking; Ordering, Purchasing, Receiving & Inventory Controls; Customer Relations; Vocational Ethics.

CULINARY ARTS II GRADES: 11 - 12 1 YEAR

Prerequisite: *Culinary Arts I*

The Culinary Arts program will provide students the opportunity to expand their knowledge and skill base gained in Culinary Arts I. Students will develop advanced cooking skill and technique and increase their understanding of critical culinary and business theory. Areas of study may include: Foodservice History, Sanitation & Safety; Equipment Usage; Advanced Aspects in Food service Preparation; Nutrition; Classical Cooking; Ordering, Purchasing, Receiving & Inventory Controls; Customer Relations; Vocational Ethics.

FIRE SCIENCE I GRADES: 11 - 12 1 YEAR

Prerequisite*: None*

The Fire Science I course is designed to provide a basic understanding of the fire protection career field and to prepare the fire science student for entry into the Fire Science II program. It is, further, intended to prepare the student for entry into a State approved firefighter certification program and/or a college or university Fire Technology degree program.

The curriculum is based on the standards established by the Illinois State Board of Education, the Illinois State Fire Marshal's office, the National Fire Protection Association, the National Fire Academy, the Department of Transportation, the Department of Public Health, and the Fire and Emergency Services National Professional Development Model.

Students will learn about a variety of career choices available within the field of fire protection, and the knowledge, skills and abilities which are required of each.

The course of study will include the following domains: Basic First-Aid and CPR; Orientation and Organization (JJC Dual Credit course FSCI 101, Principles of Emergency Services, 3 credits); Fire Hose; Fire Streams; Firefighter Safety and Health; Firefighter Personal Protective Equipment; Water Supply; Fire Department Communications; Fire Behavior; Building Construction (JJC Dual Credit course FSCI 103, Building Construction for Fire Protection, 3 credits); Portable Fire Extinguishers; Ground Ladders; Fire Control; Hazardous Materials Awareness; the Incident Command System; Work Ethic; and Human Relations.

College credits are earned during the program through Joliet Junior College as noted.



GARDNER - SOUTH WILMINGTON HIGH
PANTHERS

FIRE SCIENCE II GRADE 12
1 YEAR

Prerequisite: *Fire Science I, with a C grade or better*

The Fire Science II course is designed to provide a solid foundation of knowledge and skills to prepare the fire science student for entry into a State approved firefighter certification program and/or a college or university Fire Technology degree program. It is, further, intended to prepare the student for the annual Illinois Skills USA fire fighter competition. The curriculum is based on the standards established by the Illinois State Board of Education, the Illinois State Fire Marshal's office, the National Fire Protection Association, the National Fire Academy, the Department of Transportation, the Department of Public Health, and the Fire and Emergency Services National Professional Development Model. Students will expand upon the knowledge and skills acquired during the Fire Science I program and gain technical proficiency through hands-on application and repetitive drills.

This advanced course of study will include the following domains: Ropes & Knots; Fire Control; Loss Control; Ventilation; Protecting Fire Scene Evidence; Fire Prevention & Public Education (JJC Dual Credit course FSCI 102, Fire Prevention, 3 credits); Rescue & Extrication; Forcible Entry; Fire Detection, Alarm, and Suppression Systems; Basic Prehospital Emergency Medical Care (JJC Dual Credit course EMS 101, First Responder, 4 credits); Hazardous Materials Operations; Firefighter Safety & Health; Incident Command; and Employability Skills. This course emphasizes skill development in the operation of firefighting tools and equipment in order to develop psychomotor skills (Job Performance Requirements) and physical strength and endurance.

The course will include first-hand experience with the typical employment selection process. Students will take a series of mock entry-level skills assessment tests, written exams, and oral interviews. Students will be assessed on their knowledge, skill and ability, appearance and dress, attitude and behavior, and overall comfort level with the typical assessment instruments utilized by the industry during the firefighter selection process.

College credits are earned during the program through Joliet Junior College as noted.

FOUNDATIONS OF TEACHING GRADES: 11 - 12
1 YEAR

Prerequisite: *None*

First year students will receive an introduction to child development principles, developmentally appropriate learning environments, curriculum development, health, safety, and nutrition in regards to early childhood education. Students are also exposed to special education topics such as: IEPs, disabilities in the classroom, RTI, and inclusion. While enrolled in Early Childhood, the students will begin the process of learning the importance of lesson plans and how to create lesson plans for the different curriculum areas found in the early childhood setting. The students will be offered an off-campus clinical rotation in their home-school community after the first 7-8 weeks. This clinical experience*, in conjunction with our class time, will be three days a week and provide hands-on training during the course of the school year. At the conclusion of the year, the students that meet the requirements will be awarded a Level 1 certification through INCCRRA/Illinois Gateways to Opportunity

*Students much have a current physical, 2-part TB skin test, and reliable transportation



GARDNER · SOUTH WILMINGTON HIGH
PANTHERS

ADVANCED TEACHING METHODS GRADE: 12

1 YEAR

Prerequisite: Successful completion of Foundations of Teaching with a C grade or better.

The Early Childhood II program is available to those returning seniors, who are in good standing, who wish to continue exploring the components of early childhood education. Students will gain knowledge into different theories, theorists, and the philosophies that are vital to early childhood. Additional topics that are present in Early Childhood II include: child guidance and observations, parent communication, diversity in the classroom, different assessment tools available, and creating their own mission statement. Lesson plan development is continued in the second year with the addition of state standards, common-core, and edTPA. The students gain insight into different career options such as: occupational therapist, speech pathologist, special education teacher, and early childhood education teacher. The importance of attendance, dress-code, positive attitude, and ethics are still stressed as the students complete off-campus clinicals throughout the year. Students* are given the ability to participate in an off-campus experience in the student's home community. At the conclusion of the second year, the students will have composed an on-line professional portfolio.

*Students must have current physical and reliable transportation.