

GUIDELINES ON CLASS CHANGES

The total high school program (teacher and student class assignments) is set up based on the course selections students make during initial registration. In other words, classes are offered based upon the number of requests made. By changing a schedule, we are altering the number of students in a class, which can produce the following undesirable effects:

1. Reduce class size to a point where it would be no longer practical to offer the class.
2. Increase class enrollment so that a sound learning environment would no longer be present.
3. Make it difficult for teachers to begin instruction at the start of a semester.
4. Suggest to student that prior planning is not important.

Permitted:

1. Student fails a required class and needs to make up the credit.
2. Due to a schedule conflict, the student needs to make another choice.
3. Evidence of a scheduling/computer error.
4. Course is not in accordance with ability. (Requires recommendation of teacher.)

Not Permitted:

1. Student wishes to drop a course and add a similar level course due to change in preference.
2. Change of schedule because of personal preference (different teacher, lunch, study hall time, friend in other class, etc.).
3. Dropping a class after the two-week drop/add period.

GRADUATION REQUIREMENTS

As you prepare to register for next year, now would be an excellent time to review your future goals. Are your class choices in alignment with your goals? Please use this sheet as a planning guide.

	PHS Requirements		Entrance Requirements for MOST University of Wisconsin Schools
	-24 Total Credits -Successful completion of the following subject and credit requirements:		-Rank in the top 30%-50% -Successful completion of the following subjects:
English	4 Credits Including: English 9 English 10 2 additional credits of English	English	4 Credits
Social Studies	3 Credits Including: World Geography American History 1 additional credit of social studies	Social Studies	3 Credits
Science	2 credits 3 credits (2018 and beyond)	Science	3 Credits including -Biology -Physical Science -Lab Science (1 credit)
Math	3 credits	Math	3 Credits including -Algebra -Geometry -Advanced Algebra
Physical Education	1.5 Credits including P.E. 9 P.E. 10 2 additional semesters	World Languages	Recommended: 2 years of a single world language ***UW-Madison and UW-Eau Claire REQUIRE 2 years of a single world language for entrance. Please verify the entrance for the schools you are interested in attending.
Health	.5 credits if not earned prior to high school		

For more information regarding requirements for the University of Wisconsin System, pick up a University of Wisconsin handbook from Student Services.

Advanced Placement

What is Advanced Placement?

The Advanced Placement Program (AP) allows students to enroll in college-level courses while in high school, and gives them the opportunity to show mastery by taking an AP exam.

Advanced Placement Exam

AP exams are given during the month of May. Every student takes the same exam at the same time. Each exam consists of two sections. The first section is multiple-choice. The other section consists of free-response questions in various formats: essays, audio-taped responses, analysis of historical documents, extended problem solving, etc.

Advanced Placement Grades

The AP grading scale is as follows:

- 5 Extremely well qualified
- 4 Well Qualified
- 3 Qualified
- 2 Possibly qualified
- 1 No recommendation

Students will receive their grade report in July. Most colleges and universities accept AP scores of 3 or above to be considered for credit.

Benefits of Advanced Placement

Students will receive credit, advanced placement or both at most colleges and universities. The amount of credit received varies per college, AP score, and subject. Some colleges grant up to six college credits for a score of 5. Students are also able to move into a higher level class at college as freshmen. This not only translates into time saved, but also is a financial savings for each credit earned while in high school

Cost of Advanced Placement Exams

Students pay for each exam taken. The cost is \$91.00 per exam.

Advanced Placement Courses at PHS

- AP Calculus
- AP Language and Composition
- AP Literature and Composition
- AP US Government
- AP US History
- AP Psychology

International Transfer Students

International transfer students must present English translations of official educational documents verifying all of the previous educational experience. Tentative grade level placement will be made when a student enrolls in Platteville High School. Official grade level placement will be junior or sophomore level. Schools do not attempt to equate grades and courses taken in foreign school systems to PHS grading systems or courses. Each student's PHS transcript reflects the total number of PHS credits awarded for the student's prior educational experience. A maximum of six credits will be awarded for each successful year of secondary level education in their home country.

Certified Career Programs

Project Lead the Way

- PLTW is a pre-engineering program designed with a sequence of courses which combined with math and science courses introduces students to the scope, rigor and discipline of engineering and engineering technology prior to entering college. The basic courses are Introduction to Engineering Design, Computer Integrated Manufacturing, Principles of Engineering, and Civil Engineering and Architecture. PLTW is recognized by industry and post-secondary institutions for its merit. Some engineering schools give advanced standing for completion of PLTW coursework. PLTW is key for students who are on a course of study within the Science, Technology Engineering, and Mathematics Career Pathways.

ProStart

- ProStart is a program sponsored by the National and Wisconsin Restaurant Associations. ProStart is a college prep, two-year curriculum designed to teach students the skills needed for a successful career in the restaurant and food service industry. Students interested in exploring food service as a career can take a series of courses and tests that may enable them to receive up to 12 credits in a food service program at an accredited university. Students interested in Pro-Start should take Foods and Family & Food Service. ProStart is key for students who are on a course of study within the Hospitality and Tourism and Marketing, Sales and Service Career Pathways.

Certified Coops

- Available in Agriculture and Business. Involves work-based learning and verification of meeting Department of Public Instruction standards.

Youth Apprenticeship Program

- Open to Juniors and Seniors, students in the Youth Apprenticeship Program attend classes at the high school for part of the day, participate in a youth apprenticeship course for one or more hours a day, and work ten to fifteen hours per week. At the end of the one or two-year high school program, each youth apprentice will receive a Certificate of Occupational Proficiency, along with his/her high school diploma. Students may also receive advanced standing credits at any Wisconsin technical college. Application for this program is required. Applications may be obtained from the Vocational Education Coordinator.

Employability

This program is open to juniors and seniors wanting to gain work experience in a field they plan to pursue in the future. To be eligible for this program, students must have demonstrated academic achievement during their freshman and sophomore years, possess positive behaviors and attitudes, and have a good attendance record.

Career Clusters

Career Clusters represent virtually the entire world of work. They have been developed to aid students in exploring options for their future by organizing the world of work into sixteen occupational and industry areas. Career clusters not only help identify common interests, aptitudes, knowledge, and skills that connect occupations into a cluster, but they also serve as a tool for connecting the student's high school education and employability skills to the world of work and their career goals.

When considering possible course selections for next school year, Platteville High School students should review these clusters and identify which cluster or clusters provide the best "fit" for them. Keep in mind your career interests when you make your final course selections. The courses you select for next year will provide appropriate knowledge and skills for future educational and career destinations.


The 16 clusters are the following:

- Agriculture, Food and Natural Resources*
- Architecture and Construction*
- Arts, A/V Technology and Communications*
- Business, Management and Administration*
- Education and Training*
- Finance*
- Government and Public Administration*
- Health Science*
- Hospitality and Tourism*
- Human Services*
- Information Technology*
- Law, Public Safety, Corrections & Security*
- Manufacturing*
- Marketing, Sales & Service*
- Science, Technology, Engineering & Mathematics*
- Transportation, Distribution & Logistics*


Which Clusters Interest You?

Use the following eight pages to find more about the many careers within the 16 clusters. You will find the courses Platteville High School offers that will help you explore the cluster of your choice.


*Key Sequence of Courses

		
Agriculture, Food & Natural Resources		
Recommend Courses of Study		
Course Name	Course #	Grade Level
Agriculture and Natural Resources		
*Intro Ag & Natural Resources	151	9-12
*Animal Science	153	9-12
*Veterinary Science	154	11-12
*Plant & Soil Science	157	9-12
*Food Science	160	9-12
*Horticulture/Landscape	254	9-12
*Exploring Natural Resources	258	9-12
*Ag Marketing & Leadership	259	10-12
*Biotechnology in Agriculture	350	10-12
*Ag Coop Work	455	12
Pro-Start Food Management		
*Creative Careers in FACS	167	9-12
*Foods & Family	161	9-11
*Food Service	261	11-12
Exploring Mnfg & Construction	176	9-12
Entrepreneurship	194	9-12
Hillmen Outlets	295	11-12
Energy, Power & Transportation	174	9-11
Food Science	160	9-12
Sample of Occupations Relating to This Career Cluster		
<i>Agricultural Sales, Food Inspectors, Meat Cutters-Meat Graders, Cheesemakers, Microbiologists, Food & Drug Inspectors, Plant Breeders and Geneticists, Agricultural Educators, Aquaculturalists, Agricultural Journalists, Golf Course Superintendents, Greenhouse Managers, Farmers, Livestock Producers, Veterinary Assistants, Livestock Buyers, Wildlife Biologists, Animal Nutritionists, Dairy Producers, USDA Inspectors, Agricultural Engineer, Welders, GPS Technicians, Cartographers, Wildlife Managers, Ecologists, Loggers, Geologists, Fisheries Technician, Pollution Hazardous Materials Handler, Water Quality Manager, Feed and Supply Store Manager</i> Go to careerclusters.org for a more complete list of occupations.		


*Key Sequence of Courses

		
Architecture & Construction		
Recommend Courses of Study		
Course Name	Course #	Grade Level
Construction		
*Exploring Mnfg & Construction	176	9-12
*Construction Technology	276	10-12
*Civil Engineering & Architecture	372	10-12
*Woodworking & Design	376	11-12
Architecture		
*Intro to Engineering & Design	172	9-12
*Civil Engineering & Architecture	372	10-12
*Principles of Engineering	328	10-12
Exploring the Housing Industry	163	9-12
Production Graphics	179	10-12
Creative Careers in FACS	167	9-12
Entrepreneurship	194	9-12
Welding & Fabrication	156	10-12
Energy, Power & Transportation	174	9-11
Horticulture & Landscape Design	254	10-12
Computer Sci & Software Engineering	272	10-12
Drawing	287	10-12
Sample of Occupations Relating to This Career Cluster		
<i>Architect, Architect Drafter, Regional and Urban, Planner/Designer, Industrial Engineer, Mechanical Drafter, Civil Engineer, Programmer, Mechanical Engineer, Electrical Engineer, Environmental Engineer, Landscape Architect, Surveyor, Electrical and Electronic Engineering Technician, Civil Engineering, Technician, Interior Designer, Landscape Designer, Computer-Aided Drafter (CAD), Renderer, Modeler, General Contractor/Builder, Tile and Marble Setter, Landscaper/Groundskeeper, Roofer, Painter, Plasterer/Drywall, Electrician, Steamfitter, Reliability Engineer, Environmental Engineer, Safety Director</i> Go to careerclusters.org for a more complete list of occupations.		


***Key Sequence of Courses**

			Arts, A/V Technology & Communications
Recommend Courses of Study			
Course Name	Course #	Grade Level	
*Production Graphics	179	10-12	
Media Literacy	203	10-12	
*Multi-Media	279	9-12	
*Photography	379	11-12	
Fine Arts Courses	182-583	9-12	
Writing for Pub	504-506	9-12	
Speech & Drama	502	11-12	
Computer Literacy 1	190	9-12	
Computer Literacy 2	191	9-12	
Fashion Careers	162	9-12	
Entrepreneurship	194	9-12	
Creative Writing	501	10-12	
Sample of Occupations Relating to This Career Cluster			
<i>Video Systems Technicians, Video Graphics, Special Effects and Animation, Audio-Video Designers and Engineers, Technical Computer Support Technicians, State, Film, Video, and DVD, Audio-Video System Service Technicians, Audio Systems Technicians, Graphics and Printing Equipment Operators, Lithographers and Platemakers, Computer Typography and Composition Equipment Operators, Desktop Publishing Specialists, Web Page Designers, Commercial Photographers, Digital, Still, Video, Film, Interior Designers, Commercial/Residential and Home Furnishings Coordinators, Graphic Designers, CAD Technicians, and Fashion Illustrators, Textile Designers, Commercial Artists, Illustrators, and Artists, all Media, Curators and Gallery Managers, Fashion Designers, Production Managers, Digital, Video, Stage, Cinematographers, Film/Video Editors, Dancers, Play Writers, Screen Writers, Screen Editors, Script Writers, Directors and Coaches, Performers, Actors, Musicians, Make-Up Artists and Costume Designers, Stagecraft Designers, Lighters, Sets, Sound Effects, Acoustics, Painters, Composers, Conductors, and Music Instructors, Audio/Video Operations, Control Room Technician, Station Managers and Radio & TV Announcers, Publishers, Editors, and Journalists and Reporters, Print, Broadcast, Other, Broadcast Technicians, Telecommunication Technicians, Telecommunication Equipment, Cable, Line Repairers/Installers, Telecommunication Computer Programmers, and Systems Analysts</i>			


***Key Sequence of Courses**

			Business, Management & Administration
Recommend Courses of Study			
Course Name	Course #	Grade Level	
*Computer Literacy 1	190	9-12	
*Computer Literacy 2	191	9-12	
*Accounting I	390	11-12	
*Business Procedures	393	11-12	
*Business Coop Class	494	12	
*Business Coop Work	495	12	
Production Graphics	179	10-12	
Entrepreneurship	194	9-12	
Hillmen Outlets	295	11-12	
Speech & Drama	502	11-12	
Civics	312	11-12	
Global Studies	315	11-12	
Personal Finance	392	11-12	
Psychology	413	12	
Sample of Occupations Relating to This Career Cluster			
<i>Entrepreneurs, Relations Managers, Human Resource Managers, Facilities Managers, Meeting & Convention Planners, Sports & Entertainment Managers, Hospital Management, Public Relations Specialists, Accountants, Adjuster, Auditor, Bookkeeper, Budget Manager, Controller, Merger & Acquisitions Manager, Finance Director, Certified Public Accountant, Accounts Receivable Clerk, Billing Clerk, Industrial Relations Director, Compensation & Benefits Managers, Human Resources Consultant, Corporate Trainer Mediators/Arbitrators, Employer Relations Representatives, Affirmative Action Coordinators, Equal Employment Opportunity Specialists, Interpreters & Translators, Compensation, Human Resources Information Systems Specialists, Systems Analyst, Product Manager, Price Analyst, Store Manager, Salesperson, Customer Service Supervisor, Counter Person, Customer Service Clerk, Research & Development Manager, Property, Real Estate and Association Manager & Supervisor, Small Business Owner & Entrepreneur, E-Commerce Manager & Entrepreneur, Wholesale & Retail Buyer, Warehouse Manager, Market Researcher, Public Relations Specialist, Public Relations Writer, Copywriter, Media Coordinator, Art Director, Graphic Designer, Wholesale, Freight, Stocking, Handling, Material Moving and Packing Worker, Traffic, Shipping, & Receiving Clerk, Telemarketer, Administrative Assistant, Information Assistant, Desktop Publisher, Customer Service Assistant, Data Entry Specialists, Receptionist, Computer Operator, Court Reporter, Stenographer, Shipping & Receiving Personnel, Typists, Medical Transcriptionist, Legal Secretaries, Paralegals</i> <p style="text-align: center;">Go to careerclusters.org for a more complete list of occupations.</p>			


*Key Sequence of Courses

			Education & Training
Recommend Courses of Study			
Course Name	Course #	Grade Level	
Speech & Drama	502	11-12	
Writing for Publications	504-506	9-12	
Creative Careers in FACS	167	9-12	
Entrepreneurship	194	9-12	
Media Literacy	203	10-12	
Parents and Children	265	10-12	
Creative Writing	501	10-12	
Civics	312	11-12	
Psychology	413	12	
Sample of Occupations Relating to This Career Cluster			
<p><i>Superintendents, Principals, Administrators, Supervisors and Instructional Coordinators, Education Researchers, Test Measurement Specialists, College Presidents, Deans, Curriculum Developers, Instructional Media Designers, Psychologists- Clinical, Developmental-Social, Social Workers, Parent Educators, Counselors, Speech-Language Pathologists and Audiologists, Preschool & Kindergarten Teachers, Elementary Teachers, Secondary Teachers, Special Education Teachers, College/University Lecturers, Professors, Human Resources, Trainers, Physical Trainers, Coaches, Child Care Directors, Child Care Workers, Child Life Specialist, Nanny, Early Childhood Teachers, Teacher Assistants, Group Workers and Assistants</i></p>			


*Key Sequence of Courses

			Finance
Recommend Courses of Study			
Course Name	Course #	Grade Level	
Computer Literacy 1	190	9-12	
Computer Literacy 2	191	9-12	
Entrepreneurship	194	9-12	
Hillmen Outlets	295	11-12	
*Accounting	390	11-12	
*Business Coop Work	495	12	
Family and Jobs	164	9-12	
Creative Careers in FCE	167	9-12	
Family and Society	264	10-12	
Personal Finance	39	11-12	
Sample of Occupations Relating to This Career Cluster			
<p><i>Personal Financial Advisor, Tax Preparation, Sales Agents, Securities, Commodities, Investment Advisors, Brokerage Clerk (Assistant), Development Officers, Accountants, Financial Analysts, Treasurers, Controllers and Chief Revenue Agents, Auditor, Economists, Tax Examiners, Collectors, Revenue Agents, Credit Analyst, Loan Officers, Bill and Account Collectors, Tellers, Loan Processors, Customer Service Reps, Data Processors, Accounting, Internal Auditors, Compliance Officers, Title Researchers & Examiners, Abstractors, Credit Report Providers, Repossession Agents, Network Services, Operations Managers, Debt Counselors, Claims Agents, Examiners, and Investigators, Claims Clerks, Insurance Appraisers, Underwriters, Actuaries, Sales Agents, Customer Service Agents, Processing Clerks, Direct Marketing</i></p>			


*Key Sequence of Courses

		
Government & Public Administration		
Recommend Courses of Study		
Course Name	Course #	Grade Level
Media Literacy	203	10-12
Speech & Drama	502	11-12
Writing for Publications	504	9-12
AP U.S. History	215	10-12
Creative Writing	501	10-12
Civics	312	11-12
Wisconsin	313	11-12
AP U.S. Gov/Politics	314	11-12
Global Studies	315	11-12
Psychology	413	12
AP Psychology	414	12
Sample of Occupations Relating to This Career Cluster		
<p><i>President, Vice President, Governor, Lieutenant Governor, Mayor, Cabinet Level Secretary, Representative, Senator, Assistants, Deputies, and Chiefs of Staff, Commissioner, Congressional Aide, Legislative Aide, Lobbyist, Policy Advisor, National Security Advisor, Staff or Field Officer, Officer/Specialist: Electronic Warfare Operations, Combat Operations, Infantry Field Artillery, Air Defense Artillery, Special Forces, Armor, Munitions, Nuclear Weapons, Missile and Space Systems, Military Intelligence, Signals Intelligence, Surface Ship Warfare Officer, Submarine Officer, Combat Control Officer, Combat Engineer, Combat Aircraft Pilot/Crew, Airborne Warning/Control Specialist, Intelligence/Counterintelligence, Agent/Specialist, Intelligence Analyst, Cryptographer, Ambassador, Foreign Service Officer: Consular Officer, Administrative Officer, Political Officer, Economic Office, Diplomatic Courier, Business/Enterprise Official, Chief of Vital Statistics, Commissioner, Director, Economic Development Coordinator, Federal Aid Coordinator, Census Clerk, County Director, Census Enumerator, Planner, Program Associate, Global Imaging Systems Specialist Assessor, Tax Auditor, Internal Revenue Investigator, Revenue Agent/Officer, Tax Examiner/, Assistant/Clerk, Inspector General, Tax Attorney, Tax Policy Analyst, Business Regulation Investigator, Chief of Field Operations, Code Inspector/Officer, Director, Equal-Opportunity Officer, Inspector Investigator/Examiner, Chief Bank Examiner, Bank Examiner, Aviation Safety Officer, Border Inspector, Cargo Inspector, Election Supervisor, Enforcement Specialist, Immigration Officer, City Manager, City Council, City or County Clerk, Court Administrator or Clerk, Executive Director/, Officer/Associate: Foundation, Association, Charitable Organization, Industrial Foundation, Chamber of Commerce, , General Service Officer, Management Analysis Officer, Program Administration Officer</i></p> <p style="text-align: center;">Go to careerclusters.org for a more complete list of occupations.</p>		


*Key Sequence of Courses

		
Health Science		
Recommend Courses of Study		
Course Name	Course #	Grade Level
*Creative Careers in FACS	167	9-12
Chemistry	221	10-12
Biology	121	9-10
Human Body Systems	222	10-12
Physics	322	11-12
Psychology	413	12
Advanced Chemistry	421	12
Sample of Occupations Relating to This Career Cluster		
<p><i>Acupuncturist, Anesthesiologist Assistant, Art/Music/Dance Therapist(s), Athletic Trainer, Audiologist, Certified Nursing Assistant, Chiropractor, Dental Assistant / Hygienist, Dental Lab Technician, Dentist, Dietician, EMT, Exercise Physiologist, Home Health Aide, Kinesiotherapist, Licensed Practical Nurse, Massage Therapist, Medical Assistant, Mortician, Occupational Therapist / Asst, Ophthalmic Medical Personnel, Optometrist, Paramedic, Pharmacist/Pharmacy Tech, Physical Therapist / Assistant, Physician (MD/DO), Physician's Assistant, Psychologist, Recreation Therapist, Registered Nurse, Respiratory Therapist, Social Worker, Speech Language Pathologist, Surgical Technician, Veterinarian / Vet Tech, Clinical Lab Technician, Computer Tomography (CT) Technologist, Cytogenetic Technologist, Cytotechnologists, Diagnostic Medical Sonographers, (ECG) Technician, , Exercise Physiologist, Geneticist, Histotechnician, Magnetic Resonance (MR) Technologist, Mammographer, Medical Technologist / Clinical Laboratory Scientist, Nuclear Medicine Technologist, Nutritionist Pathologist, Phlebotomist, (PET) Technologist, Radiologic Technologist/, Radiologist, Admitting Clerk, Community Services Specialists, Data Analyst, Epidemiologist, Ethicist, Health Educator, Health Information Coder, Medical Assistant, Medical Librarian/Cybrarian, Patient Advocates, Public Health Educator, Risk Management, Social Worker, Transcriptionist, Biomedical / Clinical Engineer, Biomedical / Clinical Technician, , Environmental Health and Safety, Environmental Services, Facilities Manager, Food Service, Hospital Maintenance Engineer, Industrial Hygienist, Transport Technician, Biochemist, Bioinformatics Specialist, Biomedical Chemist, Biostatistician, Cell Biologist, Clinical Trials Research Associate, Geneticist, Lab Assistant, Microbiologist, Pharmaceutical Scientist, Quality Assurance Technician, Research Assistant, Toxicologist</i></p> <p style="text-align: center;">Go to careerclusters.org for a more complete list of occupations.</p>		


*Key Sequence of Courses

	Hospitality & Tourism	
Recommend Courses of Study		
Course Name	Course #	Grade Level
Food Science	160	9-12
Foods & Family	161	9-11
Family and Jobs	164	9-12
Creative Careers in FACS	167	9-12
Computer Literacy 1	190	9-12
Computer Literacy 2	191	9-12
Media Literacy	203	10-12
Speech & Drama	502	11-12
Family & Society	264	10-12
Intro to Marktg & Entertainment	290	10-12
Sports & Entertainment Mrktg	291	10-12
Entrepreneurship	194	9-12
Hillmen Outlets	295	11-12
Food Service	261	11-12
Accounting I	390	11-12
Business Coop Work	495	12
Sample of Occupations Relating to This Career Cluster		
<p><i>General Manager, Food & Beverage Manager, Catering & Banquets Manager, Service Manager, Restaurant Owner, Baker, Caterer, Chef, Cook, Bartender, Restaurant Server, Host, Front Office Manager, Executive Housekeeper, Director of Sales & Marketing, Director of Human Resources, Director of Security, Food & Beverage Director, Resident Manager, General Manager, Regional Manager, Quality Assurance Manager, Owner/Franchisee, Front Desk Supervisor, Reservations Supervisor, Bell Captain, Shift Supervisor, Valet Attendant, Concierge, Public Space Cleaner, Maintenance Worker, Van Driver, Director of Sales, Group Sales Manager, Events Manager, Convention Services Manager, Travel Agent, Event Planner, Special Events Producer, Transportation Specialist, Visitor Center Counselor, Tour Guide, Tour Operator, Motor Coach Operator, Interpreter, Club Manager, Parks & Gardens Director, Parks & Gardens Activity Coordinator, Resort Instructor, Gaming & Casino Dealer, Historical /Cultural/Architectural Ecological Industrial Sites Guides/Ranger, Museums/Zoos/Aquariums Exhibit Developer</i></p> <p style="text-align: center;">Go to careerclusters.org for a more complete list of occupations.</p>		


*Key Sequence of Courses

	Human Services	
Recommend Courses of Study		
Course Name	Course #	Grade Level
Family and Jobs	164	9-12
Creative Careers in FACS	167	9-12
Computer Literacy 1	190	9-12
Computer Literacy 2	191	9-12
Entrepreneurship	194	9-12
Hillmen Outlets	295	11-12
Speech & Drama	502	11-12
Family & Society	264	10-12
Parents & Children	265	10-12
Civics	312	11-12
Personal Finance	392	11-12
Global Studies	315	11-12
Psychology	413	12
Sample of Occupations Relating to This Career Cluster		
<p><i>Directors, Childcare Facilities, Assistant Directors, Childcare Facilities, Elementary School Counselors, Preschool Teachers, Educators for Parents, Nannies, Teacher's Assistant, Childcare Assistants/Workers, Clinical and Counseling Psychologists, Industrial-Organizational Psychologists, Sociologists, School Counselors/Psychologists, Substance Abuse and Behavioral Disorder Counselors, Mental Health Counselors, Vocational Rehabilitation Counselors, Career Counselors, Employment Counselors, Residential Advisors, Marriage, Child and Family Counselors, Community Service Directors, Adult Day Care Coordinators, Coordinators of Volunteers, Licensed Professional Counselors, Religious Leaders, Directors, Religious Activities/Education Programs, Human Services Worker, Social Services Workers, Vocational Rehabilitation Counselors, Employment Counselors, Career Counselors, Vocational Rehabilitation Service Workers, Leisure Activities Coordinators, Dieticians, Geriatric Service Workers, Adult Day Care Workers, Residential Advisors, Emergency and Relief Workers, Community Food Service Workers, Community Housing Service Workers, Social and Human Services Assistants, Barbers, Cosmetologists, Hairdressers, & Hairstylists, Shampooers, Nail Technicians, Manicurists & Pedicurists, Skin Care Specialists/Estheticians, Electrolysis Technicians, Electrologists, Funeral Directors/Morticians, Embalmers, Funeral Attendants, Personal and Home Care Aides, Companions, Spa Attendants, Personal Trainers, Massage Therapists</i></p>		


*Key Sequence of Courses

			Information & Technology
Recommend Courses of Study			
Course Name	Course #	Grade Level	
Information			
*Production Graphics	179	10-12	
*Computer Literacy 1	190	9-12	
*Computer Literacy 2	191	9-12	
*Multi-Media	279	9-12	
*Photography	379	11-12	
Technology			
*Intro to Engineering Design	172	9-12	
*Principles of Engineering	328	10-12	
Computer Sci & Software Engineering	272	10-12	
*Computer Integ Mnfg	277	10-12	
*Woodworking & Design	376	11-12	
Entrepreneurship	194	9-12	
Speech & Drama	502	11-12	
Sample of Occupations Relating to This Career Cluster			
<p><i>Network: Administrator, Analyst, Architect, Engineer, Manager, Operations Analyst, Specialist, Technician, Transport Administrator, PC Support Specialist</i> <i>Systems: Administrator, Engineer, Technical Support Specialist, User Support Specialist,</i> <i>Data: Administrator, Analyst, Architect, Management Associate, Modeler</i> <i>Help Desk: Specialist, Technician, Maintenance Technician, PC Support Specialist, PC</i> <i>Systems Coordinator, Product Support Engineer, Sales Support Technician, Systems Analyst</i> <i>Technical: Account Manager, Support Engineer, Support Representative, Testing Engineer</i> <i>Data: Systems Designer, Systems Manager, Warehouse Designer, E-Business Specialist,</i> <i>Digital Media: 2D/3D Artist, Animator, Audio/Video Engineer, Media/Instructional Designer</i> <i>Multimedia: Author, Authoring Specialist, Programmer, Virtual Reality Specialist</i> <i>Applications: Analyst, Engineer, Business Analyst, Computer Engineer, Data Modeler</i> <i>Operating System: Designer/Engineer, Programmer Analyst, Programmer, Project Lead</i> <i>Software Applications: Specialist, Architect, Design Engineer, Development Engineer,</i> <i>Go to careerclusters.org for a more complete list of occupations</i></p>			


*Key Sequence of Courses

			Law, Public Safety, Corrections & Security
Recommend Courses of Study			
Course Name	Course #	Grade Level	
Computer Literacy 1	190	9-12	
Computer Literacy 2	191	9-12	
Entrepreneurship	194	9-12	
Speech & Drama	502	11-12	
Civics	312	11-12	
Global Studies	315	11-12	
Physics	322	11-12	
Personal Finance	392	11-12	
AP Government and Politics	314	12	
Psychology	413	12	
Advanced Chemistry	421	12	
Sample of Occupations Relating to This Career Cluster			
<p><i>Warden, Jail Administrator, Program Coordinator and Counselor, Public Information Officer, Case Manager, Community Corrections Practitioner, Probation/parole officer, Corrections Officer, Youth Services Worker, Facility Maintenance Workers, Transport Officer, Medical Staff, Dietitian, Emergency Management and Response Coordinator, EMT, Fire Fighter, Hazardous Materials Responder, Dispatcher, Training Officer, Rescue Workers, Security Director, Security Systems Designer/Consultant, Information Systems Security Specialist, Computer Forensics specialist, Loss Prevention/Security Manager, Security Systems Technician, Investigative Assistant, Security Trainer, Transportation Security Supervisor, Information Security, Supervisory Security officer (armed, unarmed), Certified Security Officer, Armored Car Guard, Control Center Operator, Uniformed Security Officer (Unarmed --armed), Computer Security Specialist, Computer Forensics Examiner, Gaming Surveillance Specialist, Information Security specialist, Armored Car Guards, Industrial Espionage Security, Life Guard, Ski Patrol, Private Security Specialist, Animal Control Officer, Child Support, Missing Persons, Unemployment Fraud Investigators, Criminal Investigators & Special Agents, Bomb Technician, Game Enforcement Officer, Highway Patrol Pilots, Immigration & Customs Inspectors, , Police Detectives and Criminal Investigators, Police, Fire & Ambulance Dispatchers, Police & Patrol Officers, Private Detectives & Investigators, Sheriffs & Deputy Sheriffs, Training Officer, Transit & Railroad Police, Park Ranger, Evidence Technician, Federal Marshall, Administrative Law, Attorney, Case Management Specialist, Court Reporter, File and, Document Manager, Information Officer, Investigator, Judge, Law Clerk, Legal Assistant, Legal Secretary, Magistrate, Mediator/Arbitrator, Negotiator, Para legal</i> <i>Go to careerclusters.org for a more complete list of occupations</i></p>			


*Key Sequence of Courses

 Manufacturing		
Recommend Courses of Study		
Course Name	Course #	Grade Level
Welding & Fabrication	156	10-12
*Exploring Mnfg & Construction	176	9-12
*Construction Technology	276	10-12
*Computer Integ Mnfg	277	10-12
*Woodworking & Design	376	11-12
Intro to Engineer'g Design	172	9-12
Energy, Power & Transportation	174	9-11
Entrepreneurship	194	9-12
Chemistry	221	10-12
Computer Sci & Software Engineering	272	10-12
Principles of Engineering	328	10-12
Civil Engin & Architecture	372	10-12
Physics	322	11-12
Photography	379	11-12
Sample of Occupations Relating to This Career Cluster		
<i>Assemblers, Automated Manufacturing Technicians, Calibration Technicians, Electrical Installers and Repairers, Foundry Workers, Grinding, Lapping, and Buffing Machine Operators, Hand Packers and Packagers, Large Printing Press Machine Setters and Set-Up Operators, Machine Operators, Managers, Supervisors, Medical Appliance Makers, Milling Machine Setters, Millwrights, Cutters/Brazers, Soldering, Painters, Pattern & Model Makers, Precision Layout Workers, Precision Optical Goods Workers, Sheet Metal Workers, Solderers and Brazers, Tool and Die Makers, Welders, Design Engineers, Electronics Engineers, Industrial Engineers, Manufacturing Engineers, Manufacturing Technicians, Power Generating and Reactor Plant Operators, Process Improvement Technicians, , Boilermakers, Communication System Installers/Repairers, Computer Installers/Repairers, Facility Electricians, Instrument Calibration and Repairers, Instrument Control Technicians, Laser Systems Technicians, Maintenance Repairers, Major Appliance Repairers, Meter Installers/Repairers, Millwrights, Plumbers, Pipe Fitters and Steam Fitters, Security System Installers/Repairers, Calibration Technicians, Inspectors, Lab Technicians, Process Control Technicians, Quality Control Technicians, Communications, Transportation and Utilities Managers, Dispatchers, Stock, and Material Movers, Industrial Truck and Tractor Operators, Logistical Engineers, Logistician, Material Handlers, Material Movers, Process Improvement Technicians, Quality Control Technicians, Traffic Managers, Shipping, and Receiving Clerks, Environmental Specialists, Health and Safety Representatives, Safety Coordinators, Safety Engineers, Safety Team Leaders, Safety Technicians</i> Go to careerclusters.org for a more complete list of occupations.		


***Key Sequence of Courses**

 Marketing, Sales & Service		
Recommend Courses of Study		
Course Name	Course #	Grade Level
*Entrepreneurship	194	9-12
*Marketing Ag Products	259	10-12
*Hillmen Outlets	295	11-12
Intro to Mrktg & Entertainment	290	10-12
Sports & Entertainment Mrktg	291	10-12
*Accounting I	390	11-12
*Business Coop Class	494	12
*Business Coop Work	495	12
Creative Careers in FACS	167	9-12
Computer Literacy 1	190	9-12
Computer Literacy 2	191	9-12
Computer Sci & Software Engineering	272	10-12
Speech & Drama	502	11-12
Writing for Publications	504-406	9-12
Creative Writing	501	10-12
Personal Finance	392	11-12
Sample of Occupations Relating to This Career Cluster		
<i>Entrepreneurs, Small Business Owners, Chief Executive Officers, Franchisees, Independent Distributor, Customer Service Representatives, Regional Sales Managers, Client Relationship Managers, Territory Representatives / Managers, Sales Engineers, Sales Executives, Manufacturer's Representatives, Salespersons, Brokers, Agents, Field Representatives, Telemarketers, Customer Service Representatives, Store Managers, Merchandise Buyers, Operations Managers, Sales Managers, Department Managers, Customer Service Representatives, Clerks, Administrative Support Representatives, Public Relations Managers, Sales Promotion Managers, Promotions Managers, Art/Graphics Directors, Creative Directors, Sales Representatives, Media Buyers/Planners, Copywriters, Research Specialists, Customer Service Representatives, Database Managers, Marketing Services Managers, Customer Satisfaction Managers, Strategic Planners, Marketing, Product Planners, Directors of Market Development, Research Associates, Knowledge Management Specialists, Interviewers, Warehouse Managers, Materials Managers, Traffic Managers, Distribution Coordinators, Shipping / Receiving Administrators, Shipping / Receiving Clerks, Customer Service Representatives, E-Merchandising Managers, E-Commerce Directors, Web Site Project Managers, Internet Project Directors On-line Market Researchers, Copywriters-Designers, Customer Support Specialists, Customer Service Representatives, Administrative Support Representatives</i> Go to careerclusters.org for a more complete list of occupations.		

***Key Sequence of Courses**

		
Science, Technology, Engineering & Mathematics		
Recommend Courses of Study		
Course Name	Course #	Grade Level
Biology	121	9-10
Chemistry	221	10-12
*Intro to Engineering Design	172	9-12
*Computer Integ Mnfg	277	10-12
*Principles of Engineering	328	10-12
*Civil Engin & Architecture	372	10-12
*Physics	322	11-12
Welding & Fabrication	156	10-12
Food Science	160	9-12
Exploring Mnfg & Construction	176	9-12
Production Graphics	179	10-12
Energy, Power & Transportation	174	9-11
Human Biology	222	10-12
Woodworking & Design	376	11-12
Algebra III	430	11-12
Advanced Chemistry	421	12
Calculus	431	12
Sample of Occupations Relating to This Career Cluster		
<p><i>Aerospace Engineer, Biomedical Engineer, Civil Engineer, Computer Engineer, Computer Programmer, Computer Software Engineer, Construction Engineer, Drafter, Electrical Engineer, Environmental Engineer, Facilities Technician, Hazardous Waste Engineer, Hazardous Waste Technician, Industrial Engineer, Industrial Engineering Technician, Mechanical Engineer, Metallurgic Engineer, Naval Engineer, Network Technician, Packaging Engineer, Packaging Technician, Petroleum Engineer, Pharmaceutical Engineer, Power Systems Engineer, Radio/TV Broadcast Technician, Radiology Engineer, Safety Engineer, Software Engineer, Sound Technician, Structural Engineer, Telecommunications Engineer, Transportation Engineer, Archeologist, Astronomer, Biologist, Botanist, CAD operator, Cartographer, Chemist, Conservation scientist, Cosmologist, Cryptographer, Ecologist, Environmental scientist, Geneticist, Geologist, Geophysicist, Herpetologist, Hydrologist, Ichthyologist, Inorganic chemist, Laboratory Technician, Marine scientist, Mathematician, Metallurgist, Meteorologist, Microbial Physiologist, Nanobiologist, Nuclear chemist, Nutritionist, Oceanographer, Organic chemist, Ornithologist, Paleontologist, Physicist, Protozoologist, Research Technician, Science Teacher, Lab Technician, Statistician, Technical writer, Toxicologist, Zoologist</i></p> <p style="text-align: center;">Go to careerclusters.org for a more complete list of occupations.</p>		

***Key Sequence of Courses**

		
Transportation, Distribution & Logistics		
Recommend Courses of Study		
Course Name	Course #	Grade Level
*Intro to Engineering Design	172	9-12
*Entrepreneurship	194	9-12
*Energy, Power & Transportation	174	9-11
*Principles of Engineering	328	10-12
Civil Engin & Architecture	372	10-12
Physics	322	11-12
Sample of Occupations Relating to This Career Cluster		
<p><i>Air/Space Transportation: Transportation manager;, Commercial pilot;, Flight engineers; Flight attendants; Air traffic controllers; Aircraft cargo handling supervisors;</i> <i>Rail Transportation: Transportation managers; Dispatchers-rail;, Locomotive engineers; Railyard conductors and yardmasters; Railroad brake, signal and switch operators; other railyard and terminal operations and support jobs</i> <i>Water Transportation: Transportation managers/Captains, Mates, Pilots of water vessels, Sailors and marine oilers, Ship engineers, Motorboat operators, Bridge and lock tenders</i> <i>Road Transportation: Transportation managers; Dispatchers; Truck driver; Bus drivers; Logisticians; Logistics manager; Logistics Engineers; Logistics analysts; Logistics consultants; Warehouse manager; shipping and receiving clerks; Production, planning, expediting clerks; Laborers and material movers-hand; stock and material movers.</i> <i>Facility: Facility maintenance managers and engineers, Electrical/electronic technicians</i> <i>Mobile Equipment: General--Mobile equipment maintenance managers, Electrical installers</i> <i>Rail—Signal and track switch repairers, Rail locomotive and car mechanics and repairers</i> <i>Road—Electronic equipment installers and repairers, Automotive body and related repairers, Automotive glass installers and repairers, Automotive service technicians and mechanics, Bus and truck mechanics and diesel engine specialists, Motorcycle mechanics, General—Intermodal--Urban and regional planners, Civil engineers, Surveying and mapping technicians, Government service executives, Environmental compliance inspectors</i> <i>Other---Other government agency managers, Regulators, Inspectors, other federal/state/local transportation agency jobs, Health and safety managers, Industrial health and safety engineers, Marketing managers, Sales managers, Reservation, travel and transportation agents/clerks, Cargo and freight agents, Customer service representatives, Customer order and billing clerks, Cashiers, counter and rental clerks</i></p> <p style="text-align: center;">Go to careerclusters.org for a more complete list of occupations.</p>		

Agriculture and Natural Resources

Course	Title	Grade			
		9	10	11	12
151	Introduction to Agriculture and Natural Resources	X	X	X	X
153	Animal Science	X	X	X	X
154	Veterinary Science			X	X
157	Plant and Soil Science	X	X	X	X
160	Food Science	X	X	X	X
254	Horticulture and Landscape Design	X	X	X	X
258	Exploring Natural Resources	X	X	X	X
259	Agriculture Marketing and Leadership		X	X	X
350	Biotechnology in Agriculture		X	X	X
455	Ag Cooperative Work Experience				X

Introduction to Agriculture and Natural Resources (151) ½ credit

Grades 9 – 12 Prerequisite: None

Note: This bi-annual course will alternate with Biotechnology in Agriculture and is offered in the 2017-2018 school year.

This course is recommended for incoming freshmen to take and explore the possibilities! Where would you be without agriculture...unclothed and hungry! This hands-on class explores topics from all of the agriculture and natural resource pathways. You will have the opportunity to make beef jerky, work with animals, wildlife, plants in the greenhouse, landscaping outside, and learn about leadership opportunities in the natural resources and agricultural careers. Are you ready to explore the possibilities?

Animal Science (153) ½ credit

Grades 9 – 12 Prerequisite: None

Note: Credit may be applied to the science requirement for high school graduation

Students will become familiar with the overall care and management of domesticated animals. This course will include units in horses, dairy and beef cattle, sheep, goats, poultry, dogs, cats, animal welfare, current events, reproduction/genetics, animal health, and feeding/nutrition. Individual and group study will be highlighted by lab activities and/or field trips.

Veterinary Science (154) ½ credit

Grades 11 – 12 Prerequisite: Biology & Animal Science, and Instructor's permission

Class Fee: \$10.00

Note: Credit may be applied to the science requirement for high school graduation

Veterinary Science is for students interested in learning more about careers related to animals, such as veterinarians or vet technicians. Current trends, career exploration and student leadership will be critical components. Student's will study and explore hands-on about the tissue, circulatory, respiratory, nervous, digestive, and reproductive systems and perform dissections.

Plant and Soil Science (157) ½ credit

Grades 9 – 12 Prerequisite: None

Class Fee: \$10.00

Note: Credit may be applied to the science requirement for high school graduation

This course will cover the basic skills needed by a student interested in a career or hobby related to plant and soil science. Course work features units in careers, plant growth, plant anatomy, flowers, vegetables, and the interrelationship between plants, soil, environment and conservation. Students will explore the growth of their own corn plant and participate in many hands on labs and activities. Students will learn the basics of growing main crops grown in the United States.

Food Science (160) ½ Credit**Grades 9-12 Prerequisite: None****Lab Fee: 15.00****Note: Credit may be applied to science requirement for graduation**

This applied science course studies how food affects our bodies. Students will complete experiments and write papers covering the important factors in the scientific evaluation of food. Students will learn basic scientific information and apply it to foods. Students will also study careers in food science.

Horticulture and Landscape Design (254) ½ credit**Grades 9 – 12 Prerequisite: None****Class Fee: \$10.00**

Horticulture prepares individuals to produce, process, and market plants, shrubs, and trees used principally for ornamental, recreational, and aesthetic purposes and to establish, maintain, and manage horticultural enterprises. Students will learn more about flowering plants, shrubs and trees and what works well in designing landscapes around Platteville. Designing, selecting, and purchasing of floral displays will also be covered and practiced in this course. Students will gain hands-on experience planting flowering plants, the school garden, aquaculture, and performing different forms of plant propagation.

Exploring Natural Resources (258) ½ credit**Grades 9 – 12 Prerequisite: None****Note: Credit for this course may be applied to science requirement for high school graduation.**

This course deals with major concerns affecting our environment and students will be able to work with nature! Hands-on projects such as taxidermy, orienteering, learning about forestry, Wisconsin wildlife preservation and control, deer hunting, waterfowl, resources for recreation, the water cycle, and pollution will be covered.

Agriculture Marketing and Leadership (259) ½ credit**Grades 11 – 12 Prerequisite: Instructor's permission**

This course is designed for students with an interest in advancing their knowledge on current agriculture events and business, but it is also for students interested in becoming better leaders. Students will have the opportunity to meet many different people in agriculture careers, and will also plan many different events in the high school. Units will include: career exploration and planning, interviewing and public speaking skills, citizenship, investments, leadership styles, budgeting, product marketing, commodity marketing, record keeping, and production agriculture.

Biotechnology in Agriculture (350) ½ credit**Grades 10 – 12****Prerequisite: Vet Science or Ag Marketing & Leadership or recommendation from Biology Instructor****Note: This bi-annual course will alternate with Intro to Ag and is offered in the 2016-2017 school year.**

Would you like to learn how to run DNA tests? Do you want to understand how DNA is used to identify diseases and genetics in plants and animals? Interested in trying the processes scientists will use to clone organs and other tissues in the future? Using the latest scientific technologies, students will learn to apply scientific methods of study and standard lab operating procedures through research and hands-on experiments. Students will become proficient in a variety of laboratory skills that are utilized throughout the biotechnology and agriculture industry. This course will introduce students to the historical and technical concepts responsible for the rapidly growing biotechnology industry. Topics include the history of biotechnology applications such as pharmaceutical research and manufacturing, advancements in agricultural productivity as well as identifying the basic techniques and instrumentation used in these applications.

Agriculture Coop Work Experience (455) 1 credit**Grades 12 Prerequisite: Instructor's permission**

This cooperative work experience is designed to develop entry level job skills in agriculture related occupations. This practical course is designed to provide each student with an opportunity to apply for a job and then accept it, in order to gain work experience. The course is intended to provide a minimum of 10 hours per week of work experience. In addition to earning a credit, the students can earn an hourly wage.

Art

Course	Title	Grade			
		9	10	11	12
185	Art 1A	X	X	X	X
287	Drawing		X	X	X
288	Painting		X	X	X
289	Sculpture		X	X	X
384	Pottery			X	X
385	Art Metal			X	X
386	Art for Advanced Students			X	X

Art IA (185) ½ credit

Grades 9-12 Prerequisite: None

Materials fee: 25.00

This is an introductory course intended primarily for freshmen. It emphasizes art concepts basic to all artistic endeavors. Projects will reflect a bit of each art class offered at P.H.S. Student will become familiar with drawing, painting and many shading and color processes associated with these mediums. Required projects include 3-D work in sculpture or ceramics. Graphic arts units develop skills in printmaking and computers. Throughout the course, skills are built in idea formation, grid thinking, and the use of perspective. Some study of art history is also included in this course.

Drawing (287) ½ credit

Grades 10-12 Prerequisite: None

Materials fee: 25.00

Students will experiment with a number of drawing mediums, including pencil, pen, ink, ink wash, colored pencil, oil pastel, chalk pastel, charcoal, markers, scratchboard, and mixed media. Students learn to do open ended problem solving based on projects ranging from the figure, portraits and landscapes, to still life and abstractions. Linear perspective and art history are explored.

Painting (288) ½ credit

Grades 10-12 Prerequisite: None

Materials fee: 25.00

Painting allows students to do in depth study in the use of watercolor, acrylic, and oil paints in a variety of subject matter. Students explore the art of stretching canvas, framing and the use of computer programs to compose their own image ideas. A study of art history is also included in this course.

Sculpture (289) ½ credit

Grades 10-12 Prerequisite: None

Materials fee: 25.00

Sculpture students will create 3-D artwork from a variety of materials ranging from paper, wire, plaster, foam, wood and metal and found objects. Additive and subtractive techniques of sculpting will be the focus for this course. Students will study the work of famous sculptors – past and present.

Pottery (384) ½ credit

Grades 11-12 Prerequisite: None

Materials fee: 25.00

This class explores five of the most common ways pottery can be made. We begin with pinch, coil, and slab hand building techniques. We will also work with the drape or sling method, finally exploring wheel thrown pottery. Students will learn about various decorating techniques and operating the electric kiln. Students will learn to use language devoted to the study of ceramic arts.

Art Metal (385) ½ credit

Grades 11-12 Prerequisite: None

Materials fee: 25.00

Art metal focuses on creating original jewelry from nickel silver, copper and brass sheet metal. Projects are also created from various kinds of wire and found objects. Finally, the art of lost wax casting is studied. Students learn metal working techniques from the design phase, to embellishment of the metal by sawing, texturing, etching soldering and enameling. Students will learn to use language devoted to the study of jewelry art.

Individually Contracted Art for Advanced Students (386) ½ credit

Grades 11-12 Prerequisite: Instructor's Consent Only

Materials fee: 25.00

This course is designed to allow advanced students the opportunity to further develop their skills and interests in specific areas of art course work. Students will contract on an individual basis with the instructor in project areas that fall under one or more of the following: drawing, painting, pottery, sculpture or art metal. This course may be retaken with a change in project subject matter and materials to further enhance student development. This course is designed for students intending to continue their studies in art after graduation

Business and Marketing

Course	Title	Grade			
		9	10	11	12
190	Computer Literacy & Applications	X	X	X	X
191	Computer Literacy & Applications II	X	X	X	X
194	Entrepreneurship	X	X	X	X
290	Introduction to Marketing & Entertainment		X	X	X
291	Sports & Entertainment Marketing		X	X	X
295	Hillmen Outlets			X	X
390	Accounting			X	X
491	Advanced Business Topics				X
495	Business Occupations Work Experience				X

Computer Literacy and Applications I (190) ½ credit

Grades 9-12 Prerequisite: None

This course enables students to enhance proficiency with Microsoft Office products including, but not limited to, keyboarding skills, basic formatting of business and personal letters, preparing business reports, creating a resume, constructing letterhead stationery, understanding concepts related to spreadsheet and database applications, email procedure and etiquette, desktop publishing applications, and file organization. Concepts learned will be applicable to documents used in high school, vocational, universities, and the employment field.

Computer Literacy and Applications II (191) ½ credit

Grades 9-12 Prerequisite: Computer Literacy and Applications I or Consent of Instructor

This course concentrates on advanced technological communication, which includes establishing a blog and learning how to be a good blogger, understanding and creating Wikispaces, and developing podcasts and podcast. Concepts learned will be applicable to communications used in post-secondary education and employment.

Entrepreneurship (194) ½ credit

Grades 9-12 Prerequisite: None

Business ownership can be a challenging, exciting, and rewarding way to make a living. This course will help you to understand the risks, skills, and knowledge to create and run a successful venture. The study of entrepreneurship will provide you with the exercises and information to help you prepare to become a business owner. The skills and processes you learn will help you in any future job you obtain. Knowing more about the businesses you patronize will also benefit you as a consumer.

Introduction to Marketing and Entertainment (290) ½ credit

Grades 10-12 Prerequisite: None

This course will include foundational marketing concepts, including product promotion; advertising; retail marketing; sports and entertainment marketing; global marketing; and marketing management. Students will create and market a product as a culminating project. **This course will be a prerequisite for any future marketing courses.**

Sports & Entertainment Marketing (291) ½ credit

Grades 10-12 Prerequisite: Introduction to Marketing & Entertainment (290)

Note: This bi-annual course will be offered in the 2016-2017

This course examines the market-drive sports and entertainment industries. Concepts and strategies related to the following will be covered: college, amateur, and professional sports; marketing products and services through sports; public images; entertainment industry; marketing entertainment; recreational marketing; careers in sports and marketing entertainment; and, legal issues for sports and marketing entertainment.

Hillmen Outlets (295) ½ credit

Grades 11-12 Prerequisite: Entrepreneurship or Introduction to Marketing (290). Must also submit an application (available from Business & Marketing instructor).

Hillmen Outlets is a school-based enterprise (school store) where students will offer products for sale to the school and general population. Class members will be involved in the general management, marketing, merchandising, recordkeeping, and operations of a retain business through a practical approach. This course requires the student to examine his/her work ethic.

Accounting (390) 1 credit

Grades: 11-12 Prerequisite: None

Note: Students are eligible for dual credit at Southwest Tech for this class at no cost to the student.

This year-long course is meant to be an introduction to the lucrative world of accounting and is highly recommended for anyone interested in any business field, including owning their own business or pursuing further academic study in business related subject matter. Students will complete the accounting cycle and learn to maintain all financial records for sole proprietorships and merchandising businesses organized as a corporation.

Advanced Business Topics (491) ½ credit

Grade: 12 Prerequisite: None

This course will accompany the Business Occupation Cooperative Work Experience and will focus on job opportunities in the business field, business careers, and obtaining jobs in the field. Students will prepare a business related resume, and gain an understanding of the application and interview process in the field.

Business Occupations Work Experience (495) 1 credit

Grade: 12 Prerequisite: Must be enrolled in Advanced Business Topics

The cooperative work experience program provides students an opportunity to apply the skills and knowledge they have gained in their business courses while gaining valuable work experience as they are employed at a local business. The students in this program may work an average of 10-20 hours per week. Students earn one credit for their year's work experience and an hourly wage.

English

Course	Title	Grade			
		9	10	11	12
101	English 9	X			
201	English 10		X		
301	English 11			X	
303	English and Technology			X	
304	AP Language and Composition			X	
401	English 12				X
403	Technical Communications				X
404	AP Literature and Composition				X

In addition to the above required core English courses, our English Department offers many elective English courses. These courses include the following:

Media Literacy (203), Creative Writing (501), Speech & Drama (502), Writing for Publication (504), Newspaper (505), Yearbook (506)

English 9 (101) 1 credit

Grade 9

Students will read several pieces of literature, as well as respond to these works through writing, testing, and a variety of creative projects. Students will work on their grammar, usage and composition skills, and technology use is a part of several units. Throughout the year, students will practice writing five-paragraph essays and will also complete a variety of formal and informal speaking activities.

English 10 (201) 1 credit

Grade 10

English 10 combines all aspects of communication—reading, writing, listening, and the media. The reading of novels is emphasized, as well as plays and poetry. Students study and use the writing process at length before moving on to research, persuasive, and creative writing. Grammar and the mechanics of writing are included. Students engage in a variety of formal and informal speaking and listening activities. Special units include career exploration, group problem solving, and video production.

Media Literacy (203) ½ Credit

Grades 10-12

This course is designed to introduce students to the way narratives are shaped by the conventions and constraints of specific media forms including selected novels, shorts stories, plays, film, television and nonlinear multimedia. Visual media is a prominent part of today’s culture and this course would enable students to interpret a written work and determine how best to visually communicate the message and themes.

English (301) 1 credit

Grade 11

This course focuses on preparing students for English 12-401. Students enrolled in this course are generally planning to attend a four-year college after graduation. They will develop their skills in English grammar, usage and vocabulary; write a variety of compositions; and study the progression of American literature. Writing skills follow the development of the paragraph to the five-paragraph essay. Other writing skills include research, persuasion, resumes, and letters of application. Basic language usage and communication skills are stressed through college preparatory reading, writing and speaking.

English and Technology (303) 1 credit

Grade 11

This course will focus on the integration of English, technology and word processing skills. Students will study and apply various skills learned throughout the following units of instruction: technology, American Literature, grammar and writing skills, word processing skills, and an exploration of applied reading comprehension, speaking and writing as they relate to the world of work.

Note: English & Technology (303) does not meet admissions requirements for a UW school. This course is meant to be taken in succession with Technical Communications (403) as a senior with advanced standing credit at a Wisconsin technical college only.

AP Language and Composition (304) 1 credit

Prerequisite: Students should meet at least two of the following criteria: English teacher recommendation, 3.5 GPA, qualifying WKCE or MAPS score.

This alternative to the English 11 course is a combination of the first semester of the 301 course with an Advanced Placement emphasis for second semester. The course will strengthen students' composition skill, as they will learn to critically read and respond to literature, developing an arsenal of writing strategies. It is possible for students to receive college English credit at most post-secondary schools if they pass the optional national Advanced Placement Language and composition exam which is given in May. Specific summer assignments are expected and students in the class must enjoy reading and writing and want to work to improve their skills, for they read and write more than double the amount of material as those students in English 301.

English 12 (401) 1 credit

Grade 12

English 12 challenges the four-year, college-bound student to read and respond widely and deeply to literary and informational texts in order to foster a deeper understanding of the human experience and to prepare for the demands of college and the 21st century. Students will use a variety of thinking strategies to analyze, understand, and create text for personal enrichment, inquiry, and problem solving. They will collect, analyze and cite specific evidence from text, formulate questions, construct arguments, make decisions, and change thinking. Students will also be expected to obtain, analyze, and synthesize information from a variety of resources to express information, change perspectives, clarify thinking, and make informed decisions. Above and beyond the regular coursework, students will be expected to regularly read a book from the college-bound reading list.

Technical Communications (403) 1 credit

Grade 12

This course will build on skills taught in English and Technology. Students will develop technical reading, writing, and speaking skills, using computer technology as often as possible. This course is intended to benefit serious students who plan to attend a vocational/technical school. Students who maintain an **85% average** for all four quarters may earn advanced standing credit for any **one-year program** at a Wisconsin technical college. Highly motivated students may even be invited to take a test on campus to earn further credits toward any two-year program at SWTC. Units may include employment communication, informative reports, incident reports, various analytical reports, researched reports, informal/formal proposals and presentations, technical reading, and traditional grammar.

AP Literature and Composition (404) 1 credit

Grade 12

AP Literature is specifically designed for the extraordinarily strong English student who loves to read and interpret literature. Students who select the AP course should expect to read novels over the summer in preparation for the course and then be prepared to spend one to two hours every night on AP literature assignments during their senior year. Students must also have very strong writing skills including grammar and mechanics. The ultimate goal for students is to take the Advanced Placement test in the spring. Successful performances of the test will earn students' college credit. As a result, the course is designed to prepare students for this test as well as to provide the opportunity to read, write, and analyze literature at a college level. A wide variety of short stories, novels, plays, and poetry will be used throughout the year. **Students who are considering this challenge should have at least a 3.50 GPA and/or a strong PSAT score on the verbal portion of that test.** Students who maintain an **85% average** for all four quarters, including the final exam, will earn "Advanced Standing" for any **two-year** program at a Wisconsin technical college.

Creative Writing (501) ½ credit

Grades 10-12

This course explores various genres of writing, such as personal essays, poetry, short stories, plays and children's books. Students study notable creative writers and their methods, keep a journal, turn in weekly writing projects, and share their work occasionally with the class. Venues for possible publication are explored, and a major writing project presentation is required at the end of the semester on exam day.

Speech & Drama (502) ½ credit

Grades 11-12

The main objectives of this course are for students to build upon public speaking and performance skills acquired in English 9 and be exposed to several aspects of the communication process. Students participate in several individual and group speaking activities, produce a creative drama presentation, and critically evaluate themselves and other performers throughout the semester.

Writing for Publication (504) ½ credit

Grades 9-12

Prerequisite: Permission of Instructor

Students learn about journalism, and prepare to produce two of the school's publication, the PHS Voice (school paper) and the Tailings (school yearbook). An emphasis is placed on learning by doing. Students have opportunities to learn news writing, copy work, layout design, advertising and photography.

Newspaper Publications Staff (505) ½ credit (Year-long class that meets every other day)

Grades 10-12

Prerequisite: Introduction to Writing for Publication (504) and consent of instructor

This publications course is a production course where students design and produce a monthly school newspaper, The PHS Voice. Students will be involved with all aspects of production, including layout design and original writing.

Yearbook Publications Staff (506) ½ credit (Year-long class that meets every other day)

Grades 10-12

Prerequisite: Introduction to Writing for Publication (504) and consent of instructor

This publication course is a production course where students design and produce our yearbook, Tailings. Students will be involved with all aspects of production, including advertising, sales, layout design, and original writing.

Family and Consumer Sciences

COURSE	TITLE	GRADE			
		9	10	11	12
161	Foods and Family	X	X	X	
162	Fashion Careers	X	X	X	X
163	Exploring the Housing Industry	X	X	X	X
164	Family and Jobs	X	X	X	X
167	Creative Careers in FACS	X	X	X	X
264	Family and Society		X	X	X
265	Parents and Children		X	X	X
361	Food Service				X
392	Personal Finance			X	X

***Pro-Start is a program sponsored by the National and Wisconsin Restaurant Associations. Students interested in exploring food service as a career can take a series of courses and tests that may enable them to receive up to 12 credits in a food service program at an accredited university. Students interested in Pro-Start should take Foods and Family (161) and Food Service (361).

Foods and Family (161) ½ credit

Grades 9-11 Prerequisite: None

Lab Fee: 25.00

This course helps students relate to food in terms of their own well-being and analyze traditional patterns of eating in their home and in society. Emphasis will be put on the U.S. Department of Agriculture guidelines for healthy eating. Cooperation will be encouraged and learned through group work and labs in food preparation. By taking this course and passing the Pro-Start year one test, students will start the cycle of advanced standing in the Pro-Start program.

Fashion Careers (162) ½ credit

Grades 9-12 Prerequisite: None

Note: This bi-annual course will alternate with Exploring the Housing Industry (163) and will be offered in the 2016-2017 school year.

This course expands knowledge and techniques within the textiles and fashion industry. Fashion design, manufacturing, promotion, merchandising, entrepreneurship, and displays will be studied. New trends in the fashion industry will be emphasized.

Exploring the Housing Industry (163) ½ credit

Grades 9-12 Prerequisite: None

Note: This bi-annual course will alternate with Fashion Careers (162) and will be offered in the 2017-2018 school year.

This course explores the worldwide housing industry and how it relates to the family. Topics include career opportunities within housing development, home furnishings, and interior design.

Family and Jobs (164) ½ credit

Grades 9-12 Prerequisite: None

Note: This bi-annual course will alternate with Family and Society (264) and will be offered in the 2017-2018 school year.

Family life, job life, and citizen life are intertwined, and this class helps students to recognize the influence each has on the other and on career decisions. Students will gain an insight on families and jobs in our society.

Creative Careers in FACS (167) ½ credit

Grades 9-12 Prerequisite: None

Course Fee: \$15.00

This course will provide the student an orientation to the world of work. Students will research and develop a FACS related career. Units of study include basics of FACS, career exploration, overview of careers available in FACS, applying and interviewing, and the relationships between employee, employer, and co-workers.

Family and Society (264) ½ credit

Grades 10-12 Prerequisite: None

Note: Credit may be applied to social studies requirement for graduation.

Note: This bi-annual course will alternate with Family and Jobs and is offered in the 2016-2017 school year.

This course develops positive attitudes and behaviors in interpersonal relationships. Emphasis is placed on decision-making, communication skills, changing roles and lifestyles, living single, marriage preparation, planning and preparing for a family, responsibilities with marriage and management of a home and career.

Parents and Children (265) ½ credit

Note: Credit may be applied to social studies requirement for graduation.

Grades 10-12 Prerequisite: None

Course develops self-understanding and the understanding of young children. Topics range from making the decision to be a parent to physical development of a child to basic childcare skills. This class helps students to recognize responsibilities of being a parent and prepares them for working with children through use of labs, lectures, speakers, and films. A pre-school is operated to provide practical learning experience.

Food Service (361) ½ credit

Grades 12 Prerequisite: Foods and Family (161), instructor's permission, and application

Lab Fee: \$25.00

Promotes an understanding of the food service industry and prepares students for entry level and/or advanced education in management, production, and service in institutional, commercial, and privately owned food establishments or other food and hospitality industries. Study includes learning advanced specific language and skills with a variety of specialty foods such as soups, baker, sauces and more. Students will prepare food for public consumption. Knowledge of basic skills for the food service industry will be a requirement for advancement in this course. Catering is also a part of this course. At the end of this class, the student will be given an opportunity to take the Pro-Start year two test, which may lead up to advanced standing in a technical college or certain four-year universities.

Personal Finance (392) ½ credit

Grades 11-12 Prerequisite: None

This course will provide students with a greater understanding of and ability to manage their personal finances now and as they make the transition to the adult world. Students will learn about both online and traditional products and services for use in managing their money.

Mathematics

Mathematics is a unique sequence of courses, different from other departments in that it is very sequential. Our goal is to provide students with challenging options that prepare them for their future while maintaining their confidence as learners of mathematics. Success in the next course depends on success in the previous course. The foundation must be solid before the next layer is ready to be constructed. For this reason, it is very important that mathematics courses are chosen based on student aptitude and achievement, not social pressures or expectations.

So, what does this mean? If, and when, a student struggles with a semester of mathematics, the decision regarding their next step should be carefully considered. Students who fail a semester of mathematics should not register for the subsequent course. While most colleges require Algebra II for admission, it is first critical that college-bound students have a solid foundation in Algebra I concepts. While a student still earns credit toward graduation with a “D” grade, this is not a good omen for future success in mathematics and we do not advise students to move directly on to Geometry. Repeating Algebra is a reasonable option. Even a “C” should prompt this consideration. It is advisable to have a conversation with your math teacher before moving on to the next course. Other data that might prove to be helpful would include the ACT Aspire results.

Whatever the student’s level of mathematical knowledge, course choices should not be automatic, but should be made with thoughtful consideration of the student’s readiness. **Our best advice – consult your latest math teacher.**

Three years of mathematics are required for graduation from Platteville High School. Algebra I, Geometry, and Algebra II are required for admission to a university. Students should pick a math program consistent with their vocational needs and ambitions. For those desiring to be ready for university requirements, some suggested options are given in the table below.

Grade 9	Algebra Support	Algebra I	Geometry
Grade 10	Geometry	Geometry	Algebra II
Grade 11	Technical Math	Algebra II	Pre-Calculus
Grade 12		Pre-Calculus	Calculus

Algebra I (131) 1 credit

Grades 9-11

Algebra is the foundation for further study in the field of mathematics and science. Algebra I is a comprehensive course in first year algebra. The course includes a study of the real number system. The solution of equations and problem solving will be emphasized.

Algebra Support (135) 1 elective credit

Grades 9-12 Students must be assigned to this course based on test scores and previous achievement.

This course will have a limited enrollment and is designed to provide additional support for selected students who are concurrently enrolled in Algebra I. Students must be nominated to this course based on past mathematics grades, ACT Aspire results, or STAR test scores and/or teacher recommendation.

Geometry (230) 1 credit

Grades 9-12 Prerequisite: Algebra I

Geometry is the basic study of size, shape, position, and other properties of the objects around us. It uses proof; a system of thought in which a few basic statements are used to discover and prove results by logical reasoning.

Algebra II and Trigonometry (330) 1 credit**Grades 10-12 Prerequisite: Geometry (230)**

This is a challenging course; therefore, we as a Mathematics Department recommend that a student earns at least a “C” or higher in both Algebra I and Geometry before enrolling in this class.

This course reviews the concepts and skills covered in Algebra I. It provides an understanding of fundamental concepts of intermediate algebra and trigonometry. These include the real and complex number systems, solution of equations, inequalities, and systems of equations and inequalities through quadratics, graphing, functions, solutions of triangles, identities, and solution of trigonometric equations. The TI-84 Plus Silver graphing calculator is required for this course. Calculators may be rented from PHS on an annual basis.

Advanced Algebra Topics (331) ½ credit**Grade 12 Prerequisite: Successful completion of one semester of Algebra II/Trigonometry (330), or instructor’s consent**

This course is designed for senior students planning post-secondary education, most likely in a four-year setting, who desire a serious college readiness math experience. It not only offers an opportunity to solidify math skills basic to success in college math, but also provides a solid review of math concepts found on college placement tests taken by students in the spring of senior year.

This course is primarily intended to serve students who fit one of the two following criteria:

- (1) Seniors who pass the first semester of Algebra II/Trig (330) with minimal success, proceeding into 2nd semester is not recommended, and another semester of academic math is needed for college admission.
- (2) Seniors who successfully completed Algebra II/Trig (330) as juniors were not sufficiently prepared to take Pre-Calculus and want to take advantage of a senior math experience prior to entering college.

Technical Math (333) ½ credit**Grades 11-12 Prerequisite: Previous math class**

Students who successfully complete this course with 85% or better are eligible to receive advanced credit standing at a Wisconsin technical college by passing a placement test.

Pre-calculus (430) 1 credit**Grades 11-12 Prerequisite: Algebra II and Trigonometry (330)**

This course is designed to provide a firm foundation for the student whose next course is calculus. It includes the study of all kinds of functions, sequences and series, matrices and determinants, vectors, polynomials, a review of trigonometry, and a fairly large concentration of analytic geometry. The TI-84 Plus Silver graphing calculator is required for this course. Students must provide their own calculator.

AP Calculus AB (431) 1 credit**Grade 12 Prerequisite: Pre-calculus (430)**

Calculus is the mathematics of change and motion, with a strong emphasis on applications. One of its main objectives is to develop procedures for finding maximum and minimum conditions. This course will adequately prepare the student to successfully take the Advanced Placement Test in calculus. By passing the AP Exam, the student will receive credit for one semester of college calculus.

Music

Choralaires (182) ½ credit

Grades 9-10 Prerequisite: Prior singing experience recommended.

Students will study the basic principles of good vocal technique, music theory, music history, composition, and elements of music reading. Repertoire will be selected from a variety of styles and will be performed at concerts in the fall, winter, and spring.

Beginning Guitar (280) ¼ credit (semester long course meeting every other day)

Grades 10-12 Max Enrollment: 12 students per semester

Learn guitar basics to accompany yourself or start your own garage band. Instruction is on nylon-strong classical guitar (provided) and transfers to any instrument or style of music. Students will learn to play chords (rhythm) using strumming, finger-style and pick-style. Students will learn to play melody (lead) reading both standard notation and tablature. Beginning Guitar is a general music course, not a performance ensemble. Assessments include in-class playing tests and written quizzes.

Platteville High School Band (580) ½ credit (This year long class meets every other day.)

Grades 9-12

Prerequisite: At least two years of study on a wind/percussion instrument or permission from instructor.

Course Fee: \$9.00

The Platteville High School band studies, rehearses, and performs a variety of wind band literature ranging from moderate to difficult levels. Performances take place throughout the school year in the areas of concert band, marching band, pep band, and many various ensembles. Students receive instruction in both large group rehearsals and individualized lessons. All students enrolled in the PHS Band are performing members of the concert and marching band and all study music theory, history, literature, and composition through performance on their wind/percussion instruments.

Orchestra Strings (581) ½ credit (This year long class meets every other day.)

Grades 9-12 Prerequisite: Two-year minimum of playing string instrument, unless approved by instructor.

The Platteville High School orchestra studies, rehearses, and performs a variety of string and full orchestral music. Students study musical style, history, technique, and theory as applied to orchestral performance. Students receive both large group and individualized instruction on their instrument. Performances take place throughout the school year.

Orchestra Winds and Percussion (5811) ¼ credit (This year long class meets every fourth day.)

Grades 9-12 Prerequisite: Must be a member of the PHS band and have instructor's approval.

The winds and percussion student needs to be confident solo players, as there is often only one person per part. Winds and percussion need to have approval of the instructor prior to signing up for the class. The class focuses on music theory and history as it relates to our performance pieces.

Cantorum (582) ½ credit (This year long class meets every other day)

Grades 11-12 Prerequisite: Two years prior singing experience recommended.

Students will study advanced principles of good vocal technique, music theory, music history, and elements of music reading and composition. Repertoire will be selected from a variety of styles and will be performed at concerts in the fall, winter, and spring.

Music in Theory and Practice (583) ½ credit (1st year students)

Music in Theory and Practice (5831) ½ credit (2nd year students)

This year long class meets every other day

Grades 11-12 Prerequisite: Permission of instructor

This course is designed to present and expand more advanced aspects of music. Students taking this course need to be a member of concert band, orchestra, or Cantorum. Emphasis is placed on music theory, history, ear training, sight singing, and score reading. Also included are fundamentals of conducting, composition, and analysis of all periods of music. Second year music theory students continue their study of music analysis, counterpoint, ear training, arranging, and music composition at a more advanced level.

Physical Education

The emphasis of the physical education program is to provide students with the knowledge and movement experiences to build a strong foundation for living a healthy and active lifestyle. The curriculum will include various lifetime and fitness activities in addition to traditional and non-traditional team and individual sports. Health and wellness concepts will be accentuated and woven throughout the physical education curriculum.

PE 9 (141) ½ credit

Required -- This year long class meets every other day

PE 10 (241) ½ credit

Required --This year long class meets every other day

PE 11/12

(3411) 1st semester, ½ credit

(3412) 2nd semester, ½ credit

One Semester required for graduation – This course will meet every day.

* Students may only sign up for one PE course per semester but may sign up for as many semesters as they would like during their junior and senior years. Course units will be designed to meet students' needs and interests. Students will design and follow a personal fitness plan as part of the course requirements.

Summer School Fit for Life (344S) ¼ credit

Offered to Juniors & Seniors, this course is a rigorous physical education experience and must have instructor's approval to enroll. Class meets 8:30-11:30 AM, Monday-Friday during the first 3 weeks of summer vacation. Attendance will be mandatory. A wide variety of lifetime and fitness activities will be included such as biking, rollerblading, golf, Frisbee golf, sand volleyball, and canoeing. Health and nutrition concepts will also be an integral part of this course.

Physical Education Teaching Assistant (1411TA or 1412TA) ¼ credit

This elective course is available for seniors who have fulfilled all other PE requirements and have an interest in teaching or coaching. Teacher assistants will participate in class and be positive role models for the underclassmen.

Health

Health Education (140) ½ credit

Grades 9-12

Health is a required course if an equivalent course is not taken in 7th or 8th grade. This course brings an awareness of various health-related issues that students will encounter as they go through life. The following units are presented: peer pressure/values/decision-making, emotional health, mental health, alcohol and drug abuse, suicide, and human sexuality.

Wellness 4 Life (340) ½ credit

Grades 11-12 Note: Does not satisfy the health requirement.

Wellness 4 Life is an exciting upper level health course designed to help students become aware of the importance of our personal health and well-being. Health, in some circles, has past been described as the absence of disease. Health is much more than this. Health is a positive approach to taking responsibility for our lives. The term "Wellness", is a way of describing the positive realization that we can achieve optimal levels of health in all areas of our life; physically, emotionally, mentally, socially, and spiritually. Many factors come in to play in influencing our health. The list of factors can be overwhelming; ranging from family members, friends, peers, media, advertising, genetics, culture, and education, just to name a few. The important thing to remember is that we have the power to choose. Our plentiful country allows us many opportunities. Our challenge is to recognize the positive aspects of our society, and to make life choices that can empower us to achieve our ultimate levels of wellness. Units covered in the curriculum will be: Fitness for Life, Nutrition, Sexuality Issues, and Stress Control.

Science

The intent of the science offerings at PHS is to provide students with a foundation in both the physical and biological sciences. Three credits of science are required for graduation and entry into most four year educational institutions. Students are strongly encouraged to take the core curriculum of Biology, Chemistry and Physics. Many of the science classes offered have prerequisite math and science classes required for entry. Outlined below is a suggested sequence of classes along with other science electives. Please note that Principles of Engineering is accepted at most but not all universities for science credit. All other science classes will count toward the college entry requirements.

9 th Grade	10 th Grade	11 th Grade	12 th Grade
Biology	Chemistry Principles of Engineering Human Biology	Physics Principles of Engineering Human Biology	Advanced Chemistry Principles of Engineering Human Biology

In addition to the classes mentioned above, there are several science-related classes students can take to meet their requirements for graduation. Check with the guidance office or the specific post-secondary institution you plan to attend to verify acceptance for college admission.

- Animal Science-153
- Plant and Soil Science-157
- Food Science-160
- Exploring Natural Resources-258

Biology (121) 1 credit

Grades 9-10

Biology is the first course in the Platteville High School science curriculum sequence. This class covers the basics of the study of life as well as the societal implications of recent discoveries in biology. Topics include biochemistry, cell structure and function, genetics, genetic engineering, evolution and ecology. Student activities range from labs and reading assignments to a major project each quarter.

Chemistry (221) 1 credit

Grades 10-12 Prerequisite: Biology and Algebra

Chemistry deals with all the substances that make up our environment and the changes that take place in those substances. Chemistry has two objectives at PHS. One is to give the students a basic understanding of the principles and theories of chemistry as a science. The other objective is to aid the student in using these principles and theories in explaining some of the observable changes in their environment.

Human Biology (222) 1 credit

Grades 10-12 Prerequisite: Biology, Chemistry or Instructor Permission

Human Biology covers the anatomy and physiology of the human body. Students will learn medical vocabulary as they review the cellular processes covered in Biology. You will learn how the integumentary, musculoskeletal, cardiovascular, respiratory, digestive, urinary and immune systems work together to maintain homeostasis. Activities range from experiments to case studies.

Physics (322) 1 credit**Grades 11-12 Prerequisite: Chemistry and Algebra II (or concurrent enrollment)**

Physics is the study of how the Universe works; from the very large to the very small. You will gain problem solving and critical thinking skills and it's guaranteed to get you a better score on the PSAT & ACT! It is full of mind bending 'magical' demonstrations and intriguing concepts. The math prerequisites are included because we will be using sine, cosine, and tangent.

The first semester focuses on particles and the second semester on waves. Within the first semester we will study how we represent motion and acceleration and how forces affect motion. We also will study momentum, energy, and simple machines. The second semester we will discover thermodynamics, waves, sound, light, reflection, refraction, and electricity.

Principles of Engineering (328) 1 credit**Grades 10-12 Prerequisite: Geometry (or concurrent enrollment)**

This is the second course in the Project Lead the Way Sequence. This course will expose students to the important concepts involved with engineering. Students will work on real life case studies that are examples of the type of problems they would be solving in this career. While working on case studies, students will be implementing acquired math and science skills. This hands-on laboratory course will cover the concepts, principles, skills, techniques, and attitudes needed for a career in engineering.

Advanced Chemistry (421) 1 credit**Grade 12 Prerequisite: Chemistry and Physics**

This course is a continuation of chemistry expanding into areas such as reaction equilibrium, redox and electrochemistry, reaction kinetics, industrial chemistry, organic chemistry, and the updated atomic theory. The course is lab oriented with at least two days a week spent in the lab. This course is not designed to replace the college entry-level course. Students will be required to demonstrate an 80% mastery of past chemistry material. Students are also required to provide a guest lecturer in the field of chemistry.

Social Studies

The Social Studies department strives to develop reflective, democratic citizenship within a global context. Students can pursue coursework within the social and behavior sciences, U.S. history, world geography, psychology, Wisconsin history and geography, and politics.

Each student is required to have successfully completed three credits in Social Studies for graduation.

Course	Title	Grade			
		9	10	11	12
111	World Geography	X			
214	American History		X		
215	AP United States History		X	X	X
312	Civics			X	X
313	Wisconsin			X	X
314	AP United States Government and Politics			X	X
315	Global Studies			X	X
413	Introduction to Psychology			X	X
414	AP Psychology				X

World Geography #111 and American History #214 are required of PHS students.

The following are social studies related classes students can take to meet the social studies requirement for graduation from PHS. These courses may not be accepted at post-secondary institutions as meeting social studies requirements for admissions. For college bound students, it would be wise to take these classes only for elective credits. Further descriptions of these courses are located in the Family and Consumer Education section.

These courses include the following: **Family and Society (264); Parents and Children (265)**

World History and Geography (111) 1 credit

Grade 9 Prerequisite: None

This course is required of all freshmen and is designed to help students understand the origins of Western Civilization and gain a global perspective of the world we live in. The first semester of the course will focus on the Ancient Greeks, Romans, Middle Ages, Renaissance, Reformation, Scientific Revolution, and Enlightenment. The second semester curriculum emphasis will shift towards world geography, physical geography, world regions, emerging global powers, and global issues.

American History (214) 1 credit

Grade 10-11 Prerequisite: None

American History is a general survey course of the history of the United States from the time period of European exploration to the present. Emphasis is placed on the following areas pertaining to American history: (1) Geography of the U.S., (2) time periods in American history, (3) concepts and terminology for understanding history, (4) relations with other countries, (5) significant people from our country's history, (6) chronology of events, (7) cause-effect relationships, (8) relationships between the past and the present. This course is designed to help students increase their understanding of America's past history and the world they live in at present.

AP United States History (215) 1 credit

Grade 10-12 Prerequisite: Students will be admitted to the class based on the following criteria: English and Social Studies teacher recommendations, and written application.

This course is designed to provide students with the analytical skills and factual knowledge necessary to deal critically with the problems and materials in United States history. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses.

It is designed for students who seek to waive unspecified college history credits by successfully completing the national Advanced Placement in United States history test upon course completion.

Civics (312) ½ credit**Grades 11-12 Prerequisite: None**

This course emphasizes the principles, functions, organizational structure and problems of United States government today. Students will learn the process of analyzing political, social, and economic issues rationally and objectively. Students will develop civic competence by learning to recognize the purpose of the democratic process, the forces of conflict and compromise, the role of selection and participation, and the adjustment of grievance in a responsible manner within a democratic society. The ultimate goal of this course is active, responsible citizenship.

Wisconsin (313) ½ credit**Grade 11-12 Prerequisite: None**

Wisconsin History is a general survey course available for junior and senior students concerning the history, geography, government, people, and current events impacting the state. The course will utilize many primary sources and challenge students to think like a historian. Major emphasis will be placed on Wisconsin's Native Tribes, fur trading, leading mining, statehood, state government, and local history.

AP United States Government and Politics (314) 1 credit**Grade 11-12 Prerequisite: Students will be admitted based upon the following criteria: English and social studies teacher recommendation and completion of American History.**

This course will give students an analytical perspective on government and politics in the United States. This course involves both the studies of general concepts used to interpret U.S. politics and the analysis of specific case studies. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. political reality. The student will examine six political/governmental themes: Constitutional Underpinnings of United States Government, Political Beliefs and Behaviors, Political Parties and Interest Groups, The Congress, the Presidency, the Bureaucracy, and the Federal Courts, Public Policy, and Civil Rights and Civil Liberties.

Global Studies (315) ½ credit**Grades 11-12 Recommended for Juniors**

This course is designed to broaden student's global perspective, raise awareness of current issues, increase college and career readiness and facilitate the understanding of connections between the global community and students' lives. The course will focus on a study of current events in a global context using perspectives of history and current social norms.

Introduction to Psychology (413) ½ credit**Grade 11-12 Prerequisite: None**

This semester class uses scientific reasoning to explore human behavior and mental processes. Students will examine psychological issues and how these issues impact our relationships with individuals, family, and society. Application of content to real life situations is stressed. Topics include experimental psychology, the brain, learning and memory, personality, psychological disorders, development, altered states of consciousness, and social psychology.

AP Psychology (414) 1 credit**Grade 12 Prerequisite: None**

This year-long, college-level course is designed to introduce students to the scientific study of human behavior and mental processes. Students will explore the historical foundations as well as modern methodology and recent research in the major subfields of psychology. Topics studied include experimentation, the brain, human development, sensation and perception, motivation, emotions, learning, memory and cognition, consciousness, intelligence, personality, social psychology, and psychology disorders and treatment. College credit may be earned by passing an advanced placement test given in May.

Technology and Engineering

COURSE	TITLE	GRADE			
		9	10	11	12
156	Welding & Fabrication		X	X	X
172	Introduction to Engineering Design (PLTW)	X	X	X	X
174	Energy, Power and Transportation	X	X	X	X
176	Explorations in Manufacturing and Construction	X	X	X	X
179	Production Graphics		X	X	X
272	Computer Sciences & Software Engineering		X	X	X
276	Construction Technology		X	X	X
277	Computer Integrated Manufacturing (PLTW)		X	X	X
279	Multi-Media Communications	X	X	X	X
328	Principles of Engineering (PLTW)		X	X	X
372	Civil Engineering and Architecture (PLTW)		X	X	X
376	Woodworking & Design			X	X
379	Photography			X	X

Technology and Engineering offerings are elective courses providing students the opportunity to explore skills and careers in a rapidly advancing technological world. Courses in this department are divided into three areas: Engineering, Manufacturing and Construction, and Communications. Students are invited to sample from each area but will gain the most benefit by understanding the sequences within the areas. Prerequisite courses are essential elements if students hope to take advantage of the advanced level courses offered.

Energy, Power, and Transportation (174) ½ credit

Grades 9-12 Prerequisite: None

This course is designed to provide students with an overview of energy, power, and transportation technologies and their effect on everyday life. Areas of study will include electrical power generation and distribution, fossil fuels and renewable energy resources, nuclear energy, energy conservation, fluid power, external and internal combustion engines and modes of transportation.

ENGINEERING COURSES

(Project Lead the Way)

Project Lead the Way is a program designed to serve students who have an interest in careers that demand either a two or four year course of study with an emphasis in engineering.

Introduction to Engineering Design (172) 1 credit

***May be taken for first semester only if requested.**

Grades 9-12 Prerequisite: None

Note: Students may earn advanced standing credit at a Wisconsin technical college.

This course emphasized the development of a design. Students use computer software to produce, analyze, and evaluate models of projects and/or solutions. Students will study the design concepts of form and function, and then use state-of-the-art technology to translate conceptual design into reproducible products.

Principles of Engineering (328) 1 credit**Grades 10-12 Prerequisite: Chemistry (or concurrent enrollment)****Note: Credit for this course may be applied to the science requirement for high school graduation.**

This is the second course in the Project Lead the Way sequence. This course will expose students to the important concepts involved with engineering. Students will work on real life case studies that are examples of the type of problems they would be solving in this career. While working on case studies, students will be implementing acquired math and science skills. This hands-on laboratory course will cover the concepts, principles, skills techniques, and attitudes needed for a career in engineering.

Computer Science and Software Engineering (272) 1 Credit**Grades 10-12 Prerequisite: Successful completion or concurrent enrollment in Geometry**

This course is a new Project Lead the Way course where students work in teams to develop computational thinking and solve problems. The course covers the College Board's Computer Science Principles framework. The course does not aim to teach mastery of a single programming language but aims to develop computational thinking, to generate excitement about the field of computing, and to introduce computational tools that foster creativity.

Computer Integrated Manufacturing (277) 1 credit**Grades 10-12 Prerequisite: None****Note: This bi-annual course will alternate with Civil Engineering and Architecture (372) and will be offered in the 2015-16 school year.**

This is a course that applies the principles of robotics and automation. The course builds on computer solid molding skills developed in Introduction to Engineering Design. Students use CNC equipment to produce actual models of their three-dimensional designs. Fundamental concepts of robotics used in automated manufacturing and design analysis are included.

Civil Engineering and Architecture (372) 1 credit**Grades 10-12 Prerequisite: None****Note: This bi-annual course will alternate with Computer Integrated Manufacturing (277) and will be offered in the 2016-2017 school year.**

This course provides an overview of the fields of Civil Engineering and Architecture, while emphasizing the interrelationship and dependence of both fields on each other. Students use state of the art software to solve real world problems and communicate solutions to hands-on projects and activities. This course covers topics such as site planning, design and project documentation and presentation.

Engineering Design & Development (377) 1 credit**Grades 11-23 Prerequisite: Introduction to Engineering Design (172) & Principles of Engineering (328)****Note:** This course is part of the Youth Options program and is taught at Southwest Wisconsin Technical College. Students must provide their own transportation.

This is a research course that requires students to formulate the solution to open-ended engineering questions. With a community mentor and skills gained in the previous courses, student create written reports on their applications, defend the reports, and submit them to a panel of outside reviewers at the end of the school year.

MANUFACTURING and CONSTRUCTION COURSES**Welding & Fabrication (156) ½ credit****Grades 10 – 12 Prerequisite: Exploring Manufacturing & Construction (176)****Materials Fee: 10.00**

Students will develop skills in basic welding & metal fabrication. Skills taught include metal shop safety, weld joints, blueprint reading, Oxy fuel cutting, and SMAW, GMAW, and GTAW welding processes. Emphasis is placed on projects, safety, and proper use of tools and equipment.

Explorations in Manufacturing and Construction (176) 1/2 credit**Grades 9-12 Prerequisite: None****Lab Fee: \$10.00/student**

Students will complete introductory projects in the construction, electrical, welding, and metalworking areas. Students will also learn the safe operation of several woodworking and metalworking machines utilized in those respective industries. Students will be expected to measure with precision and accuracy and read a blueprint to fabricate various parts in the shop.

Construction Technology (276) ½ credit**Grades 10-12 Prerequisite: Explorations in Manufacturing and Construction (176)****Note: Student projects are required, and material costs are the student's responsibility.**

This course is designed for those students who would like to continue to explore construction technology. Students will study construction materials and practices. This will be accomplished with a combination of projects and presentations dealing with different aspects of the construction industry. This course has required projects that enhance or develop previously learned skills while introducing new skills associated with residential construction.

Woodworking & Design (376) ½ credit**Grades 11-12 Prerequisite: Explorations in Manufacturing and Construction (176)****Lab Fee: \$10.00****Note: Student projects are required, and material costs are the student's responsibility.**

This is an advanced course in woodworking and students should have a genuine interest in this area before enrolling. Students will design and construct a project of his/her choice. Students will learn new woodworking tools and equipment and further develop safety skills, wood joinery techniques, & finishing techniques.

COMMUNICATIONS COURSES**Production Graphics (179) ½ credit****Grades 10-12 Prerequisite: None****Lab Fee: \$10.00**

This course is designed to teach students basic techniques of preparing mass viewed production graphics. This course involves the extensive use of computers and graphic producing software. Student should have a strong interest in the graphics and printing industry before enrolling in this course

Multi-Media Communications (279) ½ credit**Grades 9-12 Prerequisite: None****Lab Fee: \$15.00**

Students will develop skills related to the production of visual, audio, electronic, and printed media. Students will apply these skills in a variety of projects that enhance the skills developed in the course. Student should be imaginative and self-motivated before enrolling in this course.

Photography (379) ½ credit**Grades 11-12 Prerequisite: Multi-Media Communications (279)****Lab Fee: \$15.00**

This course will take students beyond the “snapshot” stage to be able to critically evaluate their photo taking and printing techniques. Students should have their own digital camera before enrolling in this course. Students should expect a high volume of required photographs and their work to be turned in for evaluation.

World Languages

French I (108) 1 credit

Grades 9-12 Prerequisite: None

The first year of French is the study of basic grammar, vocabulary and pronunciation of the target language. It also includes the study of the countries that speak the language, their customs and their way of life. Activities in this course include singing French songs, passing both written and oral tests, writing short compositions, studying vocabulary, working in pairs and small groups, and participating in classroom activities. Students should show a willingness to speak French in class.

French II (208) 1 credit

Grades 10-12 Prerequisite: French I

Recommendation: Grade C or better in French I

The second year of French is the continued study of the grammar and vocabulary of the target language. It also includes further study of the geography and culture of countries where French is spoken. Conversational ability is expected to improve this year, as is the ability to read and write in the target language. In order to enroll in this course the student should have had at least a C average in French I.

French III (308) 1 credit

Grades 11-12 Prerequisite: French II

Recommendation: Grade B or better in French II

The third year of French includes the study of advanced grammar and vocabulary as well as francophone geography and culture, specifically in Africa. Students will be expected to speak, read and write using the target language. They will also be asked to reflect on current events and be able to articulate their views using the target language. It is recommended that the student had at least a B average in French II to enroll in this course.

French IV (408) 1 credit

Grade 12 Prerequisite: French III

Recommendation: Grade B or better in French III

The fourth year of French is the continued study of advanced grammar concepts and vocabulary. The emphasis of French IV is the study of France, specifically regional geography, history, literature, and current events. Students are expected to use only the target language in class and should show a willingness to participate. In order to enroll in this course the student should have had at least a B average in French III.

Spanish I (109) 1 credit

Grades 9-12 Prerequisite: None

The first year of Spanish is the study of basic grammar, vocabulary and pronunciation of the target language. It also includes the study of the countries that speak the language, their customs and their way of life. Activities in this course include working with CDs in the foreign language, passing both written and oral tests, writing short compositions, studying vocabulary, working in pairs and small groups, and participating in in-class activities. Students should show a willingness to speak the foreign language in class.

Spanish II (209) 1 credit

Grades 9-12 Prerequisite: Spanish I

Recommended C or better in Spanish I

The second year of Spanish language is the continued study of the grammar and vocabulary of the target language. It also includes further study of the geography and culture of countries where Spanish is spoken. Conversational ability is expected to improve this year, as is the ability to read and write in the target language. In order to enroll in this course the student should have had at least a C average in Spanish I.

Spanish III (309) 1 credit**Grades 10-12 Prerequisite: Spanish II****Recommended B or better in Spanish II**

In Spanish III, students continue developing communicative competency in Spanish. Students continue to add to vocabulary, explore more difficult sentence construction, study Hispanic culture, and work with more songs. Hispanic members of the community may be guests. Because reading material includes short stories and poems, students are expected to pass short essay tests on literature. Students should be able to communicate their own ideas in Spanish with some ease, and should be able to accomplish in-class projects in Spanish. Almost the entire course is conducted in Spanish.

Spanish IV (409) 1 credit**Grade 11-12 Prerequisite: Spanish III****Recommended B or better in Spanish III**

After Spanish IV, a student and a native speaker accustomed to dealing with non-native speakers should be able to communicate with ease. Students continue to add to vocabulary, explore more difficult sentence construction, study Hispanic culture, and work with more songs to improve listening comprehension, intonation, and pronunciation. Hispanic members of the community may be guests. Because reading material includes short stories and poems, students are expected to pass short essay tests on literature. Students should be able to communicate their own ideas in Spanish with some ease and should be able to accomplish in-class projects such as making music videos of Spanish songs without using English. Much of the course is conducted in Spanish.

Spanish V (509) 1 credit**Grade 12 Prerequisite: Spanish IV****Recommended B or better in Spanish IV**

At the completion of Spanish V, a student and a native speaker accustomed to dealing with non-native speakers should be able to communicate with ease. The student should even be able to understand some jokes and prose using idiomatic expressions. Students continue to add to vocabulary, explore more difficult sentence construction, study Latino culture, and work with more songs to improve listening comprehension, intonation, and pronunciation. Latino members of the community may be guests. Because reading material includes short stories and poems, students are expected to pass short essay tests on literature. Students should be able to communicate their own ideas in Spanish with some ease, and should be able to accomplish in-class projects such as making music videos of Spanish songs without using English. The course is conducted entirely in Spanish.

Youth Apprenticeship

Grades 11 – 12

Application required –See Mrs. Miles

The classes for the following Youth Apprenticeship programs are taken at Southwest Technical College and may be taken for 1 or 2 years:

- **Auto Collision**

Entry Level Basics
Refinishing and Trim
Panel Preparation and Repair
Structural Analysis and Mechanical Repair

- **Auto Technician**

Automotive Servicing Basics/Vehicle Maintenance
Suspension and Steering I/Engine Performance
Brake Systems I/Suspension and Steering II
Brake Systems II/Engine Performance II

- **Financial Services**

Principles of Depository Institutions
Marketing for Financial Institutions
Operations of Financial Institutions
Business Law and Financial Institutions

- **Graphic Arts and Printing**

Fundamentals of Graphic Arts/Printing
Finishing, Binding, and Distribution
Image Transfer

- **Health Services**

CNA
Career Exploration
First Aid/CPR
60-Hour Nursing Assistant Basic
Medical Terminology 1
Medical Terminology 2
Medical Terminology 3

- **Logistics**

Customer Service Management
Global Purchasing and Logistics
Transportation Basics
Logistics/Quality

- **Lodging Management**

Housekeeping
Front Office
Marketing and Sales
Food and Beverage

- **Tourism**

Customer Sales, Marketing, and Public Relations
Human Resources and Public Relations
Management Operations and Fiscal Resources
Specialized Event Training Programs,
Promotions or Activities

- **Welding**

Welding Basics
Welding Principles and Practices
Cutting Principles
Cutting Practices

Student selecting the following YA programs must take a related PHS course each semester:

- **Business - 1 year only**
- **Drafting and Design - 1 or 2 year**
- **Production Agriculture - 1 year only**

*Note: Above programs are offered, based on enrollment.