

INDIAN PRAIRIE DISTRICT 204
HIGH SCHOOLS
Course Catalog for Program Planning
Graduation Classes of 2007-2010

Procedures Descriptions Registration

also available on line at www.ipSD.org

Advice for Freshman Parents

Dear Parents of Incoming Freshmen,

It is normal to feel some anxiety about a change such as moving from middle school to high school. Students feel it and their parents do, too. Every year high school leaders look at what we do to make that transition successful and confer with the middle schools to try to improve the process. We have asked parents who have one or more students at District 204 high schools to think about what advice they would give to parents of incoming freshmen or to the freshmen themselves. Here is what they said:

"Even though the school seems big, don't be afraid to call the teachers or their department chairs with a concern. They really want to help with your personal concern and will appreciate the call."

"It really helped my three kids to get involved in a fall sport or activity. In sports they start before the school year and it gives them a chance to make friends and break the ice."

"I tried to be aware of my kids' friends and help them pick positive influences. Peer influence makes a big difference."

"Communication. Call the school because no question is too small. Talk with other parents, too, and network with them."

"Clear your schedule because you need time and emotional energy for what's going on with your teen."

"Parents should stay involved and engaged with their kids even though teens are more independent."

"Don't be naive nor over-accusatory. Your kids face the same temptations as everybody else's. It's easy to break a trust and hard to rebuild it."

"Kids should be involved in activities at school, not preoccupied with working. Working doesn't teach them how to manage money. It often allows them to learn how to waste it."

"Don't believe stories about how lenient other parents are. If in doubt, call other parents."

"If students have the ability, they should take the challenging classes. Be realistic. Don't take the easiest path."

We wish you well in your own adjustment to the high school experience and hope these bits of practical advice from fellow parents will help you.

Sincerely,

Dr. Michael A. Popp, Principal, Neuqua Valley High School

James A. Schmid, Principal, Waubonsie Valley High School

Indian Prairie School District 204 Mission Statement and Values

Our mission is: To prepare all students to succeed in an ever-changing world through comprehensive programs and experiences in collaboration with family and community.

We know:

Including and respecting all people strengthens public education

We cultivate a climate charged with enthusiasm for teaching and learning

We challenge all students to reach their potential

Our students must develop the skills to become lifelong learners

Students learn best in a safe and caring environment

Education works best when the entire community participates and shares the responsibility

NEUQUA VALLEY HIGH SCHOOL
Indian Prairie Community Unit School District #204
2360 95th Street
Naperville, Illinois 60564
(630) 428-6000

Dear Students and Parents,

Welcome to Neuqua Valley High School. As we plan for another school year, please take this opportunity to read about the course offerings of each department. We believe that we can provide a challenging curriculum for all of our students and know that they can be successful if we -- staff, parents, and community -- work together with them to attain that goal. As you look through this course guide, I hope you are encouraged by the number of opportunities for exploration found in many classes as well as the promise of an academically rigorous experience. We are committed to providing students with excellent opportunities to learn and grow, but we all know that students must embrace a commitment to excellence as individuals. Our staff is here to support that commitment, and I look forward to watching our students grow in the classrooms as they work to become the best students they can be.

As in the past, orientations will be held for new students at Neuqua Valley High School this summer. Please look in the registration packet for dates, times and other essential details. Guidance availability and dates for any needed schedule changes will be shared as well.

Students, I wish you much success as you plan your course work. This is the first step in building your own individual contribution to academic excellence at Neuqua Valley High School.

Sincerely,

Dr. Michael A. Popp
 Principal
 Neuqua Valley High School

Neuqua Valley High School

Our Mission

We believe in fostering a climate that encourages learning and personal growth.

We value
 a **commitment**
to excellence
 in all
 we do.

We value
active
involvement
 in our school
 and community.

We value
positive
relationships
 between
 one another.

We value **opportunities and challenges** Neuqua Valley offers.

WAUBONSIE VALLEY HIGH SCHOOL
Indian Prairie Community Unit School District #204
2590 Ogden Avenue
Aurora, IL 60504
630-375-3300

Dear Parents and Students:

What an exciting time – the opportunity to select an academic course of action for the upcoming year! We strongly encourage you to spend some quality time together, reflecting on the importance of matching aptitudes, interests, and career aspirations with the various courses available to you. We are extremely fortunate to have such a comprehensive curriculum in all subject areas. Aside from strong core subject offerings, our extensive elective choices also allow for growth and vocational assistance. Please be aware of course sequencing, pre-requisites, and other factors such as NCAA clearinghouse requirements and course rigor expectations for the post-secondary level.

It is important to know that research supports what we intuitively know – the stronger the course load, the better the chance for academic success on standardized tests and, most importantly, success at the college level. We strongly encourage challenging yourself as much as possible (yes, this means you, too, seniors). Guidance counselors will assist you if you have questions about course rigor and long range planning.

Tentative schedules will be distributed in late spring. Guidelines for making final changes will be explained at that time. Your compliance with the timetable is critical to staffing decisions and a smooth transition to the next school year.

Enjoy the process; there is much to think about! If we can help, please contact us.

Continued success,
James A. Schmid
Principal

WVHS Philosophy Statement

Education is a process of life-long learning. Education works best when the entire community shares responsibility for and participates in the process. This dynamic process focuses on the student as an active participant, guided by parents and teachers. We believe that life-long learners, in an ever-changing, interdependent world, should:

- Be functionally and technically literate
- Think independently and critically
- Communicate effectively
- Develop multiple approaches to problem solving
- Work cooperatively with others
- Accept self and others
- Adapt to change
- Recognize and react positively to motivation
- Develop the attitudes and practices for a healthy mind and body
- Respond with compassion and generosity to need
- Think and function creatively
- Cultivate inherent curiosity
- Express self through writing
- Experience the arts
- Practice roles as participating citizens in a global society
- Respect cultural diversity

Students choose courses of study to pursue short-term and life goals. The purpose of the WVHS Curriculum is to promote these values that develop a life-long learner. **(Developed as part of the North Central Accreditation Process, September 1993)**

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Definitions and Procedures

Credit Earned - All credit is awarded on a semester basis. For purposes of graduation, in a year-long course, generally the entire year must be completed for credit to be given; two exceptions (two single semesters of two different year long courses) may be allowed. Forms to withdraw from a year-long course at the end of first semester are available in the Guidance Office. Students cannot sign up for only one semester of a full year course unless they are repeating due to failure.

Course Load - The maximum course load per semester will be six courses plus P.E. The minimum course load is four half credit courses per semester plus P.E. Course loads of less than the minimum are not approved except for cases of more than eight semesters of attendance or for serious student or family illness.

Physical Education - All students must register for physical education for each semester in attendance. Health will be required for one semester during the sophomore year in lieu of physical education.

Early Dismissal/Late Arrival - Seniors who have sufficient credits, and whose courses can be arranged during initial scheduling to fit these special requests, may elect to have early dismissal or late arrival. Written parental permission and counselor approval are required for these options.

Withdrawal from a Course - Both high schools encourage students to complete the courses they start. However, in the event a student wishes to withdraw from a course, the following guidelines will be used. During the first 12 days of the semester, students may drop a class and be placed in a study hall with a parent's permission. From the 13th day through the 12th week, both the parent's and teacher's permission are required. The teacher determines whether the student will drop without penalty or receive a failing grade. From the 13th week through the end of the semester, withdrawals are recorded as a failing grade in the course for the semester. Students who exceed the absence limit may forfeit credit and be withdrawn, with a failing grade, for non-attendance.

Repeating a Course - A student may elect to repeat a course for which he or she has already earned credit in order to increase mastery of the material. The course must be retaken prior to taking the next course in the department's sequence. Although credit will not be awarded twice for the same class, the better of the two grades will appear on the student's transcript. The lesser of the grades will be changed to No Credit and will not affect the student's GPA. If a student repeats a failed course, both grades will remain on the transcript.

Late Enrollment - Students are expected to be in attendance for an entire semester in order to earn course credit. A student who enrolls in school for the first time (i.e. has not attended any school for that semester) after the 12th day of attendance, but before the 21st day of the semester, may earn credit at the teacher's discretion on a course-by-course basis. The student is responsible for making up missed work. Students enrolling without current transfer grades from the 21st day through the end of the semester will earn no credit.

Early Graduation - The opportunity for early graduation is provided for students in the senior year and at the end of the junior year. Seniors must apply for early graduation before November 15, which, if approved, allows for non-attendance in the eighth semester of high school. Mid-year graduates must complete the first semester. Juniors must apply for early graduation before January 15, which, if approved, allows for non-attendance in their senior year of high school. Written application must be made to the student's counselor, stating reasons for the request for early completion. Do not request graduation at winter break. It will not be approved. The application must include a parent's signature. Students graduating early must earn a total of 22 units, completing all course requirements. Only students who complete the 8th semester are eligible for senior honors (e.g. Valedictorian, Departmental Outstanding Senior).

Advanced Placement (AP) and Honors Courses - Because Honors and Advanced Placement course work is accelerated, more sophisticated, and demands a high level of independent effort within a compacted time frame, each department that offers courses with weighted grades has developed recommendations for student success. These benchmarks are indicators of performance levels or standards for the courses and are available from departments offering classes with weighted grades. These benchmarks often include standardized test scores at the 90th percentile and above, teacher recommendation, and grades in previous courses.

If a student meets all three benchmarks, the student should definitely take the AP or Honors course. If the student meets two, the student probably will be successful and we encourage the student to enroll. If the student meets less than two, the student should consider motivation, study skills, and interest before enrolling. For an incoming freshman

in these situations, we encourage the student to review his or her progress with the eighth grade staff on May 1 before making a final decision.

Weighted Grades - In order that class rank and the cumulative grade point average reflect the nature of academic work involved, Indian Prairie School District weights certain high school classes. The following courses are given extra weight: English I H, II H, III AP, IV AP, AP Foreign Languages; AP Micro and Macro Economics, Accounting II, Honors Geometry, Honors Algebra II and Trigonometry, Honors Math Analysis, AP Statistics, AP Calculus, AP Computer Science JAVA, Calculus III, Honors Biology, Honors Chemistry, Honors Physics, AP Physics, AP Chemistry, AP Biology, AP Environmental Science, Honors World History, AP U.S. History, AP European History, AP Psychology, AP Politics and Government, Honors Chamber Strings, Honors Varsity Singers, Honors Wind Ensemble, AP Music Theory, and Auto Servicing.

Course Availability - Since courses are offered based on economic factors and sufficient enrollment, the semester in which a 1/2 unit course shall be offered will be determined after pre-enrollment.

Grade Transfer Policy - When a student transfers from another high school, only courses that we currently weight in our curriculum will be weighted. We accept the previous school's letter grades as the official grades; we will not convert the letter grades to our grading scale. If a student transfers in with numerical grades accompanied by scaled letter grades, we will use the school's scale. If there are no scaled letter grades, then we will use our grading scale.

Schedule Changes - Staffing decisions are based on students' course requests made during the registration process. For that reason, students are urged to consider their selections carefully. Students receive their schedules for the following year prior to summer vacation. This allows time to correct errors and to elect course changes (as space allows) before the end of the school year. No changes will be made to accommodate requests for specific teachers or periods. **The deadline for schedule changes is printed on the registration form.** Only changes that impact the student's ability to graduate on time will be made after that date.

GRADING SCALE

A (91-100)

B (81-90)

C (71-80)

D (65-70)

F BELOW 65

Valedictorian/Salutatorian Policy

We believe that valedictorian and salutatorian honors should recognize both excellence in the form of grades earned and effort in the form of the number of courses taken during the school day.

The valedictorian is that student who, at the end of seven semesters, has earned the highest total grade points (not average) in high school courses taken, excluding courses taken in summer school, through correspondence, in the evening, or otherwise not a part of the scheduled student day at our high schools. A course taken outside these parameters may be included **only if both of the following criteria are met:** 1) The student has already completed our course offerings in that curricular area. 2) The course does not exceed the maximum of 7 courses allowed per semester. The salutatorian is that student with the second highest grade point total. The valedictorian and salutatorian will not necessarily be the top two students ranked by grade point average. In order to receive such senior honors, students must complete the eighth semester.

(Example: A student who took 7 courses each semester, 3 of those weighted, and received straight A's would have 31 grade points each semester ($3 \times 5.0=15$; $4 \times 4.0=16$; total=31). After 7 semesters that total would be 217 grade points. She/he would be valedictorian if that were the highest total. Someone with 216 would be salutatorian.)

[Note: It is important to note that this is not just grade point average. GPA will still be computed because class rank based on grade point average is so frequently requested by colleges.]

Class Rank:

Students are considered for inclusion in class rank as determined by the following criteria:
Students are assessed relative to their performance on curricular course standards.
Students receive grades that are representative of this performance.

Students may be excluded from class rank if they receive significant modifications to course work that substantially change course standards.

Honor Roll - At the conclusion of each quarter, full-time students may qualify for the regular Honor Roll with a GPA 3.25 - 3.59. Students with a GPA of 3.6 or above will be placed on the High Honor Roll.

Indian Prairie Scholar Program

Students who have a cumulative grade point average of 3.60 or above after their sixth or seventh semester of school will be named Indian Prairie Scholars. In order to qualify for the award, students must be enrolled full-time in District 204. Students who receive significant modifications to course work that substantially change course standards are ineligible for this award. In order to enhance chances for college entrance and scholarships, students are encouraged to give service to the community and take advantage of leadership opportunities.

Choices and Conflicts: Exploration Versus Excellence

For freshmen and other underclassmen involved in the beginning levels of school opportunities (e.g. marching band and frosh/soph cross country), we encourage exploration, and the teachers/coaches involved attempt to compromise on the required student commitments when conflicts arise. The more expert or varsity-level participants, on the other hand, are past the exploration phase. At that level, commitment to the activity/team is important to achieving excellence in a way that is fair to all participants. The level of toleration for compromise in conflict situations declines under this guideline as the student's year in school or expertise level increases. Therefore, students may face a choice between staying with one or the other of the school activities. A student who feels caught in an unresolved conflict should see an assistant principal for advice and assistance.

Graduation Requirements

Under normal circumstances, a student will be expected to spend four years in meeting graduation requirements. In order to graduate, a student will be required to earn the following units of credit during his secondary school experience in grades 9-12. The overall school program fulfills the requirements of the State of Illinois, the recommendations and requirements of the North Central Association and the Illinois State Board of Education. District 204's graduation requirements should not be confused with nor considered as college admission requirements.

Graduation Requirements for Classes 2007, 2008		Graduation Requirements for Classes 2009, 2010	
English	4 credits	English	4 credits
Mathematics *	2 credits	Mathematics *	3 credits
Science	2 credits	Science	2 credits
World Geo. or World History **	1 credit	World Geo. or World History **	1 credit
U.S. History**	1 credit	U.S. History **	1 credit
Government **	5 credits	Government **	5 credits
Consumer Education *****	5 credits	Consumer Education *****	5 credits
Physical Education ***	3.5 credits	Physical Education ***	3.5 credits
Health	.5 credits	Health	.5 credits
Driver Education	.5 credits	Driver Education	.5 credits
Vocational Education ****	.5 credits	Vocational Education ****	.5 credits
Basic Requirements	16 credits	Basic Requirements	17 credits
Electives	6 credits	Electives	6 credits
Total Credits Required	22	Total Credits Required	23

State and Federal Constitution Exam Requirements - Students must pass these exam requirements in social studies in order to graduate.

Community Service Graduation Endorsement - All students are encouraged to complete an approved practicum of community service. Those who complete 30 hours of community service will have that accomplishment noted on their official transcript. See counselors for verification forms, details, and ideas for service opportunities and to have service noted on the transcript.

* The new state requirement for mathematics includes one year of Algebra I and one year of Geometry content.

**The Social Studies requirement includes 1 unit of either Honors World History or World Geography, 1 unit of U.S. History or American Studies, and 1 semester of U.S. Government.

***To meet the Physical Education requirement and English requirement, a student must be registered in Physical Education and English for each semester of attendance.

****The Vocational Education requirement may be met by passing any one-half unit course in any of the following departments: Business, Family and Consumer Science, or Applied Technology. Computer Science, Graphic Design, and Technology Center of DuPage classes also meet this requirement.

*****The Consumer Economics requirement by taking either of the Consumer Economics classes, AP Microeconomics or passing the Illinois Consumer Education Proficiency Exam given twice during the year. See the Guidance Office for details.

College Entrance Requirements

Statewide Admission Requirements

The Illinois State Board of Higher Education has adopted minimum subject requirements for public colleges and universities in an effort to help high school students improve their academic preparation for baccalaureate degree programs. WE STRONGLY RECOMMEND THAT STUDENTS TAKE COURSES TO MEET THESE REQUIREMENTS. Students who have not taken the required subjects but wish to enter a baccalaureate degree program may be admitted to public colleges and universities on a provisional basis. Policies for provisional admission are determined by each institution. Such policies include requirements to make up preparation not completed in high school or provisions for opportunities to demonstrate competency in the required subject areas.

Individual public universities and community colleges may have other subject requirements in effect as well as requirements involving test scores and grade point averages. Fundamental level courses may not meet college entrance requirements. Applicants must contact each college or university individually for details about all of its requirements.

The following high school subjects are typically required of freshmen entering community college transfer programs and public universities. Research has shown that students who take courses that match such a pattern generally have higher ACT or SAT scores.

MINIMUM PUBLIC COLLEGE/UNIVERSITY REQUIREMENTS

Minimum Public College/University Requirements	
Subject	Units
English (emphasizing written and oral communications and literature)	4.00
Social Studies (emphasizing history and government)	3.00
Mathematics (introductory through Advanced Algebra, Geometry, Trigonometry, or Fundamentals of Computer Programming)	3.00
Science (laboratory sciences)	3.00
Foreign Language, Music, Art, or Vocational Education (Requirements vary. Check with the University.)	2.00

NCAA Guidelines

In order to earn a scholarship and actually play an interscholastic sport at a Division I or II college, a high school student must earn a certain grade point average in a core curriculum of at least 14 academic courses:

For 2006-2008 Graduates

Four years in English
 Two years in Math (starting with algebra)
 Two years in Social Studies
 Two years in Science (starting with biology)
 Three additional academic courses
 One year of an additional course from English, Math, or Natural/Physical Science

For 2009 and after Graduates, the following requirements change:

Three years of math instead of two
 Four years (instead of three) of additional Core Courses

In addition, students must meet the guidelines for the composite score on the ACT or SAT exams. The NCAA accepts only nationally normed test scores. Results of the state ACT testing are not acceptable for NCAA purposes. Students should see their coach and/or counselor for further details.

Honesty Policy

Belief Statement - We believe that learning best occurs in an atmosphere of academic honesty in which students have developed a high sense of responsibility and exhibit a high standard of integrity. This is accomplished through the cooperative efforts of parents, students and teachers. Although there is a pressure to excel placed on students by the society in which we live, we will not tolerate nor condone academic dishonesty.

Students - It is expected that students will conduct themselves according to the school rules prohibiting cheating and will perform in a manner that reflects their knowledge and acceptance of these rules.

Parents - As partners in the educational process, parents must support the ethical value of honesty and the enforcement of the school's policies on cheating so that an honest school environment is maintained.

Teachers - Teachers are expected to perform their instructional responsibilities in such a manner as to minimize the potential for dishonesty and by being fair and consistent in the implementation of consequences for cheating.

Definition of Cheating/Academic Dishonesty

Cheating occurs when a student obtains, or assists others in obtaining, credit for work that is not his/her own.

Examples of cheating include but are not limited to the following:

Copying from another student's test or helping another student during a test

Providing other students with information regarding a test

Submitting another student's work as one's own

Stealing copies of tests or answer keys

Copying another student's homework, test, quiz, project, book report, assignment, or take home test

Allowing another student to copy a test, homework assignment, quiz, project, book report, assignment or take home test

Plagiarizing or presenting material taken from another source without appropriate documentation

Changing answers on a test, assignment, project, etc. after grading.

Changing grades in a grade book or altering a computer grading program

Using programmable calculators in a manner not specified by the teacher

"Cooperative learning" is a recognized instructional practice. When this practice is acceptable to the teacher for a project or assignment, the teacher must clearly explain this expectation to the students. If not clearly delineated as approved, the copying of homework, papers, tests, quizzes, reports, etc. will be considered episodes of cheating.

Consequences of Cheating/Academic Dishonesty

Cheating on homework or quizzes

1 offense 0% on homework or quiz and placement on probation

Immediate parent contact by teacher

2 offense Failure (64%) for quarter*

Immediate parent contact by teacher

3 offense Failure for semester and withdrawal from class

Immediate parent contact by teacher

Cheating on papers, tests and large assignments (those requiring work of more than 1 day)

1 offense Failure (64%) for quarter*

Immediate parent contact by teacher

2 offense Failure for semester and withdrawal from class

Immediate parent contact by teacher

Cheating on the final exam (or paper/project equivalent)

1 offense Failure (0%) on exam

Immediate parent contact by teacher

If a student profits from assisting another student (i.e. stealing tests and selling them, doing homework or writing papers for money, trading papers), that student will receive an F for the semester in the affected class

*The 64% failure for the quarter is not intended to profit the student caught cheating; if this grade would raise the student's percentage, a lower grade consequence will apply. 65% is a minimum D.

Education To Careers

Indian Prairie's Education to Careers (ETC) and Tech Prep initiatives provide students with a competitive edge. The overall purpose is to prepare for career success in a changing, highly technical, dynamic work place. Participating high schools, community colleges and area employers are jointly offering ETC/Tech Prep Programs.

Beginning with ninth grade, students can choose a general career cluster and educational paths designed to support that choice. As the student progresses, more specific occupational areas can be chosen, and an educational path can be planned for high school courses and the student's continuing education. ETC/Tech Prep experiences integrating courses are increasingly occurring in our curriculum.

ETC/Tech Prep helps students:

See connections between academic and vocational courses;

Learn thinking and problem-solving skills that make them more valuable employees;

Start career preparation while still in high school by taking courses related to a future college major or field of work

Explore general fields to learn where their abilities and interests lie;

Choose a rewarding career path;

See a link between school and work; and

Acquire a lifelong learning foundation.

For further information about linking high school career prep courses to the College of DuPage, Waubonsee Community College, Technology Center of DuPage, students should see their guidance counselor. College credit may be earned during high school by completing certain course sequences.

Off-Campus Courses

Vocational Courses

4072 Technology Center of DuPage - Grade 11-12. Three units, two semesters. Requires year-long commitment by student. Transportation provided by district. District 204 is a member of the DuPage Area Occupation System (DAOES). This membership allows us to access the services of the Technology Center of DuPage (TCD). TCD provides a comprehensive vocational-technical education for high school students whose career objectives are related to vocational-technical fields.

Participation in TCD courses is limited due to enrollment and financial factors. Not all students who request these classes will be accepted. Since the district is making an additional financial expenditure, those students with the greatest likelihood of successfully completing the course will be selected. Applicants will be screened with regard to normal progress toward graduation, regular attendance, punctuality, self-discipline, demonstrated motivation, and teacher-counselor recommendations. Students should see their counselors for details.

Classes offered through Technology Center of DuPage are: Construction Trades, Landscape Design & Management, Manufacturing Technology, Pre-Architectural & PreEngineering CAD, Computer Information Systems, Data Entry Occupations, Office Systems Technology, Graphic Communications, Multimedia & Televisions Production, Certified Nurse Assistant, Medical & Health Care Careers, Auto Body Repair & Refinishing, Automotive Technology, Cosmetology, Culinary, Pastry Arts & Hotel Management, Early Childhood Education & Care, Electronics & Pre-engineering Technology, HVAC/Residential Wiring, Network Technician.

Advanced Courses

District 204 offers a comprehensive curriculum that includes advanced placement courses. Because we have high achieving students, on occasion there are students who exhaust even our comprehensive course sequences before entering the senior year. A student wishing to continue in a subject with an advanced college-level course should discuss that with the counselor. It is important to begin planning early for advanced level courses beyond the core sequences offered in the high school curricula.

Telecommunications courses may be available. Offerings change from year to year. See your counselor for a current list.

Junior Colleges serving District 204 are Waubensee Community College and College of DuPage. Your counselor can help with course catalogs.

Independent study courses are available through some colleges and universities. Students should give strong consideration to whether they have the self-discipline that is vital to completing such a course. Again, your counselor can be a source of information.

Illinois Virtual High School courses are available through the Internet. Course listings are available at www.ivhs.org. See your counselor for details.

Applied Technology Articulated Credit with College of DuPage

If a student attends College of DuPage he/she may receive college credit with the following courses are completed with a grade of B or better. Student must be taking at least one course at COD to be in their system and must also apply for the credit within 2 years of high school graduation.

**Dual credit is automatically added to the hs transcript.

Credit	COD	Grade	NV, WV	Time
2	1101 Architecture	B	4042 Architectural Drafting	2 sem.
4	1110 Auto	B	4052 Auto Mechanics	2 sem.
4	1240 Auto	B	4054 Auto Service	2 sem.
3	1111 CADD	B	4040 Drafting and Design and 4044 Computer Aided Drafting & Design	2 sem.
3 & 2	1121 Digital Microprocessor Tech 1131 Microprocessor Tech	B	4067 Cisco DUAL Credit	1 sem.
3	1122 Digital Microprocessor Tech	B	4067 Cisco DUAL Credit	1 sem.
2	1100 Electronic Tech	B	4060 Electricity	2 sem.

Applied Technology

Steve Skorup, Department Chair - WVHS

Joe Wagner, Department Chair - NVHS

The Technology Department's courses and curriculum revolve around providing students with learning and activities focused on the five areas of technology. These areas are: manufacturing, communication, transportation, energy and power, and construction. The majority of Applied Technology classes require safety glasses that must be purchased by the student. In many Applied Technology classes students make projects that can be taken home. There are materials fees associated with such classes.

Applied Technology Course Listings

Manufacturing and Construction Technology			
Course #	Title	Level	Prerequisite
4020	Introduction to Applied Tech I	Sem. 9	None
4023	Introduction to Applied Tech II	Sem. 9	Intro to Appl Tech I
4030	Woods Fabrication I	Yr. 10-12	None
4032	Woods Fabrication II	Yr. 11-12	Woods Fabrication I
4034	Introduction to Construction	Sem. 10-12	None
4070	Building Trades (3 period block)	Yr. 11-12	Introduction to Construction
Communication Technology			
Course #	Title	Level	Prerequisite
4020	Introduction to Applied Tech I	Sem. 9	None
4023	Introduction to Applied Tech II	Sem. 9	Intro to Appl Tech I
4040	Drafting & Design	Yr. 10-12	None
4042	Architectural Drafting	Yr. 11-12	Drafting & Design
4044	Computer Aided Draft. & Design	Yr. 11-12	Drafting & Design
4270	Television Production I	Yr. 10-12	None
4272	Television Production II	Yr. 11-12	Television I

4273	Television Production III	Yr. 11-12	Television II and Instructor approval
Transportation Technology			
Course #	Title	Level	Prerequisite
4020	Introduction to Applied Tech I	Sem. 9	None
4023	Introduction to Applied Tech II	Sem. 9	Intro to Appl Tech I
4050	Power Mechanics	Sem. 9-11	None
4052	Automotive Mechanics	Yr. 10-12	Power Mechanics or Auto Maintenance
4054	Automotive Servicing (2 per. block)	Yr. 11-12	B or better in Automotive Mechanics or Department Approval
4058	Auto Maintenance	Sem. 11-12	None
Energy Technology			
Course #	Title	Level	Prerequisite
4020	Introduction to Applied Tech I	Sem./Yr. 9	None
4023	Introduction to Applied Tech II	Sem./Yr. 9	Intro to Appl Tech I
4060	Electricity	Yr. 10-12	None
4062	Electronics	Yr. 11-12	Electricity
4065	A+ Computer Repair	Yr. 11-12	Electricity or Department Approval
4067	Computer Networking	Yr. 11-12	A+ Computer Repair or Department Approval
4068	Applied Technology Independent Study	Yr. 12	Level I and II courses in specific area
4497	Professional & Technical Internship	Yr. 11-12	As designated by course sequence or Internship approval of internship instructor

Applied Technology Course Descriptions

Applied Tech courses are year-long, unless noted.

4020 Introduction to Applied Technology I (IAT) Grade 9. One semester. The course is designed to use Project Based Learning (PBL) as the model for teaching and learning. Students will be involved in problem-solving investigations and other meaningful tasks that allow the student to work in groups and/or autonomously to solve problems by developing realistic products. Master projects drive the direction of the course and the student learning. The projects cover one of several major technology sectors while employing an enterprise process to design, build, and market an invention or idea. The technologies introduced are AC/DC Power, CNC Milling Technology, Communication Technology, Desktop Publishing & Graphics, Electrical Systems, Engineering Team Building, Manufacturing Tools, Mechanical Systems & Mechanisms, Pneumatics Technology, Quality Control, and Robotics Technology. A lab fee will be charged. Students are encouraged to register for both IAT courses, but have the option of taking the IAT II course second semester.

4023 Introduction to Applied Technology II Grade 9. One semester. Prerequisite is IAT I. The course is designed to use Project Based Learning (PBL) as the model for teaching and learning. Students will be involved in problem-solving investigations and other meaningful tasks that allow the student to work in groups and/or autonomously to solve problems by developing realistic products. Master projects drive the direction of the course and the student learning. The projects cover one of several major technology sectors while employing an enterprise process to design, build, and market an invention or idea. The technologies introduced are AC/DC Power, CNC Milling Technology, Communication Technology, Desktop Publishing & Graphics, Electrical Systems, Engineering Team Building, Manufacturing Tools, Mechanical Systems & Mechanisms, Pneumatics Technology, Quality Control, and Robotics Technology. A lab fee will be charged. This course is only offered second semester.

4030 Woods Fabrication I Grade 10 - 12. This course is the study of manufacturing technology as it applies to the woodworking industry. Students will display the safe operation of hand tools, power tools, and machinery used in

industry. Students will learn to read and draw blueprints and manufacture a product from those prints. Basic math and measuring skills will be taught as they apply to the industry. A study of trees, wood products, furniture design, fasteners, wood joints, and finishing processes will be covered. Students must purchase supplies. Students will explore possible careers. A lab fee will be charged.

4032 Woods Fabrication II Grade 11 - 12. Prerequisite is Woods I. This course is the study of construction technology and advanced manufacturing technology. Students will be introduced to both CAD (computer aided drafting) and CAM (computer aided manufacturing) to produce blueprints and products. Students will display the safe operation of hand tools and power tools used in the manufacturing industry while completing various projects. Students may compete to qualify for the State VICA competition. Students must purchase wood and project supplies.

4034 Introduction to Construction Trades Grade 10 - 12. One semester. This preparatory course is designed for any student interested in learning about construction technology and/or related fields such as: Architecture, Contracting, Engineering, etc. The student will develop a background in design, preparation, construction and maintenance as it relates to a single-family home. Other career opportunities in construction technology will be explored such as: creating blueprints, surveying, concrete, carpentry, roofing, plumbing, heating and air conditioning, electricity, insulation, siding, drywall, and painting. Safe practices in the use of hand tools and power tools used in the industry will be covered. A lab fee will be charged.

4040 Drafting & Design Grade 10-12. This is a beginning course for the drafts person or engineering student, introducing him/her to drafting fundamentals. The course materials include drafting equipment usage, materials, an introduction to CAD (Computer-Aided Design), and techniques used as a means of technical communications. Drafting techniques are studied and drawings are made with emphasis on the concepts of shape and size description through multi-view and pictorial drawings as they are used in mechanical and architectural drawings. A lab fee will be charged.

4042 Architectural Drafting Grade 11-12. Prerequisite is Drafting and Design. This course covers general techniques, history, home styles, construction methods, planning and drafting layouts, and perspective drawings. The course will be directed both to non-college and college-bound students. A lab fee will be charged.

4044 Computer Aided Drafting Grade 11-12. Prerequisite is Drafting and Design. This course is designed for engineering students and architectural students using the computer. The Auto CAD software will be used. Students will learn to create, store, edit, and plot drawings. They will also learn to set up prototype drawings; create symbol libraries, bills of materials, develop customized screens, and generate 3D models. A lab fee will be charged.

4050 Power Mechanics - Grade 9-11. One semester. This course is an introductory course in the area of gasoline engine operation and fluid power mechanics. The course of study will be divided into approximately 15 weeks of concentration on small two and four cycle engine operations. In Power Mechanics, students will also disassemble, inspect, and reassemble small gasoline engines and will learn about the different types of systems. Students will also be introduced to the operations of automotive engines, automotive maintenance and car design for 3 weeks. A lab and workbook fee will be charged. SAFETY GLASSES required.

4052 Automotive Mechanics - Grade 10-12. Prerequisite is Power Mechanics or Auto Maintenance. This is a lecture/laboratory course designed primarily to prepare students for job entry or advanced training in automotive service. The students will develop a background in the design, operations, and troubleshooting procedures of the gasoline engine, and other related components of the automobile such as the transmission and drive line, brake and electrical systems, disassembly, identification of parts, use of test equipment, service manual, shop safety. Laboratory procedures will be covered. SAFETY GLASSES of the spectacle-type and coveralls are required. A lab and workbook fee will be charged.

4054 Automotive Servicing - Grade 11-12. Two periods, all year. Two credits. Weighted grade. Prerequisite is B or Better Auto Mechanics or Department Approval. This is a lecture/laboratory class designed to give the automotive student a deeper and enriched background in automotive suspension, alignment, brakes, tires and wheels, drive line, and engine and electrical system. The use of tools, test equipment, service manuals, shop safety, and laboratory procedures will be covered. This course requires two periods. SAFETY GLASSES are required. A lab fee will be charged.

4058 Automotive Maintenance - Grade 11-12. One semester. This course is designed for both male and female students of District 204 who wish only to gain some basic knowledge and maintenance skills for maintaining automobiles. This course covers the following areas in automotive maintenance: body maintenance, engine tune-up, lubrication maintenance, electrical maintenance, tires and wheels, drivetrain maintenance, and seasonal maintenance procedures. Students are not permitted to enroll in this course after completing Auto Mechanics. A lab and workbook fee will be charged.

4060 Electricity - Grade 10-12. This course is designed to acquaint the student with the fundamental theory behind direct and alternating current electricity, common electronic equipment, and electric circuits. Laboratory practice, discussion, and experiments will be part of the course. Simple DC and AC electrical components, motors, generators, inductors, and capacitors will be studied and manipulated to show effects of circuit variables. Each student will be required to construct a simple electrical device. This device may be purchased through the school or any commercial electronics store. A lab fee will be charged.

4062 Electronics - Grade 11-12. Prerequisite is Electricity. This course is designed to acquaint the student with fundamentals of electronic communication, amplitude modulation, frequency modulation, receivers, and transmitters. Solid-state circuitry and solid-state electronics are also introduced. Laboratory practice, discussion and experiments will be part of the course. In this lab the student will be required to construct an electronic device which may be purchased through the school or any electronics store. A lab fee will be charged.

4065 A+ Computer Repair – Grade 11-12. Prerequisite is Electricity. Students interested in building and servicing PC computers should be directed to this class. The latest software and hardware will be utilized to teach students to troubleshoot computers and repair or upgrade them as well.

4067 Computer Networking – Grade 11-12. Prerequisite is A+ Computer Repair or Department Approval. This course introduces students to the fundamentals of computer networking through lectures and hands-on labs. Students will gain a basic understanding of how a network is built, maintained, and upgraded. Students will have an opportunity to program routers, switches, and set up a wireless network.

4068 Applied Technology Independent Study - Grade 12. Two periods, all year. Prerequisite is completion of Levels I and II in an area. This course is for seniors who have successfully completed level II courses and have the desire to advance in a specific area such as Woods, Automotive, Electronics, or Drafting.

4070 Building Trades - Grade 11-12. Three periods, all year, off site. Prerequisite is Intro to Construction. This course is designed to provide students hands-on experiences in learning about construction technology and/or related fields, such as architecture, general contracting, and engineering that will empower students to enter employment and/or further education and training. Construction includes building a single-family home that will be sold to the public upon completion. Other career opportunities in construction technology, such as surveying, concrete, roofing, plumbing, H.V.A.C., electricity, insulation, siding, drywall, and painting will be covered during the course of the project. Areas such as soil testing, waivers and liens, safety, legal liabilities, and sales and marketing will also be covered. This year-long course will meet daily for three class periods and will require the student to provide transportation to and from the site. A lab fee will be charged. This course is offered through a partnership with Aurora East High School District 131. Construction sites will be in the Aurora area.

4270 Television Production I - Grade 10-12. Year. This course is a skill-level course designed to provide students with the skills needed for a career in the technical aspects of television broadcasting. Instruction will include camera operations, basic audio and video editing, sound and lighting techniques and audio mixing. Students will learn the operation of video and DVD recording equipment, video/digital cameras, microphones, lighting/grip equipment and other production equipment used in the video and audio production of television programs.

4272 Television Production II - Grade 11-12. Year. Prerequisite is TV I. This course is a skill level course for students who have successfully completed Television Production I. In addition to expanding on the activities explained in the first course, students will work in a team-based environment to create a variety of video and audio related productions. Instruction will include single and multi camera operation, linear and nonlinear video editing, pre-production, production, and post-production processes, and audio mixing. Students will learn how to use digital editing equipment and software to electronically cut and paste video and sound segments together as well as how to regulate and monitor signal quality, strength, and clarity.

4273 Television Production III - Grade 11-12. Year. Prerequisite is TV II. This class is designed as an independent study for students who have completed TVII and who wish to improve their production skills by working on approved projects of their choice. An "A" or "B" average in TVII and approval from the instructor is required before registering for this class.

4497 Professional and Technical Internship - Grade 11-12. Two semesters. Two periods. Individualized program. This program serves as the last course in a sequence of Applied Technology courses. Sequenced courses include the following: Automotive Servicing, Architectural Drafting, Computer Drafting, Electronics, and Woods II, and TV. Other courses may qualify. Please see instructor or department chair. A student will receive one credit for classroom

instruction and one credit for on-the-job-training. The internship instructor will assist with job placement and monitor student progress throughout the year. Early dismissal is not a requirement for this program.

Art

Andrea Hendrickson, Department Chairperson - WVHS

Charles Staley, Department Chairperson - NVHS

The District 204 Art Program seeks to provide a variety of experiences in the visual arts that enable our students to appreciate and enjoy art; to help guide life and career choices they will be making during their high school tenure; to prepare them for further study in art; and to increase their understanding of an increasingly visual world. In most art classes, students will make projects that can be taken home. There are material fees associated with such classes payable at the start of class.

Art Course Listings

Personal Courses			
Course #	Title	Level	Prerequisite
4301	2D Art Encounters	Sem. 9-12	None
4303	3D Art Encounters	Sem. 9-12	None
4304	Printmaking	Sem. 10-12	2D Art Encounters and Drawing I
4306	Computer Graphics I	Sem. 10-12 *	None
4308	Computer Graphics II	Sem. 10-12	Computer Graphics I
4310	Drawing I	Sem. 9-12	2D Art Encounters
4312	Drawing II	Sem. 10-12	2D Art Encounters & Drawing I
4314	Drawing III	Sem. 10-12	2D Art Encounters & Drawing II
4321	Painting I	Sem. 10-12	2D Art Encounters & Drawing I
4322	Painting II	Sem. 10-12	2D Art Encounters & Drawing I
4330	Ceramics I	Sem. 9-12	3D Art Encounters
4332	Ceramics II	Sem. 10-12	3D Art Encounters and Ceramics I
4334	Ceramics III	Sem. 10-12	3D Art Encounters and Ceramics II
4340	Jewelry	Sem. 10-12	2D or 3D Art Encounters plus another semester of Art
4360	Art Independent Study (AIS)	Sem. 11-12	Minimum of 4 semesters of art, and Instructor's approval with portfolio review
4364	AP Studio Art	Yr. 12	Mandatory Teacher Recommendation

Art Course Descriptions

All Art Courses are one semester. 2D or 3D Art Encounters fulfills the prerequisite requirement for all art classes, except Computer Graphics I. Seniors are exempt from 2D and 3D. Level I requires Art Encounters. Level II or III require previous level(s).

4301 2-D Art Encounters – This is an introductory level course for high school art. Students will learn how to utilize the elements and principles of design, while being exposed to a variety of materials and techniques. Students will focus on developing and refining these skills in the area of drawing, painting, printmaking and a variety of other two dimensional art media. This course is a prerequisite for Drawing I, Painting I, Printmaking, and possibly Jewelry. Project fee required.

4303 3-D Art Encounters – This is an introductory level course for high school art.. Students will learn how to utilize the elements and principles of design, while being exposed to a variety of materials and techniques. Materials may include but are not limited to; clay, wire, plaster and a variety of other three dimensional art media. This course is a prerequisite for Ceramics I, and Jewelry as well as all future three-dimensional course offerings. Project fee required.

4304 Printmaking - Grade 10-12. Prerequisite is 2D Art and Drawing I. This course provides a systematic overview of materials and processes essential to creative work in woodcut, intaglio, and silk screen printing. Project fee required.

4306 Computer Graphics I - Grade 10-12. This is a course with emphasis on learning art and design concepts primarily through the Adobe Photoshop software program. Students will learn how to edit, adjust, and compose imagery to create digital art and products of a graphic nature as seen in commercial art, advertising, publishing, and marketing. Students will learn to use peripherals in the production of their artwork. Can be used as a vocational credit. Project fee required.

4308 Computer Graphics II - Grade 10-12. This is a course with emphasis on creative problem-solving and visual literacy/communication skills of a commercial art nature. Students will add the vector-based Adobe Illustrator software program to their bank of skills while continuing to create original art products. Project fee required.

4310 Drawing I - Grade 9-12. This semester course provides the student with the basic understanding of the elements of art and principles of design. Emphasis will be placed on basic drawing skills and perception while creating artwork in a variety of media. Project fee required.

4312 Drawing II - Grade 10-12. This semester course provides the continuing student with exposure to different media while continuing technical skill development, perception, skills, and creative problem solving. Project fee required.

4314 Drawing III - Grade 10-12. This semester course is for the advanced student and places emphasis on increasing drawing skills and expanding creative ideas. This course will also help students create projects for future portfolio review. Project fee required.

4321 Painting I - Grade 10-12. Prerequisite is Drawing I. This semester course provides the student with the basic understandings of the tools, techniques, processes, and language relative to water-based paint media, including watercolors and acrylics. Students will synthesize these understandings into individual paintings and media studies. Project fee required.

4322 Painting II - Grade 10-12. This semester course provides the continuing student with further study of paint media including watercolor, acrylics, and oils. It will introduce new materials and approaches and provide contexts for individual projects. Emphasis is placed on design composition, color theory, and conceptual thought processes involved in creating complex, interesting paintings. Project fee required.

4330 Ceramics I - Grade 9-12. Prerequisite is 3D Art. This semester course focuses on creative problem-solving through the manipulation of clay. It stresses understanding the nature of clay through basic handbuilding techniques and methods, use of ceramic finishes such as glazes, and includes firing processes, equipment, and vocabulary. Project fee required.

4332 Ceramics II - Grade 10-12. This semester course introduces students to basic wheel throwing and more advanced handbuilding and glazing techniques. Project fee required.

4334 Ceramics III - Grade 10-12. This is a one semester advanced course stressing problem solving using advanced wheel-throwing and handbuilding techniques. Emphasis is placed on developing the student as an artist who communicates ideas through the medium of clay. Project fee required.

4340 Jewelry - Grade 10-12. This course covers the basic techniques of jewelry making using a variety of materials possibly glass, wood, plastic, clay and metals. Students will become familiar with vocabulary terms and tools while creating small forms of sculpture. Project fee required.

4360 Art Independent Study (AIS) - Sem. Grade 11-12. Prerequisites are four semesters of Art courses and portfolio review by staff. This course is designed to meet the continuing artistic needs of the advanced art student. It is an individually directed study in a particular area of art agreed upon by both the student and teachers. This course requires a high degree of motivation and self-discipline and is to be offered only to students who qualify. Project fee required.

4364 AP Studio Art – Yr. Grade 12. Prerequisite is mandatory teacher recommendation. This course is designed for students who are seriously interested in the practical experience of art. The course is organized as an intensive, year-long class and requires commitment in **quality** and **quantity** of work from the prospective art student. AP Studio Art

is not based on a written examination; instead, students focus on portfolio development, breadth of work and thematic concentration for evaluation at the end of the school year. It is vital that you plan far enough in advance so that you can complete the portfolio on time. Students will be expected to work outside the classroom, as well as in it, and beyond scheduled periods. Two-dimensional and three-dimensional artist portfolios accepted. Project fee required.

*Computer Graphics now qualifies for an art credit or a vocational credit.

Business Education Articulated Credit With College Of DuPage

Students attending College of DuPage may receive college credit when the following courses are completed with a grade of B or better in high school. Students must be taking at least one course at COD (be in their system) and apply for the credit within 2 years of graduation from High School.

Course Completed at NVHS, WVHS	Credit at COD
Accounting I and Accounting II Computer Applications I or Computer Applications II Word Processing Computer Applications II, Data Management, Multimedia Presentations Business Orientation	Accounting 1110 (4 hrs. credit) Office Technology Info 1100 (3 hrs. credit) Office Technology Info 1215 (2 hrs. credit) Office Technology Info 1200 (2 hrs. credit) Business 1100 (3 hrs. credit)

Business Education

Andrea Hendrickson, Department Chairperson - WVHS

Jennifer Yavorski, Department Chairperson - NVHS

The Business Department offers a variety of courses to prepare students for continued education and for development of personal and business skills. A modest materials fee will be assessed in those classes requiring extensive computer usage.

Business Course Listings

Professional Courses			
Course #	Title	Level	Prerequisite
4100	Business Orientation	Sem. 9-11	None
4130	Management	Sem. 11-12	Business Orientation recommended
4142	Advertising**	Sem. 10-12	None (Business Orientation and/or Computer Applications II recommended)
4144	Entrepreneurship**	Sem. 11-12	Business Orientation (Management & Accounting recommended)
4192	Marketing**	Yr. 11-12	Business Orientation and/or Advertising recommended
4197	Business Internship	Yr. 11-12	Currently or previously taking a Capstone Course (Marketing, Accounting II, Finance, Multimedia, Web Page, Entrepreneurship) or instructor approval.
Computer Courses			
Course #	Title	Level	Prerequisite
4106	Desktop Publishing w/ Graphics**	Sem. 9-12	Computer Applications II
4120	Computer Applications I**	Sem. 9-12	None
4122	Word Processing**	Sem. 9-12	Computer Applications II
4124	Data Management**	Sem. 10-12	Computer Applications II
4126	Computer Applications II**	Sem. 9-12	Computer Applications I or instructor placement
4164	Web Page Design**	Sem. 10-12	Desktop Publishing (Data Management recommended)
4194	Multimedia Presentations**	Sem. 10-12	Desktop Publishing
Financial Courses			
Course #	Title	Level	Prerequisite
4104	Business Mathematics	Sem. 10-12	Pre Algebra I or 2 yrs. General Math
4114	Accounting I**	Yr. 10-12	None

4116	Accounting II**	Yr. 11-12	Accounting I
4148	Finance	Sem. 11-12	Accounting is highly recommended
Personal Skills			
Course #	Title	Level	Prerequisite
4102	Notetaking & Study Skills **	Sem. 9-12	None
4103	College Test Prep**	Sem. 11-12	None
4108	Fundamentals of Consumer Economics	Sem. 12	U.S. History Fundamentals
4110	Consumer Economics	Sem. 12	None
4111	Online Consumer Economics	Sem. 12	Guidance Approval Only
4112	Advanced Placement Microeconomics**	Sem. 12	None
4140	Business Law**	Sem. 11-12	None
4152	Advanced Placement Macroeconomics**	Sem. 12	None

**These classes require a materials or workbook fee.

Business Course Descriptions

All Business courses are one semester and open to any student unless noted.

4100 Business Orientation - Grade 9-11. This one-semester course introduces students to the world of business. Topics covered include types of business organization, marketing, advertising, accounting, human resources, management decision making, investing, finance, international business, and economics. Recommended for students who wish to further study business (Management, Accounting, Marketing, Advertising, etc) and is required for those who wish to take Entrepreneurship in their junior or senior year.

4102 Notetaking & Study Skills - Grade 9-12. This course is designed for students desiring to learn a more efficient way of taking notes. Techniques are provided to develop listening skills, study skills, test taking skills, improve memory and correct use of spelling and grammar rules. Organizational skills and time management techniques are discussed and applied throughout the course (such skills can be used by all students whether they are career or college bound). A workbook fee will be charged.

4103 College Test Prep - Grade 11-12. This course is designed for junior and senior students desiring improvement in reading, vocabulary, grammar, math, and science skills. Emphasis is placed on improving test-taking skills and learning techniques to improve success on standardized tests such as the ACT and the SAT. A workbook fee will be charged.

4104 Business Mathematics - Grade 10-12. This course develops and strengthens mathematical skills needed for business careers and business financial management. Units of work include problem-solving procedures involving purchasing, sales, marketing, banking services, investments, taxes, and data analysis. The importance of proper accounting is stressed.

4106 Desktop Publishing with Graphics - Grade 9-12. Prerequisite is Computer Applications II. Student will use the PC, InDesign, and Photoshop to develop proficiency in practical applications Productions layout and design, use of scanners and digital cameras and advanced computer literacy will be stressed. A materials fee will be charged.

4108 Fundamental Consumer Economics - Grade 12. Placement by department. This course will fulfill the graduation requirement for Consumer Economics. It is designed for students who need a practical, concrete view of their role in our economy. Most of the semester is spent covering units on consumer skills such as decision making, money management, banking, credit, smart consumer choices, and consumer' problems, rights, and responsibilities. The consumer's role in the market economy as well as how business and government interact with each other and the consumer to form our economic structure will be covered.

4110 Consumer Economics - Grade 12. Consumer Economics, a required course, involves the students with those economic concepts and sills necessary for added satisfaction in the use of their resources. This course will integrate the economic concepts with the consumer skills. Instruction will center around the student's role in the economy as a citizen, consumer and worker. Topics will include: money management, buying goods and services, housing, banking and the Federal Reserve System, financial institutions and the use of credit and loans, consumer protection, insurance, savings and

investing, pricing of products, supply and demand, taxation, inflation, government, labor unions, and the free enterprise system.

4111 Online Consumer Economics - Grade 12. Guidance office approval required. This course offers students an alternative to the traditional classroom consumer course, while still meeting the graduation requirement. The course is completely online (easily accessed on the Internet) and consists of units, a written midterm and final, and a group project. Succeeding in an online environment will require students to be responsible for managing their time, and to communicate with classmates and the instructor on a regular basis, in order to make consistent progress and meet deadlines. Strong technology skills are not a requirement, but some comfort with using Internet sources will be helpful. See counselor for details.

4112 AP (Advanced Placement) Microeconomics - Grade 12. This course is a college-level course dealing with topics pertaining to microeconomics. Topics include the principles of economics that apply to the functions of the individual decision-making for both the consumer and the producer within the large economic system and the role of government in the economic system. Studies include consumer topics to satisfy the state requirement for Consumer Economics. Students may also receive college credit in microeconomics by qualifying on the advanced placement exam at the end of the school year. For transcript evaluation purposes by other schools and colleges, this course may also be considered as a semester credit of social studies. Weighted grade. A workbook fee will be charged.

4114 Accounting I - Grade 10-12. Two semesters. Accounting I tracks the flow of money into and out of a business. It is the most vital of all business information systems. It is the study of recording business records for the purposes of making business management decisions and the preparation of tax reports. Accounting principles are learned for service and merchandising businesses. It is an in-depth study of the principles of accounting as applied to the financial data that is needed to understand business operations. Procedures used with proprietorships, partnerships, and corporate merchandising are studied. A workbook fee will be charged.

4116 Accounting II - Grade 11-12. Two semesters. Prerequisite is Accounting I. This is an advanced course of study offered to the student who had decided on a career in accounting or related business occupation. Study includes partnership and corporate accounting, cost accounting for merchandising and manufacturing businesses. Budgetary planning and control, information for management decisions, and financial statement analysis are also studied. Automated accounting using the microcomputer is integrated throughout the course. Students enrolled in this course qualify for Business Internship. A workbook fee will be charged for this course.

4120 Computer Applications I - Grade 9-12. This course is designed to develop proper keyboarding and formatting techniques. Emphasis will be placed on developing proper techniques for speed and accuracy, and formatting both personal and business documents in Microsoft Office. Computer literacy topics will be introduced. Students who wish to continue in the computer sequence may go on to Computer Applications II. A materials fee will be charged.

4122 Word Processing - Grade 9-12. Prerequisite is Computer Applications II. Students will continue to build proficiency in Microsoft Word software. Advanced techniques and projects include mail merge, reports with index and table of contents, on-line form macros using Visual Basic for applications and integrating all Microsoft Office features with business simulations. This course prepares students for MOSC certification in Word (expert level). A materials fee will be charged.

4124 Data Management - Grade 10-12. Prerequisite is Computer Applications II. This course increases a student's knowledge and skills by using advanced integrated capabilities of Microsoft Excel for spreadsheet management and Microsoft Access for database management. Advanced computer literacy topics will be introduced and discussed. This course prepares students for MOSC certification in Excel and Access. A materials fee will be charged.

4126 Computer Applications II - Grade 9-12. Prerequisite is Computer Applications I or instructor placement. This course is designed for the student who already has demonstrated proper keyboarding and formatting techniques using the Microsoft Office package. Students will gain speed and accuracy while formatting letters, newsletters and reports. The Internet is used for research and graphic design. Computer literacy will be emphasized. This course prepares students for MOSC certification in Word (core level). A materials fee will be charged.

4130 Management - Grade 11-12. Prior completion of Business Orientation 4100 recommended. Business Management is a semester long class designed to facilitate your conceptual and practical understanding of issues related to management principles, practices, and organizational behavior. The topics explored include forms of business, product planning, marketing and production management techniques, personnel management, labor relations, human resource functions, ethics and the functions of planning, organizing, controlling and decision making. Each unit will require a project/activity to assess student learning. A systematic approach has been created with the intention of providing a process for evaluating student performance in their development and presentation of class projects for the Business Management course.

4140 Business Law - Grade 11-12. This course is designed for students preparing for both the business world and personal life in order to understand the legal environment in which we live. This course will give students insight into the legal rules and regulations that benefit mankind and will promote understanding of the importance of law to both society and the individual. Topics studied include: ethics, criminal and civil law, the court system, contracts, law and the minor, law and the consumer, employment law, bankruptcy, wills, and career exploration. Mock trials and a field trip to the county courthouse are utilized in this course to provide authentic learning experiences. A workbook fee will be charged.

4142 Advertising - Grade 10-12. Prior completion of Business Orientation and/or Computer Applications II is highly recommended. This course will focus on advertising principles and practices. Students will learn the history of advertising, its role in today's society, how the advertising industry works, careers in advertising, and the principles and techniques used to create ads for a variety of media. Emphasis is placed on planning and designing print ads, radio and TV commercials, and other specialty ads that appeal to certain target markets. Moderate computer use will be required. A materials fee and workbook fee will be charged.

4144 Entrepreneurship - Grade 11-12. Prerequisite is Business Orientation. Prior completion of Management and/or Accounting I is highly recommended. This course gives students the opportunity to learn about entrepreneurship as they develop a workable business plan that could be used in starting up and running a small business. Areas covered include financing, planning and research, market analysis, site location, pricing, promotion, staffing and training, and legal issues. By looking at successful entrepreneurs in history and through exposure to current entrepreneurs from local businesses, students will understand the opportunities and challenges entrepreneurs face and their importance to our economy. This is a capstone class recommended for gifted students and vocational students giving serious consideration to a career running their own small business. Students enrolled in this course qualify for Business Internship. A workbook fee will be charged for this course.

4148 Finance - Grade 11-12. Accounting I is highly recommended. This course is designed to be a capstone course in the business curriculum pertaining to the financial sequence. The course will focus on four areas of finance: financial institutions, the Federal Reserve System, international markets, and the US stock and commodities markets. The course will emphasize "real-world" business and investment situations for student analysis and decision-making strategies.

4152 AP (Advanced Placement) Macroeconomics - Grade 12. This course is a college-level course with topics pertaining to macroeconomics. Topics include the principles of economics that apply to the functions of the whole economic systems such as the money supply, GDP, banking and the global economy. Studies include consumer topics to satisfy the state requirement for Consumer Economics. Students may also receive college credit in macroeconomics by qualifying on the advanced placement exam at the end of the school year. For transcript evaluation purposes by other schools and colleges, this course may also be considered as a semester credit of social studies. Weighted grade. A workbook fee will be charged.

4164 Web Page Design - Grade 10-12. Prerequisite is Desktop Publishing. Previous completion of Data Management is recommended. Students will discover how the Internet is used, organized, and developed. Students will create and design a variety of webpages using HTML, Dreamweaver, and other software applications. A materials fee will be charged.

4192 Marketing - Grade 11-12. Two semesters. Business Orientation and Advertising recommended. This course examines the field of marketing and its essential role in all aspects of business. Topics covered include the role of marketing in today's society, marketing careers, product planning and development, pricing strategies, distribution methods, sales techniques, promotion, visual merchandising, and marketing math skills. Marketing principles learned will be applied through industry-specific units on sports, entertainment, travel/tourism, and fashion marketing. Students enrolled in this course qualify for Business Internship. A workbook fee will be charged for this course.

4194 Multimedia Presentations - Grade 10-12. Prerequisite is Desktop Publishing. This course will allow students to develop a broader base of knowledge in information processing and multimedia presentations by using PowerPoint and Flash. Scanning techniques, digital camera and sound techniques will be incorporated. This course prepares students for MOSC certification in PowerPoint. A materials fee will be charged.

4197 Business Internship - Grade 11-12. Two credits, two semesters. Prerequisite is that you have previously taken or are currently enrolled in a Capstone Course (Marketing, Entrepreneurship, Accounting II, Finance, Web Page, or Multimedia) or the approval of internship instructor. This is a cooperative work program between the school and the employers. Student work outside of school and also attend class on a daily basis. Topics discussed in class pertain to work related and career issues. A student will receive **one credit for classroom** instruction and **one credit for on-the-job training**. The internship instructor will assist with job placement and monitor students' progress throughout the year. Early dismissal is NOT a requirement for this program. Students must provide own transportation.

English

Mike Dwyer, Department Chairperson - WVHS
Karen Pierros, Department Chairperson - NVHS

A student must be registered in a core English course each semester. The curriculum builds language skills sequentially from freshman through senior levels. Writing-based courses introduce, develop, and refine student skills in all aspects of the writing process including literary analyses, personal essays, and creative writings. In addition, reading development is approached through the various literature offered in each course.

The first two years of English course work consist of two full-year courses, English I and II. In the remaining four semesters of a student's high school career, a student must take:

1. one semester of English III-British Literature I
2. one choice from the five choices offered from the junior choice list, and
3. two choices from the senior choice list for the student's senior year in the district.

If students are enrolled in a year course such as English III British Literature and Contemporary Literature or English III Advanced Placement British Literature and Composition, they need not make semester selections from the Junior or Senior choices because their class lasts for the entire school year.

Students may also take Advanced Placement classes, English III-AP and English IV-AP, to fulfill their four-year English requirement.

The communication electives (special interest courses) may be taken in addition to the core curriculum but do not count toward fulfillment of English requirements for graduation.

Because Honors and Advanced Placement (AP) course work is accelerated and more sophisticated, upper level work of high quality in a compacted time frame is demanded of students. The English Department has developed recommendations for student success. These criteria are indicators of performance levels or standards for the Honors or A.P. courses and are available from the English Department.

English Course Listing

Freshman Courses			
Course #	Title	Duration	Prerequisite
4204	English I-Literature Survey and Composition	Year	None
4205	English I-Honors Literature Survey and Composition	Year	None
Sophomore Courses			
Course #	Title	Duration	Prerequisite
4202	English II-Practical	Year	Placement
4206	English II-American Literature and Composition	Year	
4207	English II-Honors American Literature and Composition	Year	
4929	English II-American Society	Year	
Junior Courses			
Course #	Title	Duration	Prerequisite
4226	English III-Regular	Year	Placement
4229	English III-Advanced Placement British Literature and Composition	Year	
Remaining Juniors must take 4228 and one additional semester course from the following choices.			
4228	English III-British Literature I and Composition	Sem.	English II
Junior Choices			
4227	English III-Contemporary Literature	Sem.	English II
4235	English III-Mythology	Sem.	English II
4239	English III-Dramatic Literature	Sem.	English II
4247	English III-British Literature II	Sem	English II

4258	English III-Cultural Studies	Sem.	English II
Senior Courses			
Course #	Title	Duration	Prerequisite
4236	English IV-Film Studies - Composition & Communication	Year	Placement
4249	English IV-Advanced Placement Literature & Composition	Year	
Remaining Seniors choose two courses from the following seven choices.			
Senior Choices			
4238	English IV -Film Studies	Sem.	
4246	English IV-20th Century Literature & Beyond	Sem.	
4266	English IV-Poetry Reading & Composition	Sem.	
4276	English IV-World Literature I & Composition	Sem.	
4277	English IV-World Literature II & Composition	Sem.	
4282	English IV-Philosophy through Literature	Sem.	
4283	English IV-Composition and Communication	Sem.	
Electives			
Course #	Title	Level	Prerequisite
4220	Public Speaking	Sem. 11-12	None
4222	Theatre Arts I	Sem. 10-12	None
4224	Theatre Arts II	Sem. 10-12	Theatre Arts I
4230	Creative Writing I	Sem. 11-12	None
4232	Creative Writing II	Sem. 11-12	Creative Writing I
4240	Newspaper Journalism	Year 10-12	Instructor's Permission
4242	Yearbook Journalism	Year 10-12	Instructor's Permission
4280	College Prep Reading	Sem. 10-11	None
4284	Reading Workshop	Year 9-11	Placement required

English Course Descriptions

All English courses are year-long unless noted.

Freshman Level Core Courses

4204 English I - Literature Survey and Composition - This full year course focuses on literary analysis through study of myth, short story, novel, poetry, and drama. Descriptive, expository, persuasive, and narrative writing, as well as basic research techniques and speaking skills are emphasized. In addition, students will refine grammar and usage skills through the writing process and effective composition strategies. Major themes and works studied include "Coming of Age" and "Visions of the Future," "To Kill A Mockingbird", "Romeo and Juliet", and "Fahrenheit 451".

4205 English I Honors - Literature Survey and Composition - This course emphasizes analytical consideration of mythology, short story, novel, poetry, and tragic drama. Refinement of the principles of grammar, usage, and precision of expression is taught through emphasis on effective composition skills. Through the study of literature and composition, students will learn strategies necessary to earn Advanced Placement test credits as juniors and seniors. Major themes and works studied include "Coming of Age" and "Visions of the Future," "Romeo and Juliet", "Frankenstein", "Merchant of Venice", and "Fahrenheit 451".

Sophomore Level Core Courses

4202 English II - Practical Reading and Writing - By placement only. This full year course continues to maintain or build reading rate and comprehension skills, developing from each student's instructional level.

4206 English II - American Literature and Composition - This full year course includes the study of American Literature from colonial through contemporary periods. Students will read journals, biographies, essays, novels, short stories, plays, and poetry representing American authors and authors of various ethnic backgrounds. The literature will promote students' analytical abilities and will encourage critical thinking skills through the writing of expository, persuasive, and narrative essays. In addition, the literature will service as models and material for speaking in persuasive, informative, and entertainment forums. Major themes/works studied include "The American Dream", "Creating the Self", "The Great Gatsby", and "The Crucible".

4207 English II Honors - American Literature and Composition - This full year course includes the study of American Literature from colonial through contemporary periods. Students will read journals, biographies, essays, novels, short stories, plays, and poetry representing American authors and authors of various ethnic backgrounds. The literature will promote students' analytical abilities and will encourage critical thinking skills through the writing of expository, persuasive, and narrative essays. In addition, the literature will serve as models and material for speaking in persuasive, informative, and entertainment forums. Through the study of literature and composition, students will learn strategies necessary to earn Advanced Placement test credits as juniors and seniors. Major themes/works studied include "The American Dream", "Creating the Self", "The Great Gatsby", and "The Crucible".

4929 American Society: Interdisciplinary American Literature/American Studies - Two periods, all year. This year long course provides a two-credit alternative to separate American Studies and English classes. Students will receive individual grades for each course and will fulfill the graduation requirements for both English and U.S. History. The linkage between the two courses allows for many opportunities to emphasize the connections between American literature, history, art, music and architecture through team-teaching, joint assignments and projects. The course demands active student participation, intensive outside reading, and challenges beyond the classroom setting (i.e. field trip, projects). Students who are interested in studying English and history through this creative humanities emphasis will enjoy this option. Major works include: "The Crucible", "The Great Gatsby", and "Warriors Don't Cry".

Junior Level Core Courses and Choices

Core Courses

4226 English III – Regular (British Literature and Contemporary Literature) - This course surveys British literature in thematic units. It is designed to reinforce valuable principles and usage with emphasis on improving composition skills. Students complete a research project during the second semester.

4228 English III - British Literature I and Composition - Semester course. This one-semester course continues college preparation of language and composition skills through concentration on the study of works such as "Beowulf", "The Canterbury Tales", and "MacBeth". Emphases on written skills continue primarily based on critical analyses of works studied as well as on the writing of personal essays.

4229 English III Advanced Placement - British Literature and Composition - This year long course emphasizes the genres of British literature and continues the writing of critical analyses of works studied as well as the writing of personal essays. During the course a focus is the preparation for taking the Advanced Placement English Language Test. Students may receive college credit by qualifying on the advanced placement exam administered by the College Board. Students in this course may also opt to add an additional junior choice to their second semester studies.

Junior Choices

The following are second semester junior classes. Juniors enrolled in English 4228 must choose one of the following electives to complete the high school four-year English requirement. Juniors in Practical Reading and Writing (4250) or AP (4229) English classes may opt to take English 4247, 4239, 4227, 4228 or 4235 as electives only.

4227 English III - Contemporary Literature and Composition - One semester. This class provides the opportunity for students to experience current issues through contemporary fiction and non-fiction. Through analysis of novels, short stories, and non-fiction works, students will examine the relevance of the literature to their experience. With the use of high interest literature, students will continue building their writing, thinking, and vocabulary skills.

4235 English III - Mythology and Composition - One semester. This course is designed to acquaint students with world myths, legends, and folklore that form the background and tradition of literary heritage, gaining an appreciation for literature of other cultures and time periods, some of which are African, Celtic, and Middle and Far East. The students will work toward mastery of skills including writing, speaking, cooperative learning, and higher-level thinking. Through the study of mythology and its influence in more modern literature, students will enhance global awareness and insight into imagination and the human experience.

4239 English III - Dramatic Literature and Composition - One semester. This course offers a study of dramatic literature from various theatrical genres and historical periods. Students will examine these plays as pieces of literature, not production. The reading and accompanying discussions and activities will provide a basis for expository and analytical writing. Through the study of dramatic literature, students will continue to enhance their reading, writing, and thinking skills.

4247 English III - British Literature II and Composition - One semester. This course offers a thematic and chronological approach to the continued study of British literature through essays, poetry, novels, and short stories from the Restoration to the Modern and Contemporary Eras. This course continues the emphasis on critical thinking, composition writing, and effective reading skills needed to be lifelong learners.

4258 English III - Cultural Studies - Grade 11. One semester. This course allows students to be exposed to literary works from a variety of cultures. The emphasis will be placed on reading novels that are the result of the society from which they were produced. The similarities and differences among the various cultures studied will provide students with a historical and social perspective. By looking at the cycle through which society impacts literature that then has a future effect on society, students will gain awareness of how multi-cultural literature affects and reflects today's society.

Senior Level Core Courses and Senior Choices

Core Classes

4236 English IV - Film Studies, Composition and Communication - This full year course focuses on various aspects of film study including the technical viewpoint, the historical significance, and the visual approaches used to demonstrate thematic ideas in film. Also, students focus on communication skills needed to effectively connect with others in their environment, personal relationships, daily activities, and professional settings. Students will focus on logically developing ideas with appropriate evidence, clear and precise language, and varied sentence structure. In this course students will utilize and refine their reading, writing, listening, and speaking skills.

4249 English IV Advanced Placement - Literature and Composition - This year long course emphasizes the genres of British literature and continues the writing of critical analyses of works studied as well as the writing of personal essays. During the course a focus is the preparation for taking the Advanced Placement English Literature Test. Students may receive college credit by qualifying on the advanced placement exam administered by the College Entrance Examination Board. Students in this course may also opt to add a senior choice to their semester studies.

Senior Choices

The following are semester long senior classes. Seniors may choose two of the following electives to complete the high school, four-year English requirement. Seniors English IV Film Studies and Composition and Communication (4236) may opt to take these Senior Choice courses as electives only.

4238 English IV - Film Studies: Literature and Composition - One semester. This course allows seniors the opportunity to understand the historical periods of film development (The Silent Era, German Expressionism, Documentary, Suspense), the technology in film production and the elements of film making in order to become more literate, critical and evaluative when viewing film. Students will research films and respond to films through a variety of rigorous assignments such as written analyses, class presentations and semester projects. This class will hone critical thinking and composition skills developed in previous English classes while introducing the concept of visual literacy.

4246 English IV - 20th Century Literature and Beyond - One semester. This course allows seniors the opportunity to read a variety of contemporary novels, plays and short stories. Building on textual knowledge, critical thinking and composition skills developed in previous English classes, students will question and determine the role of contemporary literature in society through a variety of written analyses, class presentations and quarterly projects.

4266 English IV - Poetry Reading and Composition - This course allows seniors the opportunity to enhance creative and imaginative expression by developing the skills and commitment essential for reading and writing poetry. Through the study of classical, modern and contemporary poetry, the course provides seniors with a wide variety of poetic prompts, opportunity to respond to the prompts, analysis of poetry in formal compositions, and a workshop setting that enables students to respond to and learn from one another's writing. Students will be encouraged to submit their writing for publication.

4276 English IV - World Literature and Composition I - This one semester course will provide students with an overview of timeless major literary works from around the world. Students will read and respond to selected novels, plays, short stories, essays, and poetry. Students will gain an understanding of works of literary merit from other cultures and the universality of the human condition.

4277 English IV - World Literature and Composition II - This one semester course offers a continuation to World Literature I, although World Literature I is not a prerequisite. The course provides students with a further exploration of timeless major literary works from around the world. Students will read and respond to selected novels, plays, short stories, essays, and poetry. Students will gain an understanding of works of literary merit from other cultures and the universality of the human condition.

4282 English IV - Philosophy through Literature - In this one semester course, students will analyze the cultural roots of civilization through an examination of selected literature and its philosophies, preparing students for further study and enhancing their understanding of broader profound concepts such as: knowledge, truth, the difference between right and wrong, justice, evil, fate, freedom, and beauty. Through this study students will hone critical thinking skills, understand the basic principles of argumentation, and create counterarguments in both discussion and formal writing.

4283 English IV - Composition and Communication - This one semester course concentrates on communicating effectively in the academic environment, personal relationships, daily activities, and professional settings. In this course, students will utilize and refine their reading, writing, listening, and speaking skills. Students will focus on logically developing ideas with appropriate evidence, clear and precise language, and varied sentence structure. They will learn how to effectively communicate in different settings through instruction on teamwork, problem solving, technological application, leadership skills, and interaction with people in various roles and work situations, all to help them become successful communicators in the world beyond high school.

Communication Electives

These courses count toward graduation as general electives rather than toward the English requirement.

4220 Public Speaking - Grade 11-12. One semester. This course develops essential oral communication skills learned at previous levels of the language arts experience. Individual speeches, such as children's stories, prose reading, awards, impromptu, radio speaking, and original essays are covered in this semester program. Special attention is given to acquiring poise, confidence, and respect as a speaker.

4222 Theatre Arts I - Grade 10-12. One semester. This course is a student-oriented class that focuses on the theory of acting, the process of directing, and the elements of technical theatre. Theory will be interlaced with opportunities for hands-on involvement at all levels of the theatrical experience.

4224 Theatre Arts II - Grade 10-12. One semester. This course builds upon concepts learned in Theatre Arts I while still centering on student participation and involvement. The focuses will be on more advanced styles of acting and more specific responsibilities inherent to the directing process, including technical aspects of theatre.

4230 Creative Writing I - Grade 11-12. One semester. This course enhances creative and imaginative expression by developing the skills, style, and commitment essential for effective writing. Students will explore a variety of genres journals, short stories, poetry, essays, and drama.

4232 Creative Writing II - Grade 11-12. One semester. Prerequisite is Creative Writing I. This course significantly extends the writing experiences introduced in Creative Writing I. Primary focus will be on poetry and short story writing. Students will create a portfolio for both their poetry and their short stories and will submit some of their work for publication.

4240 Newspaper Journalism - Grade 10-12. Prerequisite is instructor's permission based on teacher recommendations regarding the student's writing ability, creativity, and dependability. A test of basic writing skills may also be administered. This course develops writing, interviewing, and design skills which are applied when students produce the school newspaper. NOTE: This course may be repeated with permission of the instructor.

4242 Yearbook Journalism - Grade 10-12. Prerequisite is instructor's permission based on teacher recommendations regarding the student's writing ability, creativity, and dependability. A test of basic writing skills may also be administered. This course develops skills such as writing copy, designing spreads, and desktop publishing. Students develop computer literacy skills and meet specific deadlines in order to produce the annual high school yearbook. NOTE: This course may be repeated with permission of the instructor.

4280 College Prep Reading - Grade 10-11. One semester. This course will address the reading strategies required for comprehension of text materials and sophisticated fiction selections, etymology, and logic strategies. Test preparation will also be an element of this course: students will learn how to deal with the different test constructions (e.g. ACT, SAT) for improved test performance. This course will have a reading list and will require work outside class time.

4284 Reading Workshop - Grade 9-11. Placement required. Reading Workshop is a year-long course offered to students who are willing to make a commitment to improve and enhance their reading skills. The workshop will emphasize organizational skills, reading and advanced reading strategies and test-taking skills.

English Language Learning Program

Ann Paternostro, District ELL Program Coordinator

The high school ELL program offers English Language Learners a series of courses to assist them in attaining English language proficiency and in meeting state learning standards. Students are referred to, and placed in, this program based upon the district Home Language Survey, classroom performance, and/or assessment by the ELL teacher.

English Language Learning Course Listing

ELL Courses			
Course #	Title	Credit	Prerequisite
4016	ESL Resource	1 unit	Placement
4261	Intensive ESL Resource	1 unit	Placement
4262	English 1 for ESL Students	1 unit	Placement
4263	English 2 for ESL Students	1 unit	Placement
4264	Intensive ESL English 2	1 unit	Placement
4265	Spanish for Spanish Speakers 1	1 unit	Placement
4267	Bilingual Resource	1 unit	Placement
4269	Intensive ESL English 1 (2 periods)	1 unit	Placement
4275	English 3 for ESL Students	1/2 unit	Placement
4565	Spanish for Spanish Speakers 2	1 unit	Placement

The high school ELL program offers English language learners a series of courses to assist them in attaining English language proficiency and in meeting state learning standards. Students are referred to, and placed in, this program based upon the district Home Language Survey, classroom performance, and/or assessment by the ELL teacher.

4016 ESL Resource - This class provides academic support to English language learners to enable them to be successful in their core academic classes. Students receive assistance with the development of cognitive academic language as well as with reading and writing skills. Students receive elective credit for this class.

4261 Intensive ESL Resource - This class is for the students in the Intensive English 1 class. It provides them with academic support to enable them to be successful in their core academic classes. Students receive assistance with the development of cognitive academic language as well as with reading and writing skills. Students receive elective credit for this class.

4262 English 1 for ESL Students - This is an English class for English language learners, paralleling the Freshman English Curriculum. The focus of this class is on further developing the student's Listening, Speaking, Reading and Writing skills. Vocabulary and grammar development, reading strategies, literature interpretation, and basic research techniques, as well as descriptive, narrative, persuasive, and expository writing are emphasized. Students enrolled in this class should also be enrolled in either ESL Resource or Bilingual Resource. Students receive English credit for this class.

4263 English 2 for ESL Students - This is an English class for English language learners, paralleling the Sophomore English Curriculum. The focus of this class is on the continuing development of the student's Listening, Speaking, Reading, and Writing skills. Emphasis is on vocabulary and grammar development, reading strategies, literature interpretation, advanced research techniques, and writing expository, narrative, and persuasive essays. Students enrolled in this class should also be enrolled in ESL Resource. Students receive English credit for this class.

4264 Intensive ESL English 2 - This is an English class for students who have completed Intensive English 1 or who have a comparable level of English language proficiency. It focuses on further development of vocabulary and grammar along with reading and writing skills. This class meets for one period a day. Students enrolled in this class must also enroll in either ESL Resource or Bilingual Resource. Students receive English credit for this class.

4265 Spanish for Spanish Speakers 1 - This class is designed to develop the native language literacy skills of English language learners whose first language is Spanish. The focus of this class is on reading, writing, and grammar skills.

Students will also learn about the history and culture of countries where Spanish is spoken. Students receive elective credit for this class.

4267 Bilingual Resource - This class provides native language academic support to English language learners whose first language is Spanish. Spanish-speaking English language learners may choose to take Bilingual Resource instead of ESL Resource. Students receive elective credit for this class.

4269 Intensive ESL English 1 - This is an English class for students who are new to the United States and for whom English is a new language. The focus of this class is on Listening, Speaking, Reading, and Writing. Vocabulary and grammar development, as well as basic reading and writing skills, are emphasized. Students also learn about the history and culture of the United States. This class meets for two periods a day. Students enrolled in this class must also enroll in either Intensive ESL Resource or Bilingual Resource. Students receive English credit for this class.

4275 English 3 for ESL Students - This is a one semester English class for English language learners, paralleling the British Literature Curriculum. The focus of this class is on strengthening the student's Listening, Speaking, Reading, and Writing skills. Strong emphasis is placed on reading strategies, literature interpretation/analysis, and writing expository, narrative, and persuasive essays. Students enrolled in this class should also be enrolled in ESL Resource. Students receive English credit for this class.

4565 Spanish for Spanish Speakers 2 - This class is designed to further develop the native language literacy skills of English language learners whose first language is Spanish. This class will focus on expanding the students' knowledge of reading, writing, and grammar skills as well as their knowledge of history and culture. This class is for students who have successfully completed Spanish for Spanish Speakers 1 or who have tested at an equivalent proficiency level in Spanish. Students receive elective credit for this class.

Articulated Credit with College of DuPage Family And Consumer Science

If a student attends College of DuPage he/she may receive college credit with the following courses are completed with a grade of B or better. For articulated credit only, a student must be taking at least one course at COD to be in their system and must also apply for the credit within 2 years of high school graduation.

Credits	COD	Grade	NV, WV	Time
3	1100 Early Childhood Ed. and Care	B	4470 Early Learning Lab and 4460 Child Growth & Development Articulated Credit	2 sem.
3	1155 Fashion	B	4400 Clothing I – Dual Credit	2 sem.
3	1156 Fashion	B	4410 Clothing II – Dual Credit	2 sem.

Family And Consumer Science

Steve Skorup, Department Chairperson - WVHS

Joe Wagner, Department Chairperson - NVHS

The Family and Consumer Science Department offers students, both male and female, an opportunity to select from a range of courses in this area. These courses can be chosen to prepare the student for continued education, employment after graduation, or personal satisfaction. In many of these classes, students make projects that can be taken home. There are material fees associated with such classes.

Family and Consumer Science Course Listings

Clothing & Fashion Courses			
Course #	Title	Level	Prerequisite
4400	Clothing I*	Yr. 9-12	None
4410	Clothing II*	Yr. 10-12	Clothing I
4416	Fashion Merchandising	Sem. 10-12	None
4440	Independent Study	Sem. 11-12	Clothing II
4497	Professional & Technical Internship	Yr. 11-12	Instructor approval; approved sequence of courses
Foods Courses			
Course #	Title	Level	Prerequisite
4420	Foods and Nutrition I	Sem. 9-11	None
4422	Senior Foods	Sem. 12	No previous high school Foods class
4426	Introduction to Baking	Sem. 9-12	Foods and Nutrition I or Senior Foods
4428	Catering and Hospitality	Sem. 11-12	Three previous foods classes; instructor approval
4432	International and Regional Foods	Sem. 10-12	Intro to Baking
4440	Independent Study	Sem. 11-12	Catering and Hospitality; Instructor's approval
4497	Professional & Technical Internship	Yr. 11-12	Instructor approval; approved sequence of courses
Child Development Courses			
Course #	Title	Level	Prerequisite
4440	Independent Study	Sem. 11-12	Early Learning Lab; Instructor's approval
4460	Child Growth and Development*	Sem. 10-12	None
4470	Early Learning Lab*	Sem. 11-12	"B" or better in Child Growth and Development
4497	Professional & Technical Internship	Yr. 11-12	Instructor approval; approved sequence of courses

Housing & Design Courses			
Course #	Title	Level	Prerequisite
4040	Drafting & Design (Offered through Applied Tech.)	Yr. 10-12	None
4440	Independent Study	Sem. 11-12	None
4450	Housing & Interior Design	Sem. 10-12	None
4497	Professional & Technical Internship	Yr. 11-12	Approved sequence of courses
Independent Living Courses			
Course #	Title	Level	Prerequisite
4186	Intro to Family & Consumer Science	Yr. 9-12	Placement by Special Education staff
4422	Senior Foods	Sem. 12	No previous high school Foods classes
4452	Adult Living	Sem. 11-12	None
4472	Parenting	Sem. 11-12	None

* Articulated credit with College of DuPage is available when these courses are completed with a grade of B or better.

Family and Consumer Science Course Descriptions

All FACS courses are one semester long, unless otherwise noted.

4186 Introduction to Family and Consumer Science - Prerequisite is placement. Two semesters. This is a program for students with unique needs. It is designed to give the student a sampling of the following areas of study: simple food preparation and nutrition, basic sewing and clothing care. A lab fee will be charged.

4400 Clothing I - Grade 9-12. Two semesters. Whether for personal use or a career in clothing and fashion, this course provides an opportunity to develop basic skills for clothing construction. Techniques used to construct a skirt or loose fitting pants, jumper or top, dress or shirt, and knitted fabrics are covered, as well as studying natural fibers and how fabrics are made. Students are encouraged to select pattern and materials according to their needs and abilities. Materials and supplies for the four projects are to be furnished by the student.

4410 Clothing II - Grade 10-12. Two semesters. Students who have successfully completed Clothing I will be ready for the advanced pattern and fabric study in this course. Projects include fitting pants, working with sheer fabrics, plaids and lined projects. Other topics include the principles and elements of design, textiles and career opportunities. Materials and supplies for the four projects are to be furnished by the student.

4416 Fashion Merchandising - Grade 10-12. This course is designed for the student to explore and understand the various facets of today's fashion industry. Areas included are fashion design, fashion buying, merchandising and the retail function. This course may be taken for enrichment or as preparation for further training in fashion-related occupations.

4420 Foods and Nutrition I - This course offers students, male and female, the opportunity to study food preparation for personal and vocational purposes. They will see how shape, texture and color affect the total food experience. The lab experiences include basic cooking principles, microwave cooking, meal planning, time management, consumer buying table settings and service. Students will be made aware of careers in the expanding food industry. It is recommended for students interested in career areas of the Food Service Industry, Nutrition and Child Development. A lab fee will be charged.

4422 Senior Foods - Grade 12. This course may not be taken if a student has already taken another high school foods class. This section is for seniors who have never had a foods course and are preparing for college or independent living. The course is designed to give students an overview of meal preparation and nutrition. It gives the students a sampling of the following areas of study: simple food preparation, nutrition, basic meal planning, purchasing of food, time management, and care and use of cooking equipment and appliances. A lab fee will be charged.

4426 Introduction to Baking - Prerequisite is either Foods 4420 or Senior Foods 4432. This course offers students an opportunity to experience the delights of baking using various techniques and flours to prepare pastries, breads, cookies, cakes and cake decorating and other specialty items. This course is one of three courses available to the student who is interested in continuing his/her foods experiences. A lab fee will be charged.

4428 Catering and Hospitality - Grade 11-12. Prerequisite is completion of three foods classes and instructor approval. Units in this course combine lecture and laboratory work to provide an introduction to the food service industry. Students will have the opportunity to improve their skills and expand their culinary vocabulary as they gain expertise in the areas of food preparation, quantity food production and food management. Careers in the food service industry will be explored. A lab fee will be charged.

4432 International and Regional Foods - Grade 10-12. Prerequisite is Intro to Baking. This course will provide the student the opportunity to experience how food and its preparation varies by region and by country. They will learn about different ingredients and techniques to broaden their culinary horizons. Due to the scope of study, students may enroll in this class for a second semester. A lab fee will be charged.

4440 Independent Study in Family and Consumer Science Grade 11-12. Requires departmental approval. This course provides the student an opportunity for advanced work in clothing and fashion, food service, housing and interior design or early childhood. A contract between student and teacher will be jointly developed specifying goals and objectives. It is an individually- directed study and requires a high degree of motivation and self-discipline. See a teacher in the department for an application.

4450 Housing and Interior Design - Grade 10-12. This course prepares students for decisions needed to be made in housing needs and career choices. Students are introduced to architectural styles, alternative housing styles, basic blueprint reading, principles and elements of design and the use of color. Students make choices in decorating and furniture arrangement. Hands-on projects enable the student to link concepts with visual images.

4452 Adult Living - Grade 11-12. This course is designed to help students, both young men and young women, prepare for their own adult living situations. An empathic approach to intellectual, emotional and physical relationships is taken, using statistically-sound research as a basis for discussions. Topics include self-awareness, communication, sex roles, mate selection, marriage and the family and family crisis.

4460 Child Growth and Development - Grade 10-12. This course is designed to provide the student with an introduction to the intellectual, physical, emotional and social development of a child from prenatal through preschool. It is beneficial both to the future parent and those interested in child-related careers. This class is the prerequisite for Early Childhood Learning Lab and student must earn an A or B to be eligible for Lab.

4470 Early Learning Lab - Grade 11-12. Prerequisites are an A or B in FACS 4460 and approval by the department. This course is designed for the student who successfully completed Child Growth and Development and who may be interested in careers involving young children. The students will be responsible for planning, preparing and teaching three and four year old children in a preschool lab contained within the department. Units of study include, but are not limited to, guidance techniques, art, music and storytelling methods for the preschool child. Students who successfully complete one semester of Early Learning Lab with a grade of "B" or better, and who wish additional involvement with young children, may register for this class for a second semester.

4472 Parenting - Grade 11-12. This course is designed to give the student an overview of parenting and the knowledge necessary for effective parenting. Parenting skills are an integral part of a positive functioning family. Throughout the course, interactions between parent and child will be explored along with the needs, concerns, joys, and responsibilities of parenting.

4497 Professional and Technical Internship - Grade 11-12. Two credits, full year. Prerequisite is department approval. This program serves as the final course in our sequence of courses. Sequenced courses include the following: two previous semesters of foods classes, Clothing II, or Early Childhood Learning Lab. Other courses may qualify. Please see instructor or department head. A student will receive one credit for classroom instruction and one credit for on-the-job training. The Internship instructor will assist with job placement and monitor student progress throughout the year. Early dismissal is not a requirement for this program.

Foreign Language

Peg Abhalter, Department Chairperson - WVHS
Yvonne Fawell, Department Chairperson - NVHS

"The main purpose of studying a foreign language is to obtain something approaching a mastery of the language." (Dr. James B. Conant) This broad and long-range objective implies the need for short term objectives on each level of instruction. The four communication skills: listening, speaking, reading, and writing must be emphasized with student involvement at each stage of development. In conjunction with each level of study, the culture from which the specific language emerged will be a vital part of the learning process. In order to successfully enter and complete the first level of any foreign language offered, the individual student should have a "C" average in regular level English or permission of the instructor. This implies having an understanding of the parts of speech. If a student is linguistically inclined, it would be to his/her advantage to aim at mastering at least one foreign language through level III or IV. AP language courses carry a weighted grade. Native speakers may be placed in higher levels with department approval.

Foreign Language Course Listing

French Courses			
Course #	Title	Level	Prerequisite
4500	French I	Yr. 9-12	Successful completion of the previous level or placement by the department chair is required.
4502	French II	Yr. 10-12	
4504	French III	Yr. 10-12	
4506	French IV AP	Yr. 10-12	
German Courses			
Course #	Title	Level	Prerequisite
4510	German I	Yr. 9-12	Successful completion of the previous level or placement by the department chair is required.
4512	German II	Yr. 10-12	
4514	German III	Yr. 10-12	
4516	German IV AP	Yr. 10-12	
Spanish Courses			
Course #	Title	Level	Prerequisite
4520	Spanish I	Yr. 9-12	Successful completion of the previous level or placement by the department chair is required.
4522	Spanish II	Yr. 9-12	
4524	Spanish III	Yr. 10-12	
4525	Spanish IV	Yr. 10-12	
4526	Spanish IV AP	Yr. 10-12	

Special Note: Spanish V, German V, and French V are available for dual credit through COD. Please see the department chair for information.

All three languages at levels I, II, and III have additional workbook fees.

Foreign Language Course Descriptions

All Foreign Language courses are year long. They are sequential, requiring completion of the previous level.

4500 French I - Grade 9-12. French I introduces the student to practical vocabulary and basic grammatical structures that will enable him/her to communicate in simple French. The course focuses on speaking, listening, reading, and writing, as well as various aspects of French culture. Oral communication is stressed.

4502 French II - Grade 10-12. French II builds on the skills developed in French I. Students expand their vocabulary and begin to study more complex grammatical structures. Cultural exploration continues. Development of all four communication skills is stressed, with special emphasis on oral communication. Most of this class is conducted in French.

4504 French III - Grade 10-12. French III reinforces and develops the four basic communication skills and allows students to use them at a more advanced level. As time allows, this course introduces students to French literature, art, and history. Class discussions and work are conducted almost exclusively in French.

4506 French IV AP - Grade 10-12. French IV focuses on a more extensive exploration of French culture and literature. Readings range from classic to contemporary literary works. Students continue to expand their communication skills as they compare and contrast French and American cultures and explore French history, art, and films. A selection of projects will be required during the summer preceding the course... Weighted credit... Students will have the opportunity to attain proficiency in the skills assessed on the AP exam. The class is conducted entirely in French.

French V - is available as a dual credit option with COD. Please see the department chair.

4510 German I - Grade 9-12. German I puts an emphasis on structure and beginning proficiency, German I introduces the student to basic conversational forms and self-expression in the target language. As the student learns to understand, speak, read, and write German on a basic level, he/she becomes familiar with aspects of German culture, particularly relating to the everyday life of teens.

4512 German II - Grade 10-12. German II has an increasing emphasis on vocabulary and conversational proficiency. Students also begin a portfolio of written work. A higher level of structural forms is learned while students learn to express themselves in everyday situations in the family and with friends.

4514 German III - Grade 10-12. German III continues on basic language skills while the student learns the most complex structures and begins to describe, discuss, and express themselves personally in the language. Short stories and a short mystery novel are read.

4516 German IV AP - Grade 10-12. German IV focuses on student production in the form of reports, oral projects, role-playing, essays, and discussions. Speaking, reading, and writing are emphasized. Readings include current articles as well as short stories and a modern drama. A selection of projects will be required of students during the summer preceding the course. Students will have the opportunity to attain proficiency in the skills assessed on the AP exam.

4520 Spanish I - Grade 9-12. Spanish I is designed to train the student to understand, speak, read, and write basic Spanish, as well as presenting a cultural background of the Spanish-speaking people. Oral communication is stressed.

4522 Spanish II - Grade 9-12. Spanish II expands the basic skills of the first year course by broadening the knowledge of vocabulary, basic grammar skills and Spanish culture. The course is also designed to further develop conversational, reading and writing skills. Oral communication is stressed.

4524 Spanish III - Grade 10-12. Spanish III continues to build proficiency in listening, speaking, writing and reading. It enhances and expands upon the material which students have mastered in levels I and II. Language proficiency is developed through a challenging and varied curriculum, including cultural readings, oral presentations utilizing technology, a video telenovela, and a novel study. The class is taught primarily in Spanish.

4525 Spanish IV Regular - Grade 10-12. The regular Spanish IV class focuses on the four skills: reading, writing, listening, and speaking. However, emphasis is on the conversational skills. The students expand their vocabulary through reading stories, literature, and through various cultural units. The class is conducted entirely in Spanish.

4526 Spanish IV AP - Grade 10-12. Spanish IV focuses on further developing the speaking, reading, writing, and listening level of proficiency of the student. The students review previous grammar, learn new grammar, and expand their vocabulary knowledge through the reading of short stories and literature pieces such as "Don Quixote".

A Selection of projects will be required during the summer preceding the course. Students will have the opportunity to attain proficiency in the skills assessed on the AP exam.

Spanish V - is available as a dual credit option through COD. Please see the department chair.

Mathematics

Vanessa Liveris, Department Chairperson - NVHS
Jackie Palmquist, Department Chairperson - WVHS

The Mathematics curriculum is designed to meet the needs of all our students. The curriculum is structured into three distinct sequences based upon student abilities. Any six semesters of Mathematics, successfully completed, will fulfill the three year requirement for graduation.

All Math classes are year-long unless noted. Each course builds on the courses before it. The typical sequence includes some level of Algebra, Geometry, Algebra II/Trigonometry, Math Analysis, and Calculus.

Because honors and Advanced Placement (AP) course work is accelerated, that is, more sophisticated, upper level work of high quality in a compacted time frame is demanded of students, the Math Department has developed recommendations for student success. These criteria are indicators of performance levels or standards for the honors or AP courses and are available from the Math Department.

Mathematics Course Listings

Sequence I General			
Course #	Title	Level	Prerequisite
4600	Practical Mathematics I	Yr. 9	
4602	Practical Mathematics II	Yr. 10	
4606	Two Year Algebra I Part I	Yr. 9-11	
4608	Two Year Algebra I Part II	Yr. 10-12	
4620	Geometry Survey	Yr. 10-12	
Sequence II-Regular & College Prep			
Course #	Title	Level	Prerequisite
4612	Algebra I	Yr. 9-10	
4622	Geometry	Yr. 9-11	
4631	Algebra II/Trigonometry	Yr. 9-12	
4632	Algebra II	Yr. 11-12	
4634	Trigonometry	Sem.11-12	
4635	Probability & Statistics	Sem.11-12	
4636	AP Statistics	Yr. 10-12	
4642	Math Analysis	Yr. 10-12	
4660	Computer Science I	Yr. 9-12	
4668	AP Computer Science JAVA	Yr. 10-12	
4670	Calculus	Yr. 11-12	
Sequence III – Accelerated College Prep			
Course #	Title	Level	Prerequisite
4624	Honors Geometry	Yr. 9-10	
4630	Honors Alg. II/Trig.	Yr. 9-11	
4636	AP Statistics	Yr. 10-12	
4644	Honors Math Analysis	Yr. 10-12	
4664	AP Computer Science JAVA	Yr. 10-12	
4668	AP Computer Science JAVA	Yr. 10-12	
4671	AP Calculus BC	Yr. 11-12	
4672	AP Calculus AB	Yr. 11-12	
4676	Calculus III	Yr. 12	

Mathematics Course Descriptions

4600 Practical Mathematics I - Grade 9. Placement required. This course is designed to meet the needs of students who have experienced difficulty in learning mathematics in a traditional format. The content of the course develops basic computational skills using a variety of activities. Activities may include lab and group projects, guest speakers, field trips and the use of hand held calculators. Experiences are designed to show students the necessity of mathematics in occupations and life situations. It is the first course in a two course sequence.

4602 Practical Mathematics II - Grade 10. Placement required. This course stresses applications of skills developed in Practical Math I. Practical problems used in everyday "real life" situations are the basis of this class. Students work with problems and consumer situations they will face after high school. Calculators will be used to assist in solving problems.

4606 Algebra I Part I (First year course of two-year sequence) - Grade 9-11. Placement required. This course is a two semester course devoted to the first half of Algebra I (#4612). It is designed for those who wish to study Algebra at a slower pace. Practice and reinforcement of Algebra-related arithmetic will be emphasized. Note-taking and study skills will be stressed and formalized. Graphing calculator required.

4608 Algebra I Part II (Second year of two-year sequence) - Grade 10-12. Placement required. Part II is a two semester course devoted to the second half of Algebra I (#4612) This course completes Algebra I at a slower pace. Note-taking and study skills will be stressed and formalized. Graphing calculator required.

Note: Students who have failed Algebra I, Semester 2 may not enroll in this course unless placement is indicated by standardized test scores and staff recommendations.

4612 Algebra I - Grade 9. Algebra I is a one year course that develops number and graphing systems and linear equations in one and two unknowns. Polynomial functions and related topics leading to a comprehension of quadratic equations are also covered. Note-taking and study skills are stressed and formalized. Graphing calculator is recommended.

4620 Geometry Survey - Grade 10-12. Placement required. Geometry Survey covers basic geometry concepts. More emphasis is placed on informal proofs and numerical and algebraic applications rather than theoretical applications of theorems.

4622 Geometry - Grade 9-11. Emphasis is placed on problem solving and geometric proofs through inductive and deductive reasoning. Course includes topics such as geometry relative to the real number system, distance concepts, angles, triangles, geometric inequalities, parallel and perpendicular lines in space, planes, polygons and circles. Right triangle trigonometry is introduced. A graphing calculator is required.

4624 Honors Geometry - Grade 9-10. In addition to covering the topics listed above for Geometry (#4622), this course provides more rigorous and in-depth approach to covering geometric ideas and formal proofs. A graphing calculator is required.

4630 Honors Algebra II/Trigonometry - Grade 9-11. This course is more rigorous than Algebra II and Trigonometry. It covers all of the same topics in more depth with some additions including sequences and series. Starting with a brief review of some basic axioms and properties in algebra, the course moves quickly to newer topics, integrating real-life applications. A graphing calculator is required.

4631 Algebra II & Trigonometry - Grade 9-12. This course expands on concepts covered in Algebra I (4612), but develops a deeper understanding, while introducing more advanced algebra topics. Trigonometry topics will be studied beyond what was previously studied in Geometry. A graphing calculator is required.

4632 Algebra II - Grade 11-12. This course is a one year course devoted to providing an understanding of advanced algebra topics and expanding on concepts of Algebra I (4612). If the student intends to take Math Analysis the following year, it is required that he or she takes Trigonometry during the summer. A graphing calculator is required.

4634 Trigonometry - Grade 11-12. One semester. Prerequisite is Algebra II. This is a one semester course which emphasizes an understanding of the theoretical and practical concepts of trigonometry, and their relationship to algebra. A graphing calculator is required.

4635 Probability and Statistics - Grade 11-12. One semester. Prerequisite is Algebra II. This is a one semester course which emphasizes basic probability and statistical techniques. A graphing calculator is required.

4636 AP Statistics - Grade 10-12. Prerequisite is Algebra II/Trig or higher. The Advanced Placement course in statistics introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students who successfully complete the course and AP examination may receive college credit and/or advanced placement. A summer reading assignment before the first day of class may be required. TI-83 PLUS graphing calculator is required.

4642 Math Analysis - Grade 10-12. This one year course serves as a prerequisite for calculus. A major emphasis is on an extended study of various functions, analytic geometry, elementary logic, mathematical induction, vectors, polynomial and transcendental functions. Trigonometric functions are utilized to solve real-world applications. A graphing calculator is required.

4644 Honors Math Analysis - Grade 10-12. This one year course is intended as the next sequential course after Honors Algebra II/Trigonometry and serves as the prerequisite for AP Calculus. In addition to those topics covered in Math Analysis, the student will study polynomial and transcendental functions, polar coordinates, and limits. A graphing calculator is required.

4660 Computer Science I - Grade 9-12. Prerequisite is Algebra I. This one year course emphasizes structured computer programming using visual basic.net. Programming is emphasized as a tool to develop problem solving, encourage student creativity, and facilitate discovery learning.

4668 AP Computer Science JAVA - Grade 10-12. Prerequisites are Computer Science I and Geometry. This one year course is a continuation of Computer Science I. The major emphasis is on designing and implementing computer-based solutions to problems, learning well-known algorithms and data structures, coding fluently in a well-structured fashion using the JAVA programming language, and reading and understanding a large program. The JAVA programming language constitutes the vehicle for implementing the solutions to the problems. Students who successfully complete the course and AP examination may receive credit and/or advanced placement for a college course.

4670 Calculus - Grade 11-12. This calculus course reviews Math Analysis concepts and introduces a study of limits, derivatives, integrals, and functions including trigonometric, exponential, and logarithmic functions. A graphing calculator is required.

***4671 AP Calculus BC** - Grade 11-12. Prerequisite is Honors Math Analysis. Topics covered will include an in-depth study of a variety of functions and a study of limits. In addition, differential and integral calculus with applications in related rates, area and volume will be covered. Further studies include sequences and series, elementary differential equations and proofs of theorems. This course demands analytical reasoning skills and disciplined study habits appropriate for continued success at the college level. Extensive independent study is required. Students who successfully complete the course and AP examination may receive credit and/or advanced placement for a year of college level Calculus. A completed summer assignment packet is required on the first day of class. A graphing calculator is required. Traditional college level Calculus I & II.

***4672 AP Calculus AB** - Grade 11-12. Prerequisite is Math Analysis. This course is similar to Calculus BC, with less emphasis on rigorous proofs and excludes some topics. The goal of this class is preparation for the AP Calculus AB Exam for college credit. The demands of this course are similar to Calculus BC and involve analytical reasoning skills and disciplined study habits. Students who successfully complete the course and AP examination may receive credit and/or advanced placement for a semester of college level calculus. Some independent study is required. A completed summer assignment packet is required on the first day of class. A graphing calculator is required. Traditional college level Calculus I.

4676 Calculus III - (Math 242 @ University of Illinois) Calculus of Several Variables - Grade 12. Prerequisite is a 26 ACT score or higher, BC Calculus and a 4 or higher on AP exam. Contact the department. This course is the third course in Calculus and Analytic Geometry. Topics include three dimensional space, functions of several variables, partial derivatives and multiple integrals. This course uses Mathematica software.

Qualifications on: <http://netmath.math.vivc.edu/whoqual.html>

* These courses may have obligations that require time outside of class period.

Music

Charles Staley, Department Chairperson - NVHS

Matt Temple, Department Chairperson - WVHS

The Music Department encourages each student to explore his/her own capabilities in the area of Fine Arts. Through the courses listed below, students are offered the opportunity to (1) perform, (2) develop aesthetic awareness and appreciation, and (3) acquaint themselves with various aspects of music theory and history.

Music Course Listings

Freshman Courses			
Course #	Title	Level	Prerequisite
4370	Cecillian Singers	Yr. 9	None
4371	Treble Choir	Yr. 10	Audition
4372	Concert Choir	Yr. 10-12	None
4373	Bass Chorus	Yr. 9-12	None
4374	Treble Choir II (Chorale)	Yr. 11-12	Audition
4376	*Varsity Singers	Yr. 10-12	Audition
4378	Music Theory	Sem 10-12	None
4392	Music Theory AP	Yr. 10-12	Music Theory and/or proficiency exam
4380	Concert Band I	Yr. 9	Audition
4391	Concert Band II	Yr. 10-12	Previous Band Experience and/or Consent of Instructor
4382	Symphonic Orchestra I	Yr. 10-12	Audition
4394	Symphonic Orchestra II	Yr. 10-12	Previous Orchestra Experience and/or Consent of Instructor
4383	*Chamber Strings	Yr. 9-12	Audition
4384	Concert Orchestra I	Yr. 9	Audition
4396	Concert Orchestra II	Yr. 9	Previous Orchestra Experience and/or Consent of Instructor
4385	Symphonic Band I	Yr. 10-12	Audition
4398	Symphonic Band II	Yr. 10-12	Previous Band Experience and/or Consent of Instructor
4386	*Wind Ensemble	Yr. 9-12	Audition
4389	Wind Symphony	Yr. 9-12	Audition
4393	*Varsity Singers Honors	Yr.12	Auditions, Previous HS Choral Experience & Consent of Instructor
4395	*Chamber Strings Honors	Yr.12	Auditions, Previous HS Choral Experience & Consent of Instructor
4397	*Wind Ensemble Honors	Yr.12	Auditions, Previous HS Choral Experience & Consent of Instructor

* This is a two period class (paired with lunch).

Music Course Descriptions

All Music classes are year-long, unless noted. Auditioned groups are designated above.

4370 Cecillian Singers - Grade 9. This is the initial choral experience for all freshman girls. Emphases are on fundamentals of vocal technique and music literacy (understanding music notation). Music is selected from all periods. Attendance at concert performances is required.

4371 Treble Choir I - Grade 10. This is a choir open to sophomore girls on the basis of audition only. Entry level expectations include the ability to read musical notation and sight-sing accurately to the satisfaction of the instructor. Literature is selected with the more proficient singer in focus. Treble Choir performs in each choral concert. Participation in concert performances is required.

4372 Concert Choir - Grade 10-12. Concert Choir is a non-auditioned ensemble open to Grade 10-12 voices. The ensemble meets daily as a treble ensemble and combines in rehearsal with the Bass Chorus (see description below) to perform SATB literature. Emphasis is placed on beginning and intermediate vocal/choral techniques and notational abilities. Literature is selected from all historical periods. Concert Choir performs at all choral concerts. Participation in concert performances is required.

4373 Bass Chorus - Grade 9-12. Bass Chorus is a non-auditioned ensemble for grade 9-12 male voices. Emphasis is placed on fundamentals of vocal technique as it applies to the changing voice, as well as music literacy. Through the study of a varied selection of music literature, students enhance their understanding of music notation and other elements of music. Bass Chorus performs at all choral concerts. Participation in concert performances is required.

4374 Treble Choir II (Chorale) - Grade 11-12. This is a junior/senior ensemble scheduled on the basis of audition only. Demonstration of advanced vocal proficiencies and sight reading ability are necessary prerequisites to placement in this class. Previous experience in an entry level choir is also an expectation. Literature is selected from all periods and styles with the capacity of the more independent vocalist in focus. Student ability to demonstrate advanced vocal techniques and a mature approach to independent achievement are necessities for success in this environment. Participation in concert performances is required.

4376 Varsity Singers - Grade 10-12. Varsity Singers is an advanced, mixed choral ensemble. Music reading abilities and the demonstration of advanced vocal proficiencies are a prerequisite for this ensemble. Literature includes advanced SATB and SSAATBB choral literature from all periods. Emphasis in the class is advanced choral techniques and independent singing skills. Students are expected to be self-motivated and leadership-oriented. Students are placed in this ensemble by audition only. Participation in concert performances is required.

4378 Music Theory - Grade 10-12. One semester. This music class is an introductory course to the basic building blocks of music. The content includes the following areas of concentration: scales, intervals, chord structure and progressions, beginning harmony, and elementary ear training. This course is especially useful for all serious music students who plan to continue in music beyond high school. Students will have the opportunity to complete assignments using MIDI keyboards and computers.

4380 Concert Band I - Grade 9. An auditioned group for students with advanced skills. Students will be expected to advance their talents through completion of technique classes. Members may participate in Solo and Ensemble Festivals. Concert performance is required at a minimum of four concerts. Membership is determined by audition and the consent of the instructor.

4391 Concert Band II – Grade 9. A non-auditioned ensemble that introduces freshmen to the high school band experience. This class provides important formative experiences in musicianship. Students will be expected to advance their talents through completion of technique classes. Members may participate in Solo and Ensemble Festivals.

4382 Symphonic Orchestra I - Grade 10-12. An auditioned ensemble for students with highly developed skills. Students will be expected to advance their talent through completion of technique classes. Concert performance is required at a minimum of four concerts. Students without previous orchestra experience need the instructor's consent before registering. Membership is determined by audition and the consent of the instructor.

4394 Symphonic Orchestra II – Grade 10-12. A non-auditioned ensemble that builds upon the formative experiences in musicianship of Concert Orchestra. Symphonic Orchestra I is an auditioned ensemble for students with highly developed skills. Students will be expected to advance their talents through completion of technique classes. Members may participate in Solo and Ensemble Festivals. Concert performance is required at a minimum of four concerts. Students without previous orchestra experience need the instructor's consent before registering.

4383 Chamber Strings - Grade 9-12. Chamber Strings is a select string ensemble which utilizes wind and percussion students from the Wind Ensemble. Emphasis will be placed on literature specific to the string ensemble with opportunities to perform with guest soloists. Students will be assigned chamber ensembles in which they will rehearse and perform. All performance opportunities and requirements for Symphonic Strings also apply to this ensemble.

4384 Concert Orchestra I - Grade 9. An auditioned group that is for students with highly developed skills. Students will be expected to advance their talents through completion of technique classes. Members may participate in Solo and Ensemble Festivals. Concert performance is required at a minimum of four concerts. Membership is determined by audition and the consent of the instructor.

4396 Concert Orchestra II - Gr 9. A non-auditioned ensemble that might be the best place for a student to become familiar with the high school level. Concert Orchestra II is composed entirely of freshmen, providing important formative experiences in musicianship. Students will be expected to advance their talents through completion of technique classes. Members may participate in Solo and Ensemble Festivals. Concert performance is required at a minimum of four concerts. Students without previous orchestra experience need to meet with the instructor before registering.

4393 Honors Varsity Singers

4395 Honors Chamber Strings

4397 Honors Wind Ensemble

Seniors enrolled in 4393, 4395, or 4397 may be eligible to take one of these courses for weighted credit. In addition to meeting all the criteria for the standard course, senior students eligible for a weighted grade will create a performance and research portfolio which will include: four small ensemble performances with a comprehensive written critique: two evaluations of concert programs: and tangible evidence of leadership activities leading to substantial musical achievement. Students may prepare auditions related to college applications in lieu of the fourth small ensemble performance. Audition and instructor's permission required.

4392 Music Theory AP - Grade 10-12. Prerequisite is Intro 4378 or placement. Music Theory AP is a continuation of Intro to Music Theory. Students will study four part writing, harmonic progression, texture, form, non-harmonic tones, and secondary dominants. Ear training and sight singing will be stressed. Students will have the opportunity to complete assignments using MIDI keyboards and computers. Students completing this course will be expected to take the AP Theory Exam as an outcome of their course work.

4385 Symphonic Band I - Grade 10-12. An auditioned ensemble for students with highly developed skills. Members of both bands will be expected to advance their talents through completion of weekly technique classes. Members may participate in Solo and Festivals. Concert performance is required at a minimum of four concerts. Membership is determined by audition.

4398 Symphonic Band II - Grade 10-12. A non-auditioned ensemble that builds upon the formative experiences in musicianship experienced in Concert Band. Members of both bands will be expected to advance their talents through completion of weekly technique. Members may participate in Solo and Ensemble Festivals. Concert performance is required at a minimum of four concerts. Students without previous band experience need instructor's permission before registering.

4386 Wind Ensemble - Grade 9-12. Wind Ensemble offers the most advanced instrumental experience through study and performance of college level works for winds and percussion. Due to the soloistic nature of part assignments, there is a strong emphasis on individual preparation for rehearsals and performance. Private study on principal instrument is strongly recommended. The Wind Ensemble performs a minimum of 4 concerts, and participates in IHSA Organizational Contests, and members are expected to participate in IHSA Solo & Ensemble Contests. Members will have the opportunity to audition for IMEA district festivals. Membership is determined by audition. Consent of the instructor and attendance at performances are required.

4389 Wind Symphony - Grade 9-12. This ensemble provides sophisticated instrumental experiences through study and performance of master works for winds and percussion. Members are expected to advance their musicianship through completion of techniques classes. The Wind Symphony performs a minimum of 4 concerts. Members may participate in

IHSA Solo & Ensemble Contests. Members may have the opportunity to audition for IMEA district festivals. Membership is determined by audition, and the consent of the instructor. Attendance at performances is required.

Physical Education, Health, Driver Education

David Perry, Department Chairperson - NVHS

Gary Shepard, Department Chairperson - WVHS

The Physical Education programs at Waubonsie Valley High School and Neuqua Valley High School seek to develop fitness in each student through a wide variety of coeducational exercise activities.

Physical Education, Health & Driver Education Course Listings

Physical Education Courses			
Course #	Title	Level	Prerequisite
4701	P.E. I - Freshman	Yr. 9	None
4702	P.E. II - Sophomore	Yr. 10	P.E. I
4703	P.E. III - Junior	Yr. 11	P.E. II
4704	P.E. IV - Senior	Yr. 12	P.E. III
4705	Adapted P.E.	Yr. 9-12	Placement
4722	CPR/First Aid/Lifeguarding	Yr. 11-12	P.E. I, II
Health Education Courses			
Course #	Title	Level	Prerequisite
4790	Health Education	Sem. 10	None
4792	Health Ed. Fundamentals	Sem. 10	Placement
4796	Advanced Health	Sem. 11-12	"C" or better in Health 4790 or Instructor approval
Driver Education Courses			
Course #	Title	Level	Prerequisite
4198-4199	Driver Education	Sem. 10-12	Minimum 8 classes passed in previous two semesters.

Physical Education & Health Education Course Descriptions

PE classes are required every semester, except when taking Health 4790.

4701 Physical Education I - Grade 9. Emphasis on physical fitness, fundamental skills and rules of each activity, and knowledge of the importance of fitness for life. The following units will be offered: Fitness Testing, Conditioning, Personal Fitness Classroom Unit, Weight Training, Softball, Basketball, Volleyball, Soccer, Badminton, Football, Team Handball, Speed training, and CPR.

4702, 4703, 4704 Physical Education II, III, IV - GRADE 10-12. Physical fitness, rules, and skills will continue to be emphasized. Development of good leadership and teamwork will be stressed. Recreational activities with carry over value will be emphasized along with team play. Dance, swimming, conditioning, and fitness testing are required units. The remaining units are selected by students. The available activities are: Fitness Tests, Conditioning, Softball, Golf, Football, Badminton, Soccer, Speedball, Swimming, Indoor Hockey, Volleyball, Tennis, Weight Training, Pickleball, Aerobic Exercise, Team Handball, Basketball, Indoor Soccer, Gymnastics, Tumbling, Floor Exercise, Applied Personal Fitness, Dance, Kayaking, Skill and Body Development, Water Polo, Modern Jazz Dance I and II, Tap Dance, various other dances, and Advanced Dance, Bicycling, Self-Defense, Bowling, CPR, Scuba, and Adventure Education.

4705 Adapted Physical Education - Placement by the department. Physical education must be provided for all public school children. "Adapted" refers to an individual physical education program designed for students with unique needs or for handicapped students. Adapted physical education gives students who cannot safely and/or successfully participate in the regular physical education program a chance to become all that one can physically be.

4722 CPR/First Aid/Lifeguarding - Grade 11-12. One semester. This semester class will meet before school in the pool. Red Cross CPR/First Aid will be taught during the first nine weeks. Lifeguarding will be taught during the second nine weeks. Successful completion of the course will result in the student receiving Red Cross certification in CPR/First Aid and Lifeguarding. This class is a special elective being offered to meet the needs of our students. No bus transportation will be available for this early morning class.

4790 Health Education - Grade 10. One semester, required by the State of Illinois to graduate. This course is incorporated into the Physical Education curriculum at the tenth grade level. It includes the following areas of study:

Wellness

Stress Management

Mental Health

Suicide Prevention

Coping with Loss

Aging, Death, and Dying

Nutrition

Male & Female Reproductive Anatomy & Physiology*

Human Growth & Development*

Abstinence*

Birth Control*

Marriage & the Family*

Sexually Transmitted Diseases*

Prevention and Control of Disease

Prevention of Alcohol, Tobacco, and other Drug Abuse

Injury Prevention and Safety

*Parents may review course materials used in the instruction of these units and elect to have their child study alternative materials during the time allotted for a unit.

4792 Health Education - Fundamentals - Grade 10. One semester. Placement by the department. This course fulfills the graduation requirements for Health Education. It is designed for students who need a practical and concrete approach to the role health plays in their lives. Emphasis is placed on the decision making process as it relates to the various units in the curriculum.

4797 Advanced Health - Grade 11-12. One semester. Prerequisite is Health 4790. This course will provide students with the opportunity to expand on their current level of health and wellness. Students will also study health issues in depth, and further explore health-related concepts. Some topics covered are health promotion, disease prevention, interpersonal communication skills, critical thinking, decision making, health careers, and current health topics. In addition, the students will also have input as to the topics covered in class.

P.E. Exemption - Juniors and seniors may be exempt from their Physical Education class during the time they are participating in an interscholastic varsity sport. Arrangements must be made with the department chair.

Driver Education

The State of Illinois requires two phases of instruction to obtain a driver's license. The classroom phase is required for graduation. Both phases may be taken from either the high school or an accredited driver ed business. If a student attends an outside agency, the student must submit proof of classroom phase completion to the guidance office. The State also requires that a student pass a minimum of 8 classes in the two preceding semesters to take Driver Ed.

Classroom Phase - The State of Illinois requires at least 30 hours of instruction if the student desires to obtain his/her legal driver license before 18 years of age. Classroom instruction is required for graduation and must be taken prior to or at the same time as the Behind-the-Wheel Phase.

Behind-the-Wheel Phase - This part of the program is voluntary. The State of Illinois requires this phase if students desire their licenses before they reach 18 years of age. At least six hours driving instruction and twelve hours of observation time is required.

4198 - 4199 Driver Education - Grade 10-12. One semester. The Driver Education program offers both classroom and behind the wheel instruction. The District reserves the right to deny a student behind the wheel instruction if it determines that the student is not capable of completing it safely.

Students will register for driver education like any other subject and will receive credit. Students are scheduled by birthdate priority. A student is not guaranteed driving during the semester he or she takes the classroom phase of Drivers Ed. Any student participating in the behind-the-wheel phase will need to provide the instructor with two checks; one payable to the Secretary of State, for the driving permit; the second check payable to School District #204 which helps to defray the expense of the driving phase, an optional service our district provides.

Science

Ray Hanus, Department Chairperson - WVHS
Paul Vandersteen, Department Chairperson - NVHS

The science curriculum is designed to meet the needs of all of our students. The curriculum is structured into three distinct sequences based upon students' abilities and a group of electives for any student. Any four semesters of science, successfully completed, may be counted to fulfill the two-year requirement for graduation. The science department believes it is in the best interest of the student to experience two disciplines of science within his/her two-year science requirement. By completing both a life science and a physical science course, a student can have a better appreciation of the scope of science, be more prepared for specific content on standardized tests, and have a solid foundation for further science exploration.

Because honors and Advanced Placement (AP) course work is accelerated and more sophisticated, upper level work of high quality in a compacted time frame is demanded of students. The Science Department has developed recommendations for student success. These criteria are indicators of performance levels or standards for the honors or A.P. courses and are available from the Science Department.

Articulated Credit with College of DuPage

If a student attends College of DuPage he/she may receive college credit with the following courses are completed with a grade of B or better. Student must be taking at least one course at COD to be in their system and must also apply for the credit within 2 years of high school graduation.

Credits	COD	Grade	NV, WV	Time
3	Ornamental Horticulture	B	4806 Horticulture	2 sem.

Science Course Listings

Sequence I: General Courses			
Course #	Title	Level	Prerequisite
4800	Principles of Physical Science	Yr. 10	Principles of Life Science
4804	Earth Science	Yr. 11-12	2 years of science or by permission
4806	Horticulture	Yr. 10 -12	Biology or by permission
4840	Astronomy: Exploring the Universe	Sem. 10 -12	None
Sequence II: Regular & College Prep Courses			
Course #	Title	Level	Prerequisite
4808	Chemistry/Physics	Yr. 10-12	4810 or 4802
4810	Biology	Yr. 9	None
4820	Chemistry	Yr. 10 -12	Biology
4832	Physics	Yr. 11-12	Biology, Chemistry, and Geometry
Sequence III: Accelerated & College Prep Courses			
Course #	Title	Level	Prerequisite
4812	Honors Biology	Yr. 9	Placement
4816	AP Biology	Yr. 11 -12	Biology and Chemistry
4818	Honors Chemistry	Yr. 9 -11	Biology and Geometry
4822	AP Chemistry	Yr. 11-12	Biology and Chemistry
4830	Honors Physics	Yr. 11-12	Biology, Chemistry, and Algebra II/Trig
4850	AP Environmental Science	Yr. 10-12	Physics & AP Calculus (AB or BC) concurrently
4852	AP Physics	Yr. 11-12	Biology, Chemistry and Algebra II/Trig

Electives			
Course #	Title	Level	Prerequisite
4804	Earth Science	Yr. 11-12	2 years of science or by permission
4806	Horticulture	Yr. 10 -12	Biology or by permission
4807	Greenhouse Mgmt. & Floral Design	Yr. 11-12	4800 & 4810 or by permission, Horticulture
4840	Astronomy: Exploring the Universe	Sem. 10 -12	None
4844	Cosmic Journey	Yr. 10 -12	Geometry or taken concurrently w/teacher permission
4846	Human Genetics, Bioethics & Biotechnology	Yr. 10 -12	Biology and Chemistry or taken concurrently with teacher permission
4848	Anatomy & Physiology	Yr. 10 -12	Biology and Chemistry or concurrently with teacher recommendation

Science Course Descriptions

All Science courses are year-long, except Astronomy.

4800 Principles of Physical Science - Grade 10-11. Placement by department. Principles of Physical Science presents concepts in laboratory science that are built upon those studied in eighth grade general science. This tenth grade science course is offered for those students who have lower math and reading skills. It is the parallel course to Chemistry/Physics 4808 with a concentration in the physical world and chemistry topics.

4804 Earth Science - Grade 11-12. Prerequisite is two years of science. This course represents an overview of the Earth. It engages each student in a laboratory study of topics in geology, including rocks and minerals, earthquakes and volcanoes, streams and glaciers. The topics of weather and climate are explored as well.

4806 Horticulture - Grade 10-12. Prerequisite is Biology. This is an ornamental plant based class with emphasis on botany, plant parts and processes, propagation, careers, and plant identification. Students are introduced to greenhouse management, landscape and floral design. The greenhouse and floral lab are used to give students a firsthand knowledge of concepts. This course is intended to be a preparatory class for students interested in majoring in biological sciences or horticulture. College credit is available to students successfully completing Horticulture and Greenhouse Management and Floral Design.

4807 Greenhouse Management & Floral Design - Grade 11-12. Prerequisite is Horticulture. This course will stress greenhouse management, plant production, and floral design. Specific plant growth topics including, but not limited to, botany, plant identification, plant management, propagation and careers will be stressed. Extensive use of the lab facilities and the greenhouse will be used to demonstrate concepts and supply students with first hand knowledge of plant growth and management practices. The students will create a greenhouse design and management project. Students receiving an A in both classes will be eligible for articulated credit at COD. This course will serve as a co-op work partnership with various Horticultural businesses in the Aurora/Naperville area. A student who successfully completes this class may enroll in an internship class in Business 4197 or FACS 4497.

4808 Chemistry/Physics - Grade 10-12. Prerequisite is one year of science. This course provides students with a solid foundation of physical science and the laboratory techniques used to test and support such knowledge. One semester is an introduction to the principles of chemistry; the other is an introduction to the principles of physics.

4810 Biology - Gr.. 9. This laboratory is the traditional biology course. It is organized and conducted to provide the average student with a sound and comprehensive understanding of biology. Strong emphasis is given to understanding fundamental biological processes and how they apply to our daily lives.

4812 Honors Biology - Grade 9. Weighted grade. Students in freshman Honors Biology learn biology concepts based on the National Science Standards through creative and critical thinking skills in a hands-on approach. The laboratory experiences emphasize biology as an investigative process based on inquiry. Creating hypotheses by studying the facts and devising an explanation for them is a crucial part of this curriculum. Teaching strategies enable students to learn science through a natural development process. Beginning with exploration and moving through invention to

application, students build solid foundations in biological concepts and theories while developing higher-order thinking skills. Suggested recommendations.

4816 AP Biology - Grade 11-12. Suggested recommendations are Biology and Chemistry. Weighted grade. This course is a college level laboratory course dealing with advanced topics in biology. There are twelve mandatory laboratory experiences dealing with such topics as diffusion, osmosis, enzyme catalysis, molecular biology, and genetics. Students may receive college credit in biology by qualifying on an examination administered by the College Entrance Examination Board at the end of the course.

4818 Honors Chemistry - Grade 10-12. Weighted grade. Prerequisites are Biology and Geometry. This course introduces students to the fundamental concepts and theories of chemistry. The pace and scope of the course are designed for the above average student. This laboratory course emphasizes problem-solving, analysis, critical thinking, and experimentation.

4820 Chemistry - Grade 10-12. Prerequisite is Biology. This course introduces the college bound student to basic chemical principles through lecture, laboratory and group work. The laboratory emphasizes the discovery of key concepts through the analysis of student generated data. An "A" or "B" in Algebra I or Geometry is strongly recommended.

4822 AP Chemistry - Grade 11-12. Prerequisites are Chemistry and Algebra II/ Trigonometry. Weighted grade. Advanced Chemistry is a college level laboratory course dealing with advanced topics in inorganic chemistry. Students may receive college credit in Advanced Chemistry by qualifying on an examination administered by the College Entrance Examination Board at the conclusion of the course. This course is weighted and emphasizes problem solving and lab experience. It is a good preparation for chemistry, engineering and medical careers. Honors Chemistry is strongly recommended.

4830 Honors Physics - Grade 11-12. Prerequisites are Biology and Chemistry. Weighted grade. This course introduces students to the basic concepts and theories of physics. The pace and scope of this course are designed for the above average student with a sound understanding of algebra, geometry, and trigonometry. This course emphasizes problem-solving and experimentation. Honors Math Analysis is strongly recommended.

4832 Physics - Grade 11-12. Prerequisites are Biology, Chemistry, Algebra, and Geometry. Physics presents a practical overview of general classical and modern physics topics. In this introductory course the emphasis will be upon laboratory investigations leading to a firm grasp of conservation of momentum, energy and charge. The math requirement entails proficient use of algebra and plane geometry.

4840 Astronomy: Exploring the Universe - Grade 10-12. Semester course. This is an introductory course that focuses on observational astronomy. The planetarium is used in order for students to comprehend observational techniques and coordinates that help them observe the heavens. Seasonal stars and constellations, their mythologies, and constellation creation are the main focuses of this class.

4844 Cosmic Journey - Gr. 10-12. Prerequisite is geometry (may be taken concurrently). Students begin their journey at the time of the Big Bang and explore the universe through the eyes of Galileo, Copernicus, Kepler, Newton and other great minds. As they journey into present times, they learn about the extinction of the dinosaurs, the solar system, galaxies, stars, black holes, and the laws that govern the universe. Many laboratory experiences and group projects, along with trips to the planetarium, will be used to reinforce the astronomical concepts learned in class. Each student will also construct his own refracting telescope. A field trip to the Museum of Science and Industry to explore the Henry Crown Space Center and the Omnimax Theatre are also included.

4846 Human Genetics, Bioethics, and Biotechnology - Grade 10-12. Prerequisite is Chemistry (may be taken concurrently). This college level course introduces students to the fundamental concepts of genetics. It is designed to acquaint students with not only the classical patterns of inheritance but also with the present day findings in molecular genetics. Laboratory experiments provide active participation in demonstrating and applying the concepts and theories of genetics and biotechnology. Present day bioethics issues in biotechnology are addressed.

4848 Anatomy and Physiology - Grade 10-12. Prerequisite is Chemistry (may be taken concurrently). This college level course introduces students to the fundamental concepts of human anatomy and physiology. Particular emphasis is placed on animal dissections to help the students learn how the human body functions.

4850 AP Environmental Science - Grade 11-12. Prerequisite is Chemistry. Weighted grade. The goals of the AP Environmental Science course are to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world; to identify and analyze environmental problems both natural and man-made; to evaluate the relative risks associated with these problems; and to examine alternative solutions for resolving and/or preventing them. Environmental science is interdisciplinary, embracing a wide variety of topics that include ecology, geology, history, sociology, economics, and chemistry. Field experiences may include a four-day trip to northern Wisconsin, and/or one-day trips to a local prairie, stream, and forest. There is a one-time fee associated with the experiences.

4852 AP Physics - Grade 11-12. Prerequisites are Chemistry and Calculus (may be taken concurrently). Weighted grade. This calculus-based college style physics course is structured to provide a strong preparation in physics for those intending to major in engineering, mathematics, physics, astronomy, or medicine. Students may receive college credit in Advanced Physics by qualifying on an examination administered by the College Entrance Examination Board at the end of the course.

Social Studies

Hugh Flanders, Department Chairperson - NVHS
Don Pankuch, Department Chairperson - WVHS

Responsible participatory citizenship in our democratic republic is the major goal of our Social Studies program. The basic course offerings should enable the student to develop the necessary skills and understandings to achieve this goal.

Social Studies Course Listings

Freshman Courses			
Course #	Title	Level	Prerequisite
4902	World Geography	Yr. 9	None
4904	Government Fundamentals	Sem. 12	Placement
4906	Government	Sem. 12	None
4910	Honors World History	Yr. 9	None
4920	U.S. History Fundamentals	Yr. 11-12	Placement
4922	U.S. History, Traditional	Yr. 10-12	World History or World Geography
4924	AP United States History	Yr. 11-12	World History or World Geography
4930	Sociology	Sem. 11-12	None
4936	American Studies	Yr. 10-12	World Geography or World History
4940	Psychology I	Sem. 11-12	None
4942	Psychology & Group Behavior	Sem. 11-12	None
4944	AP Psychology	Sem.11-12*	Psychology I
4952	U.S. Geography	Sem. 11-12	U.S. History or American Studies
4956	Military History	Sem. 11-12	U.S. History or American Studies
4958	AP Politics & Government	Sem. 12*	None
4960	AP European History	Yr. 10-12	World History
4929	American Society	Yr. 10	World Geography or World History
4932	Adventure Studies	Sem. 11-12	Application & Interview Process

*Offered 2nd semester only

Social Studies Course Description

4902 World Geography - Grade 9. Two semesters. The study of world geography provides students with a strong foundation for future social studies courses. Students will work on cartography skills and learn about the complex interrelation of physical, cultural, and economic geography. An emphasis is placed on the historical and political changes occurring within each region of study and the impact the geographic factors have on the day-to-day lives of people. The following regions of the world will be covered: Russia and the Republics, the Middle East, Africa, India, China, Japan, South East Asia, and Australia. Throughout the course students will also analyze and develop a deeper understanding of a wide range of global issues: Human rights, terrorism, A.I.D.S., overpopulation, resource allocation, environmental dangers, world trade, emerging nationhood, and independence. The major world religions will also be studied. Students will develop critical thinking, reading, writing, and speaking skills and they will consistently work in the computer labs as they study regional issues. Regular homework reading beyond the textbook will be required. This course or World History is required for graduation.

4904 Government Fundamentals - Grade 12. One semester. Placement by department. Emphasis is placed upon the primary development of our political principles and the structure and functions of our government. (Satisfies graduation requirement.)

4906 Government - Grade 12. One semester. Government introduces the student to the basic principles of political science. Emphasis is placed on students becoming part of an active citizenry. The semester course covers Philosophy,

the Constitution, Political Parties, Campaigns and the three branches of American Government. Group and individual projects are utilized. This class is required for graduation. Federal and State Constitutional graduation requirements will be covered in this course. (Satisfies graduation requirement.)

4910 Honors World History - Grade 9. Two semesters. Weighted grade. This course is presented from a geographical, political, and cultural point of view. The first semester begins with Ancient Egypt and concludes with the Renaissance. The second semester presents the rise of nation states, age of exploration, western imperialism, the Industrial Revolution, and concludes with the first World War. This course is recommended for advanced students. This course or World Geography is required for graduation.

4920 United States History Fundamentals - Grade 11. Two semesters. Placement by department. This course involves the exploration of U.S. History through alternative teaching styles and learning techniques. Emphasis is placed upon the primary development of our economic, political, and social issues throughout time. First semester explores the foundation of the U. S. Topics include the U.S. Constitution, Old West, Chicago History and Inventions. Second semester explores the development of the U.S. both internally and as a global power. Topics include the 20's, the Great Depression, WWII, Korea, Civil Rights, Vietnam and contemporary issues. This course satisfies a graduation requirement.

4922 United States History Traditional - Grade 10-11. Two semesters. This course is a comprehensive study focusing on major themes and concepts essential to understanding American economic political and social institutions. Learning emphasizes analytical writing, interpreting historical documents, developing both written and oral communication skills, understanding cause and effect relationships, discovering the significance of people, places and events impacting U.S. History, and applying historical principles in today's world. First semester explores the foundations of the U.S. Topics include the Constitution, Minorities, Innovations, Chicago History, and Reform. The second semester explores the 20th Century by decades and traces the development of the U.S. both internally and as a global power. Key topics include morality in the 1920's, The Great Depression, The Homefront during WW II, the struggle for Civil Rights, The Vietnam Era and contemporary issues. This course satisfies a graduation requirement.

4924 AP United States History - Grade 11-12. Two semesters. Weighted grade. This course in American history is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in American history. The course will prepare students for intermediate and advanced college courses by making demands upon them equivalent to those of full- year introductory college courses. Students could receive college credit in American History by qualifying on an examination administered by the College Entrance Examination Board at the conclusion of the course. A summer requirement involving reading and writing assignments must be successfully completed prior to the first day of class. Summer project and assignment outside of school day required.

4930 Sociology - Grade 11-12. One semester. Sociology will provide students with the basic concepts and tools necessary for understanding human social behavior in a complex world. The course examines the structures and functions of society from a purely sociological perspective and then examines current social issues in America. Topics to be covered include; culture, socialization, class status, urbanization, religion, family, prejudice, discrimination, and crime. Possible activities include field trips to Chicago and participation in Project Sleep Out. This is a college prep course which requires challenging reading

4936 - American Studies - Grade 10-12. Two semesters. This year long course is an option within the U.S. History program and fulfills the U.S. History graduation requirement. American Studies is an in depth coverage of U.S. History as shaped by American culture. The multicultural approach integrates history, art, music, literature, and architecture. Towards this end, course activities demand active student participation, intensive outside readings and challenges beyond the classroom. Students who are interested in studying history through this multicultural approach will enjoy American Studies.

4940 Psychology I - Grade 11-12. One semester. Psychology is the study of the behavior of living things. This course will provide students with an understanding of their own behavior, as well as the behavior of other individuals in society. Students will receive an overview of the many subfields of psychology, including: an introduction to the scientific method, study of the brain, sleep and dreams, learning theory, memory, intelligence, personality, and mental health and abnormal behaviors. This is a college-prep course which requires challenging reading. There will be an emphasis on student-centered projects. Opportunities will also be available to work with the "Kid-to-Kid" program.

4942 Psychology and Group Behavior - Grade 11-12. One semester. Placement by department. Psychology and Group Behavior is a fundamental-level course combining the basic theories of psychology and sociology, allowing students to develop a perspective on their own life experiences and their relationship to the structure of our society

and its pressures. The content will focus on personality theory, group and family interaction, mental illness, therapy, cultural awareness, and socialization issues. "Hands-on" learning, class discussions, role-playing, guest speakers, lectures, projects, and paperbacks relevant to the above topics will be incorporated. Opportunities are available to work with "Kid-to-Kid" and Hessed House.

4944 AP Psychology - Grade 11-12. One semester (2nd semester only). Weighted grade. Prerequisite is Psychology I. Building upon the principles of Psychology I, this course is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in psychology. The course will prepare students for intermediate and advanced college courses by making demands upon them equivalent to those of full year introductory psychology courses. The content will focus on advanced experimental design, biological functioning, sensation and perception, motivation and emotion, developmental psychology, psychological disorders and their treatments, and social psychology. Intensive reading and writing skills will be a major focus, as will hands-on research and experimentation. This course will prepare the students to take the A P Psychology exam.

4952 United States Geography - Grade 11-12. One semester. This course is designed to provide students with geographical knowledge of the United States studied from both a regional and an urban approach. Various environmental issues are studied. A three week unit on the geography of Illinois is included. Students will learn to read maps, create maps and contour models, learn surveying skills, and use compasses and GPS units. Supplemental reading is required.

4956 Military History - Grade 11-12. One semester. Prerequisite is U.S. History or American Studies. This course is designed to deal with the various aspects of warfare throughout human history. Topics include the nature of war, its causes, and its effects on society; technology and methods of warfare; the great leaders Napoleon, Alexander, Edward I, Rommel and others; crucial battles and their effect on history; and present and future trends in warfare.

4958 AP International Politics and Government - Grade 12 Two semesters. Weighted Grade. Satisfies Federal and State Constitutional graduation requirements. This introductory college-level course provides students with conceptual tools necessary to develop an understanding of the world's diverse political structure and practices. With a focus on American government and politics during the first semester, and comparative governmental systems during the second semester, the course encompasses the study of both specific countries and their governments. Upon successful completion of this course, students may take AP exams in U.S. Government and /or comparative politics.

4960 AP European History - Grade 10-12. Two semesters. Weighted grade. Prerequisite is World or U.S. History. The purpose of this full-year elective is to give students an opportunity to explore in depth principal themes of modern European history from the High Renaissance to the recent past. Students who are particularly interested in a more in-depth approach, developing an understanding of the importance of analyzing historical documents, and expressing this understanding in writing would benefit from this course. The AP European History course prepares students for the AP examination and intermediate and advanced college course work. A summer reading and writing assignment must be completed prior to the course. In order to take this course, a sophomore should have an A or B in World Geography or Honors World History. If students plan to take AP European and AP US History, it is recommended that they take AP European first as a sophomore. Summer project and assignments outside of the school day required.

4929 American Society: Interdisciplinary American Studies/English II – Grade 10. This is a year long two period Block Class. Prerequisite is World Geography or World History. This yearlong course provides a two-credit alternative to separate American Studies and English classes. Students will receive individual grades for each course and will fulfill the graduation requirements for both U.S. History and English. The linkage between the two courses allows for many opportunities to emphasize the connections between American history, literature, art, music and architecture through team-teaching, and joint assignments and projects. The course demands active student participation, intensive outside reading, and challenges beyond the classroom setting (i.e. field trips, projects). Students who are interested in studying history and English through this creative, humanities emphasis will enjoy this option.

4932 Adventure Studies and Pursuits - Grade 11-12. One semester. Blending a curriculum of geography, physical education, and leadership, this interdisciplinary class provides a unique learning experience to students. Students are required to participate in daily classroom sessions and various out of school trips (including weeknights, weekends, and days off) that combine traditional classroom subject matter with the adventure education activities of hiking, backpacking, and rock climbing. Course units will include geography topics on landforms, weather, public land management, wilderness ethics, and navigation, as well as physical education units on backpacking, wilderness first aid, rock climbing, nutrition, outdoor cooking, and expedition planning. Leadership skills and decision-making are interwoven throughout all class experiences. Students are expected to be relatively active and physically able to

participate on numerous planned adventures that occur beyond the school day and could last from one to five days. Outside readings and a final project will also be required. Due to the amount of time spent out of the traditional classroom, students will earn one semester (1/2 unit) of credit in Social Studies as well as be exempted from their physical education requirement for the semester. Students may need to purchase individual equipment for the class and a participation fee is required.

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