Consortium Classes 2020-21

The Southwest School to Work Consortium, the school districts of Franklin, Greendale, Greenfield St. Francis and Whitnall, have worked together to provide the opportunity for students to take a class(es) that may not be offered at their high school but is offered at a neighboring school.

Thank you for your interest in a Consortium Shared Class. You may be taking the class to explore a career interest or to gain more experience in the field you’ve chosen to pursue after high school. To make your experience with a shared class a positive experience, guidelines have been established by the consortium. These are available from your counselor.

The following is a list of courses that may be available. Final seat availability will be determined in late spring. Your counselor will contact you regarding specific time schedules as it becomes available. There is no guarantee that the courses will be available and/or that they will work with required courses at GHS.

**MATC Offerings:**

Introduction to Welding - 1st Semester
1 Credit/semester
Prerequisites: approved Youth Options request
Grades: 11-12
Time: Typically 2:15-4:00 PM Monday through Thursday at MATC South Campus

Introduction to Welding is offered as a Youth Options class at the MATC South Campus. Applications for Youth Options which are available from the school counselor must be completed by March 1 for 1st semester and October 1st for second semester. Students enrolling in this course will participate in the fundamentals of arc and oxyfuel welding and then advance their skills in gas tungsten and wire welding. Students will be dismissed from their high school classes at approximately 1:45pm. Students are responsible for purchasing safety glasses/jacket and wearing appropriate footwear. An MATC parking pass will need to be purchased. A second semester course consisting of advanced welding techniques may be offered through Youth Options and MATC.

Welding 2
Credits depend on the class(es) selected
Prerequisites: approved Youth Options request & previous welding classes
Grades: 11-12
Time: Per the MATC Schedule

**Franklin High School Offerings**

Franklin Foodie: Culinary & Restaurant Management - Course #HF1005Y *CAPSTONE* (Formerly titled ProStart)
Grades: 11, 12
1 Credit
Prerequisite: **Culinary:** At least two of the following courses: Intro to Foods, Exploring Foods, or Foods Around the World; **Restaurant Management:** Business Essentials and at least one of the following courses: Intro to Foods, Exploring Foods, or Foods Around the World. OR teacher approval.

**Length:** Year

**Type:** Weighted Course

Get real world experience in the fast-paced and exciting culinary industry. In Franklin Foodie students partner with professional chefs and restaurateurs to gain career-relevant experiences. In this Capstone class students will master culinary skills while preparing appetizers, main dishes, side dishes and desserts. Learning will focus on hands-on, team-orientated

**Child Development & Healthcare – Course #HF2000S**

**Credit:** .5

**Prerequisite:** Child Development I or PLTW Principles of Biomed Science

**Grade:** 10, 11, 12

**Length:** Semester

**Type:** Standard

Each and every student can make a difference in the lives of children who are experiencing illness, have disabilities, or who have experienced traumatic injuries. In this course students will learn about the physical and health issues of children, explore the decisions that families make regarding their child’s health and well-being, and develop strategies for working with children and their families. In addition, students will study the importance of prevention regarding a child’s health and safety, learn about signs/symptoms to look for in children and corresponding health interventions, and learn about child-related healthcare careers.

**Interior Design - Course #HF3006S**

.5 credit

**Prerequisites:** None

**Grades:** 11, 12

**Length:** Semester

**Type:** Transcribed Credit, Weighted Course

Discover how to transform a boring room into a dynamic living environment. In this course you'll get an overview of the profession and career opportunities as you explore the interior design process, including space planning, furniture arrangements, material and sample selection, and the development of presentation boards. Design concepts with application of floor-planning techniques; color theory for interiors; human factors; and furniture, textiles, and finish selections are introduced. A gradual increase in complexity of design problems reinforces the design process. Class format includes illustrated lectures, discussions, and individual or small group projects and assignments.

**REACH: Revitalizing Education & Child Health - Course #HF2004Y *CAPSTONE* (Formerly titled Child Development III)**

1 Credit

**Prerequisite:** Education: Child Development II; **Pediatric Medicine:** Child Development I or PLTW Principles of BioMed Sci. OR teacher approval.

**Grade:** 12

**Length:** Year

**Type:** Transcribed Credit, Weighted Course

Every child has unique talents and gifts, and incredible human potential to become the best she or he can be. In this hands-on Capstone class, students can choose to pursue an educator focus or healthcare focus.
Education Focus: Students will expand their knowledge and refine the skills that are important when teaching children. Students will collaborate with a mentor and other professionals outside the FACS classroom to gain insight into the profession, to observe, work and play with children. Students will plan activities and teach lessons to children, and will learn how to adapt instruction for children with differing needs. Students will learn how teachers and parents can provide the opportunities and environment needed for children to fulfill their potential.

Healthcare/Pediatric Medicine Focus: Students will expand their knowledge and refine the skills that are important in working with young children in the healthcare setting. Students will collaborate with a mentor and other healthcare professionals outside the FACS classroom to gain insight into the profession, to observe and work with children within a medical field.

Metal Manufacturing - Course #HT3003Y

2 credits
Prerequisite: C or better in Metals 2, two years of engineering related courses, or teacher approval.
Grades: 11, 12
Length: Year
Type: Standard
This course is designed to be a collaboration between engineering students and metals students, who work together to design, prototype, and manufacture products and processes. In this course students will dig into how to mass produce usable things with little to no differences between them. This course is ideal for students who are looking to experience advanced manufacturing and design techniques.

Greendale High School Offerings

Culinary Arts 1  0.5 Credit
Prerequisite: C or better in a Foods class
Grade 11, 12

MATC transcripted credit granted by MATC with a grade of B- or higher.
Culinary Arts is a course designed for students interested in learning advanced cooking techniques and acquiring more in depth knowledge than what is presented in the Introduction to Foods course. Units include: Foodservice Equipment, Knives & Smallwares, Culinary Math, Salads & Garnishing, Sandwiches & Pizza, Stocks, Sauces, and Soups. Cooking labs will be determined by the topics in each unit. Course Fee: $20.
- To see sample recipes from this class, search for “GreendaleCulinary” on Instagram.
- As part of this course, students will have the opportunity to earn their ServSafe Food Safety Manager’s Certification.
- Juniors and seniors in this course are also eligible for the GHS Culinary Competition Team.

Culinary Arts 2  0.5 Credit
Prerequisite: Successful completion of Year 1 and instructor consent
Grade 11, 12
Continuation of Culinary Arts 1. Units include: Cooking Methods, Plating, Eggs & Dairy, Breakfast Cookery, Vegetables, Potatoes & Grains, Meat, Poultry, Seafood, and Career Opportunities. Cooking labs will be determined by the topics in each unit.
Course Fee: $20.

MATC transcripted credit granted by MATC with a grade of B- or higher.
Baking & Pastry 0.5 Credit
Prerequisite: Introduction to Foods
Grades 11, 12

This course is a must for students that love desserts! Advanced skills and techniques in pastry will be introduced. Topics include: breads, cakes, pies, fruits, cookies, brownies, tortes, custards, frozen desserts, and chocolate decorative work. Cooking labs will be determined by the topics in each unit. Course Fee: $20.

Juniors and seniors in this course are eligible for the GHS Culinary Competition Team.

MATC transcripted credit granted by MATC with a grade of B- or higher.

Spanish 6 (CAPP)
1 Credit
Prerequisite: Spanish 5 AP/CAPP (B- or better)
Grade: 12
Time:
This course is designed for students who want to continue their Spanish studies. This course will have an option to earn credit from UW-Oshkosh through CAPP. The course is designed to build students’ language proficiency in the communicative modes of interpretive, interpersonal, and presentational by building reading, writing, speaking and listening skills. In addition, students will build their cultural understanding and awareness of Spanish speaking cultures. This class will meet five days per week. Interested students must have taken Spanish 5 AP/CAPP with a B- or better.

PLTW - Biomedical Innovations
1 GHS Credit
Prerequisite: Completion of PBS and HBS, completion of or current enrollment in MI
Grade Levels: 10, 11, 12
Time:
Students design innovative solutions for the health challenges of the 21st century. They work through progressively challenging open-ended problems, addressing topics such as clinical medicine physiology, biomedical engineering, and public health. Students have the opportunity to work on an independent project with a mentor or advisor from a university, hospital, research institution, or the biomedical industry. Throughout the course, students are expected to present their work to an audience of STEM professionals.

AP/PLTW Computer Science Principles (formerly named “PLTW Computer Science Software Engineering”)
1.0 Credit
Prerequisite: PLTW DE or PLTW ICS with a C- or better
Grade: 10, 11, 12
Length: Year
Credit: 1.0 credit
Time:
Using Python® as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. While this course can be a student’s
first in computer science, students without prior computing experience are encouraged to start with
Introduction to Computer Science. Computer Science Principles helps students develop programming expertise
and explore the workings of the Internet. Projects and problems include app development, visualization of
data, cybersecurity, and simulation. PLTW is recognized by the College Board as an endorsed provider of
curriculum and professional development for AP® Computer Science Principles (AP CSP). This endorsement
affirms that all components of PLTW CSP’s offerings are aligned to the AP Curriculum Framework standards
and the AP CSP assessment.

**Greenfield High School Offerings**

**Assisted Child Care**

.5 Credit

Prerequisites: “C” or better in a Parenting/Child Care Class

Grade 11-12

Time: around lunch

The focus of this course is to study child development, learning experiences for young children, guidance
techniques, limits and routines for children, special needs children, child care centers, and health and safety
issues. Students will also participate in a preschool program, where they will plan lessons and guide children.
After completing this course and meeting the DPI and the Dept. of Health and Family Services requirements,
students may earn their Assisted Child Care Teacher Certification from the State of Wisconsin. This qualifies
students (age 17 or older), to be employed as an assistant teacher at a licensed child care facility. Students may
also receive advanced standing at certain Wisconsin Universities and colleges including MATC.

**Air Force Junior Reserve Officer Training Corps – ROTC**

Aerospace Science – Leadership – Wellness/Physical Training

Prerequisites: Conference with Parent, Student and Program Director for appropriate placement

1 Credit each year

Grade 9-10-11-12

Time: Depends on the Master Schedule

This elective course has 4 different levels that each combine the United States Air Force Core Values of
Integrity, Service and Excellence with Aerospace Science, Leadership Education, and Wellness/Physical
Training to build confidence, teamwork, problem-solving abilities, leadership skills and self-discipline. The
Cadets will learn about and live by an Honor Code throughout their high school career. The Mission of this
program is to develop citizens of character dedicated to serving their nation and community. There is no
requirement to join the military for participating in the program. Cadets will find, plan and organize and
participate in numerous Service Events in the SE Wisconsin area. Cadets will wear the Air Force uniform
once each week and earn ribbons and medals to wear on it. Cadets will learn traditional military drill
maneuvers to promote teamwork, focus, attention to detail and communication. Cadets march in local parades
and enjoy several evening functions including three Awards and Promotion Ceremonies and the Military Ball.
Course work prepares cadets for military and civilian careers. Cadets earn certificates after a minimum of two
years in AFJROTC which gives them significant benefits if they join the military after graduation. Cadets
pursuing civilian careers use their AFJROTC experience as strong support for college admission, scholarships
and employment applications. The instructors will assist parents/guardians throughout their cadet’s high
school career by mentoring and guiding these students.
Cadets at all levels will participate in the Presidential Physical Fitness Program and be evaluated three times per year. The goal is for improvement as a healthy lifestyle is a habit and will improve a person’s quality of life.

**Construction 1**
0.5 Credit
Prerequisite: none
Grade 11-12
Time: Depends on the Master Schedule
This course will provide the student with the opportunity to demonstrate the key elements associated with building construction. Site development, building planning, masonry, and framing are the key elements to be covered. Activities will stress safety on the job, working safely with machines, a positive work attitude, real life problem solving and application of basic academic skills. **Construction 2** may also be offered after the completion of Construction 1.

**Construction 2**
1 Credit
Prerequisites: Construction 1
Grade 12
Time: Depends on Master Schedule (7th hour/1:51-2:41pm)
This course will be a continuation of Construction 1. Students will apply concepts from Construction 1 while learning more advanced material.

**German 1**
1 Credit
Prerequisite: none
Grade 9-12
Time:
This first year language course is an introduction to the German language and culture. The main emphasis will be on basic communication skills: listening, speaking, reading, and writing. Topics covered include introductions, family, free time activities, school, sports, the home, and food. Cultural notes are included with each theme.

**PLTW- Civil Engineering and Architecture (CEA)**
1 Credit
Prerequisite: none
Grade 11-12
Time: Depends on the Master Schedule
Students learn about various aspects of civil engineering and architecture and apply their knowledge to the design and development of residential and commercial properties and structures. In addition, students use 3D design software to design and document solutions for major course projects. Students communicate and present solutions to their peers and members of a professional community of engineers and architects.
PLTW MEDICAL INTERVENTIONS (MI)

1 Credit

Prerequisites- Successful completion of Biology, Honors Biology or Principles of Biomedical Science
Grades 11 & 12

Medical Interventions allows students to investigate the variety of interventions involved in the prevention, diagnosis, and treatment of disease as they follow the lives of a fictitious family. A “How-To” manual for maintaining overall health and homeostasis in the body, the course will explore how to prevent and fight infection, how to screen and evaluate the code in our DNA, how to prevent, diagnose, and treat cancer, and how to prevail when the organs of the body begin to fail. Through these scenarios students will be exposed to the wide range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics. Each family case scenario will introduce multiple types of interventions, reinforce concepts learned in the previous two courses, and present new content. Interventions may range from simple diagnostic tests to treatment of complex diseases and disorders. These interventions will be showcased across the generations of the family and will provide a look at the past, present, and future of biomedical science. Lifestyle choices and preventive measures are emphasized throughout the course as well as the important role that scientific thinking and engineering design play in the development of interventions of the future.

Theatre

.5 Credit

Prerequisites: None
(This is an elective course)
Grades: 11 & 12
Time: Depends on Master Schedule

The foci of this half credit course include introducing students to the theatre, script analysis, and basic acting. We will explore these areas through hands-on experiences such as working in the high school theatre, reading and discussing selected plays, various acting exercises such as pantomime and improvisation, and viewing the work of others. Students will engage in a multitude of class activities to develop knowledge and appreciation of the theatrical arts. No previous acting experience is necessary, but a positive attitude is required. A public performance may be included.

TECHNICAL THEATER 1

0.5 Credit

Prerequisites: None
(This is an elective course)
Grades: 11 & 12
Time: Depends on Master Schedule

Technical Theater 1 is a course which provides the opportunity to learn and apply the crafts and technologies of the “backstage” world of the theater. We will learn to interpret and execute a theatrical designer's plans, create our own designs, and see those designs and plans come to life. Through hands-on learning, students will acquire skills and knowledge in set design and construction, props, and management. Students will submit at least one of their original designs to the Drama Department for consideration for the spring musical. Attendance at a public performance may be required.
Music Theory
1 Credit
Prerequisites: None
(This is an elective course)
Grades: 10, 11 & 12
Time: Depends on Master Schedule
In this course students will develop their music literacy and composition skills through individual, small group and whole group instruction. The purpose of this course is to enhance students’ understanding of music theory in order to develop music composition and arranging skills. Topics will include: choral analysis, harmonic and melodic structure, composition techniques and ear training. This class is designed for sophomore, junior, and senior students who love music, as well as those who seek to enrich their knowledge of music fundamentals.

Both Greendale and Greenfield High Schools

PLTW – Project Lead the Way is a national engineering and biomedical science initiative. Milwaukee School of Engineering is Wisconsin’s PLTW University affiliate which coordinates statewide efforts. Students may be eligible for college credit upon successful completion of national testing.

PLTW - Principles of Engineering (POE)
1 Credit
Prerequisites: Biology, Algebra 1, and Geometry
Grade 9-12
Time: Depends on Master Schedule
Greenfield—
Greendale—
This introductory course explores the wide variety of careers in engineering and technology and covers various technology systems and manufacturing processes. Using activities, projects, and problems, students learn firsthand how engineers and technicians use math, science, and technology in an engineering problem-solving process to benefit people. The course also addresses concerns about social and political consequences of technological change. Students will be working in groups and teams for problem-solving projects and hands-on learning.

Emphasis is placed on analyzing potential solutions and communicating ideas to others in groups or teams.

PLTW-Introduction to Engineering and Design (IED)
1 Credit
Prerequisites: Biology, Algebra 1, and Geometry
Grade 9-12
Time: Depends on the Master Schedule
Greenfield—
Greendale—
Students use a problem-solving model to improve existing products and invent new ones. They learn how to apply this model to solve problems in and out of the classroom. Using sophisticated three-dimensional modeling software, students communicate the details of the products.

**PLTW-Principles of the Biomedical Sciences (PBS)**

*1 Credit*

**Prerequisite:** Completion of/concurrent enrollment in a Physical Science or above level of science

**Grade:** 9, 10, 11, 12

**Time:** depends on the Master Schedule

Students investigate the human body systems and various health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. They determine the factors that led to the death of a fictional person, and investigate lifestyle choices and medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, medicine, research processes and bioinformatics. Key biological concepts including homeostasis, metabolism, inheritance of traits, and defense against disease are embedded in the curriculum. Engineering principles including the design process, feedback loops, and the relationship of structure to function are also incorporated. This course is designed to provide an overview of all the courses in the Biomedical Sciences Program.

**St. Francis High School Offerings**

**CISCO 1 Networking Academy I**

*1 Credit*

**Prerequisites:** Algebra 1

**Grade 10-12**

**Time:** Depends on Master Schedule  1st hr. (7:40am) in 17-18

This is the 1st year of a 2-year Cisco course. The first year looks at networking for home and small businesses and working at a small-to-medium business or ISP. The curriculum includes PC installation, Internet connectivity, wireless connectivity, physical media (cabling), networking devices, IP addressing, LAN topologies, electrical issues, setting up personal routers, setting up servers, network monitoring and basic troubleshooting. Students will create their own Ethernet cables and complete other lab work in simulations on the computer with actual Cisco equipment. May earn up to 3 MATC credits. *For more information: [http://www.cisco.com/web/learning/netgend/get_involved/BecomeAStudent.html](http://www.cisco.com/web/learning/netgend/get_involved/BecomeAStudent.html)*

**CISCO 2 Networking Academy II**

*1 Credit*

**Prerequisites:** Cisco 1

**Grade 11-12**

**Time:** Depends on Master Schedule  1st hr. (7:40am) in 17-18

This is the 2nd year of the 2-year Cisco course. This year, we look at introducing routing and switching in the enterprise and designing and supporting computer networks. The curriculum includes switches and switched networks, IP telephone requirements, security, routing protocols, virtual LANs, designing networks and performing project management tasks. Students will complete lab work in simulations on the computer and
with actual Cisco equipment. At the end of the 2-year course, students are eligible to take the Cisco CCNA exam and earn certification as a Cisco network administrator.

**Whitnall High School Offerings**

**INTRO TO DESIGN ENGINEERING**
Semester .5 credit  
Prerequisite: None  
Grades 9-12
This course is open to all students who would like to gain insight into the field of high technology. The course will cover technology dealing with building trades, manufacturing, and engineering. Topics will include construction designs, materials and methods used in the building industry, the principles of creating, packaging, and selling products, working with materials and methods used in industry. Intertwined within the course will be engineering principles such as simple machines, structural analysis, and reverse engineering through technical drawing and 3D modeling. This is a project-based, hands–on course.

**MANUFACTURING MATERIALS AND PROCESSES 1**
Semester .5 credit  
Prerequisite: None  
Grades 9-12
This course is an introduction to manufacturing processes and manufacturing systems including assembly, machining, injection molding, casting, thermoforming, and more. Emphasis on the physics and randomness and how they influence quality, rate, cost, and flexibility. Attention to the relationship between the process and the system, and the process and part design. Project (in small groups) requires fabrication (and some design) of a product using several different processes (as listed above).

**MANUFACTURING MATERIALS AND PROCESSES 2**
Semester .5 credit  
Prerequisite: Manufacturing Materials and Processes 1  
Grades 9-12
This course is a continuation of manufacturing processes and manufacturing systems. Advanced projects utilizing 3D modeling, assembly, machining, casting, and more. Emphasis on precision and tolerances through mass production. Projects requires analysis of the production process to take raw material to finished replicated products.

**ENGINEERING DRAWING 1**
Semester .5 credit  
Prerequisite: None  
Grades 9-12
Learn to apply the processes that are used in engineering design. Students will be introduced to the philosophy of technical problem solving. Students will study and practice brainstorming, sketching, geometric solids, measurement, materials CAD, dimensioning, and isometric drawings. Communication skills, which include sketching, technical drawing, report writing, and presentations will be addressed. Students will work in teams to solve problems that are influenced by consumer, marketing, and technical considerations. This is a hands-on laboratory and computer intensive course that will allow students to experience design and technology issues.

**BUILDING TRADES 1**
Semester .5 credit  
Prerequisite: None  
Grades 9-12
In this course, students work with full-size construction materials. They will perform rough carpentry construction projects such as a bathroom or storage buildings. They study job site safety, concrete foundation work, masonry
foundation work, framing a building, basic plumbing, and basic electrical. Students learn to make plans and estimate materials. Field trips to building trades / sites and building supply dealers are planned.

**BUILDING TRADES 2**  
Semester .5 credit  
Prerequisite: Building Trade 1  
Grades 9-12  
In this course, students continue to work with full-size construction materials. This course will continue instruction on finish carpentry projects related to a bathroom, or storage building. They study job site safety, drywall, flooring, tile setting, cabinetry, and finish work. Students learn project management skills and service and material cost and billing. Field trips to building trades / sites and building supply dealers are planned.

**INTRODUCTION TO BUSINESS**  
Whitnall Course #2210  
Semester .5 credit  
Prerequisite: None  
Grades 9-12  
Interested in running or owning a business? This course is designed to help students develop a basic understanding of how businesses function in today's society. Instruction includes an introduction to business management, financial planning, marketing and entrepreneurship through a hands-on business planning project. Careers in the business world and business ethics are also discussed.

**INTRODUCTION TO MARKETING**  
Whitnall Course #2480  
Semester .5 credit  
Prerequisite: None  
Grade 9-12  
Learn to develop a product and make it successful. Introduction to Marketing encompasses the study of marketing concepts, specifically the four P's (product, place, price, promotion) of marketing a product. Students will create a new product and apply concepts covered in class to create and present a marketing plan for the product. The sales process is also learned and demonstrated. A "must have" course for students interested in competing in DECA competitive events.

**EVENT AND PROJECT MARKETING**  
Whitnall Course #2490  
Semester .5 credit  
Prerequisite: Introduction to Marketing  
Grade 9-12  
Event and Project Marketing provides students with an exciting venue to learn about the fascinating areas of event and project marketing within the sports and entertainment and hospitality and tourism industries. Students will explore event planning, sponsorships, public image, endorsements, legal issues, recreation marketing and the entertainment industry. These venues will be used to cover the basic foundations and principles of marketing. Real-world projects and simulations will be used to bring this subject to life.

**ACCOUNTING I - MATC Transcripted Credit**  
Whitnall Course #2320  
Semester .5 credit  
Prerequisite: Intro to Business or Intro to Marketing
Grade 9-12
This course is designed to introduce the student to the basic accounting procedures and vocabulary of the “language of business.” Students will learn to complete all the accounting procedures of a sole proprietorship, service business. Through the application of both paper and software exercises and simulations, students will experience the entire accounting cycle from analyzing transactions to completing financial statements.

This course is STRONGLY recommended for any student who is considering a career in business or owning/managing a business venture.

ACCOUNTING 2 - MATC Transcribed Credit
Whitnall Course #2340
Semester .5 credit
Prerequisite: Accounting 1
Grade 9-12
Take your accounting knowledge to the next level. Through advanced application of both paper and software exercises and simulations, students are able to master the accounting cycle of partnerships and corporations. Topics examined include payroll, corporate taxes, uncollectable accounts, depreciation and inventory.

This course is STRONGLY recommended for students who are considering a career in business or owning/managing a business venture.

DIGITAL COMMUNICATIONS 1
Semester .5 credit
Prerequisite: None
Grades 9-12
This course is intended to engage student learning in the field of digital media and communications with hands-on projects and real-world activities. This course is based upon the development of a specific set of skills that would be required in the field of Digital Media. Specific competencies or skills areas include graphic design, animation, audio production, video production, and social media.

DIGITAL COMMUNICATIONS 2
Semester .5 credit
Prerequisite: Digital Communications 1
Grades 9-12
This course extends the foundational skills in Digital Communications 1 and applies advanced topics of audience analysis, media selection, market analytics, and content development. Students will engage in soliciting projects from within the district and community to develop both advanced technical skills and customer service skills.

AP Computer Science Principles
Whitnall Course #6650
Full Year 1 credit
Prerequisite: Algebra
Grades 10-12
In AP CS Principles you will learn the following topics:
  ○ The Internet
    ○ the digital representation of numbers and text, Internet Protocol, DNS, and TCP/IP
  ○ Digital Information
    ○ look at and generate data, clean it, manipulate it, and create and use visualizations to identify patterns and trends
  ○ Algorithms and Programming
    ○ programming using Javascript
  ○ Big Data and Privacy
build a well-rounded and balanced view about data in the world and both the positive and negative effects of it, and you'll understand the basics of how and why modern encryption works.

Building Apps
- use your programming skills from the Algorithms and Programming unit to create an app using Code.org's App Lab.

This course is available to high school students grades 10-12. It's recommended that a student has basic algebra skills, is very self-motivated, disciplined, and willing to put in a lot of effort. Remember, this is an AP class.

**AP Classes**

The following AP course may be available at the school listed based on enrollment. Time of class may vary depending on how the Master Schedule develops:

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