

Rhineland High School

Career Readiness and Course Description



2012-2013

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Notes

ADD/DROP GUIDELINES

RHS student schedules are created with care and teaching positions are allocated based on student course requests. Because of this, schedule changes are not taken lightly. Please note the following:

1. Add/Drop procedures require a student to complete a “Student Schedule Change/Adjustment” form, returned to Student Services and may require administrative approval.
2. At the beginning of a semester, if significant educational reasons are presented, a course may be dropped with a determination made as to where to appropriately place a student.
3. After the fourth Friday of a semester, a student may request to drop a course. If the course is dropped, an “F” will be recorded on the final transcript.
4. Students need to attend course(s) until informed of any schedule change.

THERE MAY BE EXTENUATING EDUCATIONAL CIRCUMSTANCES THAT ARISE WHICH NECESSITATE A SCHEDULE CHANGE. EXCEPTIONS WILL BE CONSIDERED AND DETERMINED BY ADMINISTRATION.

ALTERNATIVE COURSE OPTIONS

Independent Study

The intent of independent study is to provide students the opportunity to expand their knowledge in curricular areas beyond the scope of what is offered at RHS. When a student has exhausted all courses in a sequence, yet wants to learn more, independent study provides that individual option for a student and teacher to work together to expand learning. An independent study contract needs to be prepared listing the reasons for the course of study, the objectives covered, the methods of evaluation, and the outcomes of the study. (.5) credit will be awarded upon the successful completion of each study opportunity.

Independent Instruction

Independent instruction is simply an agreement between a teacher and a student for the teacher to instruct the student in regular class content, just at a different time than when the class is offered. An example would be for a Spanish 4 student to work with a Spanish teacher during the teacher’s study hall time, because the student has another class when the teacher is teaching the other Spanish 4 students.

Student Aide

This is a non-credited opportunity for a student to be a “helper” to a teacher instead of being in study hall. The student and a cooperating teacher sign an agreement, and the teacher becomes responsible for the student’s activities much the same as a study hall setting. This is preferably arranged during a teacher’s preparatory time.

Student Volunteer

This is a credit earning opportunity for a student to volunteer in a setting where a learning plan would provide students with meaningful opportunities. An example of this would be a student, who desires to become a teacher, would leave RHS to volunteer every day in an elementary school classroom. The student and the cooperating elementary teacher would sign an agreement and list learning activities that would result in earning RHS credit.

Senior Work Experience

The School District of Rhineland has allowed students, via board policy, to earn credits for meaningful work experiences in the community. This is a formal agreement between a student, RHS, and an employer in the

community. A contract is signed prior to the beginning of this experience and pay stubs from the employer are necessary for the accounting of student work hours. One hundred ten hours (110) of work will equal one half (0.5) RHS elective credit.

GRADE POINT AVERAGE AND WEIGHTED GRADES

GRADE POINT AVERAGE

Rhineland High School uses two different grade scales in classes. One is the more traditional 100% scale and the other is a 4 to 0 grade scale. The 4 to 0 grade scale is used in 9th and 10th grade core classes, the 100% scale is used in all other classes. To calculate GPA from these scales, the following points are assigned to letter grades:

100% Scale		4 - 0 Scale	
A	= 4.000	A	= 4.000
A-	= 3.667	A/B	= 3.500
B+	= 3.333	B	= 3.000
B	= 3.000	B/C	= 2.500
B-	= 2.667	C	= 2.000
C+	= 2.333	C/D	= 1.500
C	= 2.000	D	= 1.000
C-	= 1.667	F	= 0
D+	= 1.333		
D	= 1.000		
D-	= 0.667		
F	= 0		

All teachers use a weighted average in the class gradebook. This means that the overall final grade is based more heavily on student performance on tests/quizzes/projects than on homework completion or daily classwork. The two weighting systems are either:

**10% Homework, 30% Quizzes/Labs/Projects, 60% Tests/Major Assignments*

-OR-

**20% Homework, 30% Quizzes/Labs/Projects, 50% Tests/Major Assignments. Each teacher will indicate the weighting used for each class at the beginning of each class term.*

WEIGHTED GRADES

When applicable, (U) indicates a course that adds a value to a student's Grade Point Average (GPA). For any (U) course, .03 is added to a student's GPA, regardless of the grade received.

COLLEGE IN THE SCHOOLS

Advanced Placement

Students may receive college credit, at some schools, for scores received on the College Board Advanced Placement Test. After completing specific RHS Advanced Placement (AP) courses, students may take the AP Exam in the spring of the year. Scores of 3 or higher on the AP Exam make them eligible to receive college credit at some schools.

Transcripted Credit

Transcripted Credit is a dual credit arrangement where RHS students earn both high school and college credit. Nicolet Area Technical College courses are taught in the high school by college certified high school teachers. There is no cost to the student or the high school for the credits. These credits may transfer to other technical colleges or universities.

Youth Options

Juniors and seniors at RHS in good academic standing and on track for graduation can enroll in courses at Nicolet College or other post-secondary schools, full or part-time, and earn both high school and college credit. Rhinelander School District will pay the cost of tuition and books for non-comparable courses, which are courses that are not offered at RHS. Students are responsible for submitting required forms for spring semester by October 1st; fall semester by March 1st. Students who drop courses or receive an “F” in the college course will be required to reimburse RHS for the tuition and book charges.

COURSE SELECTION

English 4.0 credits:

- 9th grade, teacher recommendation for either English Survey 1a/1b or Accelerated English Survey 1a/1b.
- 10th grade, teacher recommendation for either English Survey 2a/2b or Accelerated English Survey 2a/2b.
- 11th and 12th grade select courses to complete graduation requirements and prepare for post secondary plans.

Math 2.0 credits:

- 9th, 10th, 11th, 12th grades, teacher recommendations for math classes may be made, based on previous courses and grades.
- If you are currently failing the math course you have selected, you may be advised to schedule a lower level math course next semester or will need to repeat the failed course.

Science 2.5 credits:

- 9th and 10th grades, teacher recommendations for science classes may be made, based on previous courses and grades.
- 9th grade students are recommended to take at least 1.0 credit of Science.
- Earth, Environmental and Physical Science are available to any student, grades 9-12.
- Physical Science and Biology 1 & 2 -OR- Science 9a & 9b and Science 10a & 10b are graduation requirements.

Social Studies 3.5 credits:

- 9th grade, teacher recommendations for either Global Studies 1a & 1b -OR- Accelerated Global Studies 1a & 1b.
- 10th grade, US History a/b -OR in 11th or 12 grade, AP US History a/b (1.0 credit of either US History or AP US History) is a graduation requirement

Physical Education 1.5 credits:

- 9th graders are required to take PE 9.
- 10th graders are required to take PE 10.
- An additional Physical Education course is required for graduation in 11th or 12th grade.
- Seniors have the option of taking 2 PE courses as electives.

Prerequisites:

- Students need to check the prerequisites for courses they would like to select.

Electives:

- Students can select any course open to their grade for which they have completed the prerequisite(s).

SELECTING YOUR COURSES

Students should keep in mind the various reasons for selecting courses, including the following:

- *A course is required for high school graduation.
- *A course is required as a prerequisite for what they want to do after high school, such as Algebra 2 for direct admission into a 4 year college or university.
- *A course, although not specifically required, will provide the student with valuable knowledge, experience or skills throughout their life.
- *A course is chosen because the student enjoys an area, giving the student a further opportunity to enrich their life and to continue developing interests and abilities.

GRADUATION REQUIREMENTS

Students need 22 credits to earn a diploma from Rhinelander High School.

All courses listed below are worth .5 credit

Subject	Class Selection	Credits	Grade
English		4	
English Survey 1 a / Accelerated Eng. 1 a		0.5	9
English Survey 1 b / Accelerated Eng. 1 b		0.5	9
English Survey 2 a / Accelerated Eng. 2 a		0.5	10
English Survey 2 b / Accelerated Eng. 2 b		0.5	10
Writing Elective		0.5	11, 12
English Electives		1.5	11, 12
Social Studies		3.5	
Global Studies a / Accelerated Glob. St. a		0.5	9
Global Studies b / Accelerated Glob. St. b		0.5	9
US History a / AP US History a		0.5	10
US History b / AP US History b		0.5	10
Social Studies Electives		1.5	11, 12
Science		2.5	
Physical Science / Science 9 a and b		0.5/1.0	9
Biology 1/Science 10a		0.5	10
Biology 2/Science 10b		0.5	10
Science Electives		0.5 or 1.0	11, 12
Math		2	
Algebra a / Integrated Math 1 a		0.5	9
Algebra b / Integrated Math 1 b		0.5	9
Geometry a / Integrated Math 2 a		0.5	10
Geometry b / Integrated Math 2 b		0.5	10
Physical Education		1.5	
Phy. Ed. 9			9
Phy. Ed. 10			10
Phy. Ed. Electives			11, 12
Health		0.5	8, 9, 10, 11, 12
Electives		8	9, 10, 11, 12

PLANNING YOUR HIGH SCHOOL COURSES

A key step to planning for your future is selecting the correct high school courses now. Your future plans should influence the courses you choose to take. If you are not sure what you want to do after high school, explore resources, consider job shadowing, talk to your teachers and/or high school counselor. An excellent link to resources regarding career exploration, events, colleges, military, and financial aid for post secondary options are available at the Rhinelander High School Student Service's website, www.rhinelander.k12.wi.us/rhs/rhs_student-serv.cfm Be sure to utilize WisCareers, a career exploration program at <http://wiscareers.education.wisc.edu> RHS students also use Career Readiness, a web based program designed to assist students in planning for their future.

Types of Postsecondary Education

Four-Year Baccalaureate

- These schools offer courses leading to a four-year Bachelor of Art or Bachelor of Science degree.
- Universities can be public (like UW-Eau Claire) or private (like Marquette University).
- Wisconsin has over twenty private colleges and universities and thirteen public universities.
- Although the tuition at some private schools may seem too expensive at first glance, they may be able to offer enough financial aid and scholarships to make the cost comparable to that of a public university.

Proprietary Schools

- Schools that specialize in a specific trade or skill.
- Examples would be truck driving, art, or culinary school.
- Entrance requirements are generally open, although art schools for example, may require you to submit a portfolio.
- They may offer certification, licensing, or associate degrees.

Technical

- Technical schools have programs that can lead to a certificate, a vocational (one-year) degree or an associate degree (generally two years).
- Most technical colleges also have a liberal arts transfer program that allow students to earn college credit in general courses for two years and transfer to a four-year school to complete their bachelor's degree. Other individual courses may also transfer to a four-year college or university. An example of a technical college is Nicolet Area Technical College.
- There are sixteen technical colleges across the state with a variety of career-oriented programs that last from a few months to two years.
- Students with a high school diploma that seek admission to a Wisconsin technical schools may need successful completion of specific courses in high school.

Two Year College, Junior and Community Colleges

- The University of Wisconsin has thirteen two-year extension campuses located throughout the state. UW-Marathon in Wausau is an example of a UW college campus.
- These campuses have more liberal admission requirements and slightly lower tuition. Credits specifically transfer to any UW four-year college and typically to any four-year college or university.
- Depending on the location, campuses may offer housing and a limited range of extra-curricular activities.
- Admission requirements for the UW colleges are the same as those listed below for UW four-year campuses.

POST-SECONDARY EDUCATION ADMISSION

High school graduation requirements are different from the entrance requirements for specific colleges and universities. The requirements listed below are minimum requirements for students to be eligible for admission to these institutions. Students are encouraged to exceed these minimum requirements and to challenge themselves by taking rigorous courses, including Advanced Placement courses, to be competitive in the collegiate admissions process.

University of Wisconsin System

Students must meet the following minimum requirements in order to be eligible for admission:

English	4 credits
Mathematics (Algebra 2a/b)	3 credits
Science	3 credits
Social Studies	3 credits
Fine Arts/Electives/Language	4 credits

Two years of a single foreign language are required for admission to UW-Eau Claire and UW-Madison, and strongly recommended at other UW System campuses.

Wisconsin's Technical Colleges

The following are *recommended* high school credits for adequate, comprehensive preparation for success in technical college programs:

English	4 credits
Mathematics	3 credits
Science	3 credits
Social Studies	3 credits
Technical Courses	3-4 credits

Technical college programs have admission standards, and some programs have waiting lists. Apply early and seek your counselor's advice regarding your chosen program.

Wisconsin's Private Universities

Students must meet the following minimum requirements in order to be eligible for admission:

English	4 credits
Mathematics (Algebra 2a/b)	3 credits
Science	3 credits
Social Studies	3 credits
Foreign Language	2 credits

Considerations for admission include either ACT or SAT scores and grades earned within the context of courses taken, as well as the challenge level of the courses.

Nation's Top Universities

Students must meet the following minimum requirements in order to be eligible for admission:

English	4 credits
Mathematics (Algebra 2a/b)	4 credits
Science	3-4 credits
Social Studies	3 credits
Foreign Language	3-4 credits

Considerations for admission include either ACT or SAT scores and grades earned within the context of courses taken, as well as the challenge level of the courses.

RHINELANDER HIGH SCHOOL 4 YEAR PLAN

Fill in your course selections below

Grade 9

Semester 1

Semester 2

Grade 10

Semester 1

Semester 2

Grade 11

Semester 1

Semester 2

Grade 12

Semester 1

Semester 2

SCHOOL TO WORK

School to Work provides opportunities for students to explore a variety of experiences to help them make better decisions about their future. RHS students have the option of participating in job shadowing, employability skills classes, the Medical Services Academy. For more information about School to Work programs, contact the School to Work Coordinator, Teri Phalin.

Employability Skills Certificate Program

The Employability Skills Certificate (ESC) program is a course of study that connects curriculum and employment. Students learn essential employment skills in the classroom and then apply them in the workplace under the supervision of a mentor and their classroom teacher. Upon completion of this program students are recognized with a state-issued certificate for the mastery of skills most valued by employers. Students will receive high school credit for the completed employability skills course as well 0.5 credit upon successful completion of the Employability Skills checklist and the required 90 hours of paid work experience.

Medical Services Academy

The Medical Services Academy (MSA) is available to Juniors and Seniors through a partnership with St. Mary's Hospital and Ministry Medical Group. MSA is a focused clinical observation experience that introduces students to medicine through exposure to a wide variety of medical professions. Interested students must have successfully passed or be enrolled in good standing in the Introduction to Medical Careers course. An application to MSA must be completed and returned to the School to Work Coordinator by the third Friday in October, at which time interviews will be scheduled. Applications are available on the Rhinelander High School Website and from the School to Work Coordinator. Selected candidates will be notified of acceptance prior to December. Observations will begin 2nd Semester.

VIRTUAL LEARNING

The School District of Rhinelander uses a variety of curricula to offer virtual learning options to students. RHS uses Wisconsin Virtual School (WVS) and Odysseyware. WVS includes online courses for grades 6-12 with Wisconsin certified teachers. WVS offers a variety of courses including core subjects, electives, and Advance Placement. The complete list can be found at www.wisconsinvirtualschool.org Odysseyware includes online courses in core curricular areas for grades 6-12 with School District of Rhinelander teachers. Odysseyware gives a blend of core academics, with the local support of a Rhinelander teacher. The complete list can be found at www.odysseyware.com

Students choosing to utilize virtual options must have the approval of an RHS administrator. For more information about Virtual Learning, contact the Virtual Learning Coordinator, Kandi Bartelt.

WIAA ELIGIBILITY

Students involved in activities that are governed by the School District of Rhinelander Activity Code are reminded, that according to the Activity Code, they must be enrolled in 5 courses (or 2.5 credits) each semester. Anyone with questions regarding the Activity Code should contact the Activities Director, Mr. Charlie LaHam.

CAREER CLUSTERS





Example

Career Cluster-
Manufacturing

Career Pathway-
Maintenance Installation
and Repair

Program of Study-
Electro-mechanical

Individual Learning Plan-
A plan for coursework
related artifacts, and
experience from 8th grade
through 14 and beyond





INTERESTS & ABILITIES

Careers in agriculture, food and natural resources encompass science, marketing, service, production, supply, processing, preservation of the food supply, plants, animals and natural resources. This area employs over 12 percent of Wisconsin's workforce.



Activities that describe what I like to do:

- Learning about different foods
- Learning about where foods come from
- Learning about different plants
- Exploring nature and learning about its resources
- Learning about different animals

Personal qualities that describe me:

- Nature Minded
- Outdoors enthusiast
- Strong
- Business oriented
- Environmentally Aware

School subjects that I like:

- Math
- Science
- Technology Engineering and Manufacturing

PATHWAYS IN THIS CLUSTER

- Agribusiness Systems
- Animal Systems
- Environmental Service Systems
- Food Products and Processing Systems
- Natural Resource Systems
- Plant Systems
- Power, Structural & Technical Systems

SUGGESTED COURSES FOR THIS CLUSTER	ADDITIONAL COURSES FOR SPECIFIC PATHWAYS	
<p>Automotive Systems AP Biology AP Chemistry Culinary Basics Earth Science Engineering Materials Environmental Science Integrated Math 1, 2, 3 Intermediate Writing Physics Power Mechanics Wisconsin Studies</p>	<p><u>Agribusiness Systems:</u> Accounting AP Biology</p> <p><u>Animal Systems:</u> AP Biology Vertebrate Biology</p> <p><u>Environmental Service Systems:</u> Earth Science Environmental Science</p> <p><u>Food Products and Processing Systems:</u> Culinary Basics ProStart</p>	<p><u>Natural Resource Systems:</u> Earth Science Environmental Science</p> <p><u>Plant Systems:</u> Introduction to Analytical Chemistry</p> <p><u>Power, Structural & Technical Systems:</u> Automotive Systems Digital Electronics Engineering Materials Welding</p>

Courses listed within this plan are only suggested coursework and should be individualized to meet each learner's educational and career goals

CAREER OPTIONS IN AGRICULTURE, FOODS & NATURAL RESOURCES

* =Entry Level
 ** =Certificate, Technical or Associate Degree or Apprenticeship
 *** =Bachelor or Advanced Degree
 HOT*** =An occupation that is expected to grow over the next 10 years.

Agribusiness Systems Pathway

Agribusiness Supervisors
 Dairy Farmers
 Farm Product Purchasing Agents
 Farm Supervisors
 Fish Farmers
 Fishers
 Fruit Tree Farmers
 Horticultural Specialty Farmers
 Hunters and Trappers
 Hydroponic Farmers
 Log Graders
 Loggers
 Nursery and Greenhouse Managers
 Pest Control Technicians
 Ranchers
 Small Business Owners
 Street Vendors

Animal Systems Pathway

Agriculture Inspectors
 Agricultural Workers
 Animal Scientists
 Animal Trainers
 Biological Scientists
 Biological Technicians
 Dairy Farmers
 Extension Agents
 Kennel Owners
 Pet Groomers
 Ranchers
 Veterinarians
 Veterinary Researchers
 Veterinary Technicians

Environmental Service Systems Pathway

Conservation Wardens
 Environmental Engineers
 Environmental Technicians
 Environmentalists
 Hydrologists
 Industrial Waste Inspectors
 Soil Conservationists
 Wildlife Biologists

Food Products & Processing Systems Pathway

Agricultural Engineers
 Agricultural Graders and Sorters
 Agricultural Inspectors
 Butchers and Meat Cutters
 Cheese Makers
 Chemical Technicians
 Ecologists
 Food Processing Technicians
 Food Technologists
 Samplers
 Weighers, Measurers, and Checkers

Natural Resource Systems Pathway

Agronomists
 Fish Hatchery Managers
 Geologists

Plant Systems Pathway

Agrochemical Applicators
 Berry Farmers
 Biological Technicians
 Crop and Livestock Managers
 Extension Agents
 Foresters
 Forestry and Logging Supervisors
 Forestry Technicians
 Fruit Tree Farmers
 Horticultural Specialty Farmers
 Horticulturists
 Hydroponic Farmers
 Space Station Hydroponic Technicians
 Urban Foresters

Power, Structural & Technical Systems Pathway

Farm Equipment Technicians
 Water and Wastewater Treatment Plant Operators

ADDITIONAL COURSES FOR SPECIFIC CAREERS	WORK-BASED LEARNING	CO-CURRICULAR STUDENT ORGANIZATIONS & ACTIVITIES
Algebra 2 Blue Print Reading & Construction Est. Employability Skills Engineering Materials Environmental Science Information Processing Light Construction Methods Personal Money Management Power Mechanics 2 Statistics 21st Century Research & Tech. Writing	Senior Work Internships	FCCLA FBLA



Careers in architecture and construction encompass designing, planning, managing, building and maintaining the built environment.



INTERESTS & ABILITIES

Activities that describe what I like to do:

- Read and follow blueprints and/or instructions
- Picture in my mind what a finished product looks like
- Work with my hands
- Perform work that requires precise results
- Solve technical problems
- Visit and learn from beautiful, historic, or interesting buildings

Personal qualities that describe me:

- Curious
- Good at following directions
- Pay attention to detail
- Good at visualizing possibilities
- Patient and persistent

School subjects that I like:

- Math
- Computer Design
- Physical Science
- Construction Trades
- Electrical Trades/Heat, Air Conditioning and Refrigeration/
- Technology Education

PATHWAYS IN THIS CLUSTER

- Construction
- Design/Pre-Construction
- Maintenance/Operations

SUGGESTED COURSES FOR THIS CLUSTER	ADDITIONAL COURSES FOR SPECIFIC PATHWAYS	
<p style="text-align: center;"> Algebra 2 Arch CAD Blue Print Reading & Construction Estimating Design Drawing Engineering Materials Intermediate Writing Light Construction Methods Physics Residential Construction 3-D Art Woods Technology </p>	<p style="text-align: center;"><u>Construction Pathway:</u></p> <p style="text-align: center;"> Algebra 2 Arch CAD 1, 2, 3 Blue Print Reading & Const. Est. Engineering Materials Light Construction Methods Physics Residential Construction </p> <p style="text-align: center;"><u>Design/Pre-Construction Pathway:</u></p> <p style="text-align: center;"> Algebra 2 Arch CAD Blue Print Reading & Const. Est. Design Physics Residential Construction Engineering Materials </p>	<p style="text-align: center;"><u>Maintenance/Operations Pathway:</u></p> <p style="text-align: center;"> Algebra 2 Arch CAD Automotive Systems Blue Print Reading & Const. Est. Engineering Materials Light Construction Methods Physics </p>

Courses listed within this plan are only suggested coursework and should be individualized to meet each learner's educational and career goals

CAREER OPTIONS IN ARCHITECTURE & CONSTRUCTION

* =Entry Level
 ** =Certificate, Technical or Associate Degree or Apprenticeship
 *** =Bachelor or Advanced Degree
 HOT*** =An occupation that is expected to grow over the next 10 years.

Construction Pathway

Bricklayers**
 Building Contractors ***
 Cabinetmakers**
 Cement Masons*
 Construction Laborers**
 Construction Painters*
 Construction Supervisors**
 Construction Worker Helpers*
 Construction Workers HOT*
 Drywall Installers*
 Earth Drillers*
 Electricians**
 Elevator Mechanics**
 Excavating and Loading Machine Operators *
 Explosives Workers*
 Extractive Worker Helpers*
 Fence Builders*
 Floor Covering Installers*
 Furnace Installers HOT**
 Glaziers*
 Grading/Leveling Machine Operators*
 Groundskeepers and Gardeners*
 Insulation Workers**
 Ornamental Iron Workers **
 Plumbers**
 Roofers**
 Sheet Metal Duct Installers**
 Sheet Metal Workers**
 Shipfitters**
 Structural Metal Fitters**

Stonemasons**
 Structural Steel Workers**
 Tile Setter HOT*

Design and PreConstruction Pathway

Architects***
 Architectural Drafters**
 Civil Drafters*
 Civil Engineering Technicians**
 Civil Engineers***
 Cost Estimators***
 Electrical Engineering Technicians**
 Electrical Engineers***
 Interior Designers**
 Land Surveyors**
 Landscape Architects***
 Right-of-Way Managers***

Maintenance and Operation Pathway

Air Conditioning Technicians HOT**
 Air Hammer Operators*
 Asphalt Paving Machine Operator*
 Civil Drafters**
 Construction Workers HOT*
 Cost Estimators***
 Drywall Installers*
 Earth Drillers*
 Electricians**
 Elevator Mechanics**
 Extractive Worker Helpers*
 Fence Builders*
 Floor Covering Installers*
 Furnace Installers HOT**
 Gas Appliance Servicers**
 Glaziers*
 Groundskeepers and Gardeners*
 Insulation Workers**
 Operating Engineers*
 Paperhangers**
 Pile Driving Machine Operators**
 Plasterers*
 Sewer Pipe Cleaners*
 Surveying Technicians**

ADDITIONAL COURSES FOR SPECIFIC CAREERS	WORK-BASED LEARNING	CO-CURRICULAR STUDENT ORGANIZATIONS & ACTIVITIES
Algebra 2 Computer Applications Design, Drawing Digital Electronics Earth Science Employability Skills Environmental Science Graphic Arts Information Processing Marketing Personal Money Management Precalculus Sculpture 21st Century Research & Tech. Writing Woods Technology (Advanced)	Senior Work Internships	



INTERESTS & ABILITIES

Careers in arts, A/V technology, and communications encompass designing, producing, exhibiting, performing, writing, and publishing multimedia content. This can include visual and performing arts, design, journalism and entertainment services.



Activities that describe what I like to do:

- Use my imagination to communicate new information to others
- Perform in front of others
- Read and write
- Play a musical instrument
- Perform creative, artistic activities
- Use video and recording technology
- Design Brochures and posters

Personal qualities that describe me:

- Creative and imaginative
- Great communicator/vocabulary
- Curious about new technology
- Relate well to feelings and thoughts of others
- Determined/Tenacious

School subjects that I like:

- Art/Graphic design
- Audiovisual Technologies
- Journalism/Literature
- Music
- Speech and Drama

PATHWAYS IN THIS CLUSTER

- Audio and Video Technology and Film
- Journalism and Broadcasting
- Performing Arts
- Printing Technology
- Telecommunications
- Visual Arts

SUGGESTED COURSES FOR THIS CLUSTER

Ceramics
 Concert Band
 Concert Chorus
 Contemporary Global Issues
 Creative Writing
 Debate
 Design
 Digital Graphic Arts
 Digital Photography
 Drawing 1
 English in the Digital Age
 Foreign Language
 Information Processing
 Integrated Math 1, 2, 3
 Interpersonal Communications
 Painting
 Psychology
 Sociology

ADDITIONAL COURSES FOR SPECIFIC PATHWAYS

Audio and Video Technology and Film:
 Digital Photography
 English in the Digital Age

Journalism and Broadcasting:
 English in the Digital Age
 Journalistic Writing
 Applied Yearbook

Performing Arts:
 Concert Band
 Concert Chorus

Printing Technology:
 Digital Photography
 Digital Graphic Arts
 Yearbook

Telecommunications:
 Creative Writing
 Information Processing

Visual Arts:
 Design
 Digital Photography
 Digital Graphic Arts

CAREER OPTIONS IN ARTS, A/V TECHNOLOGY, & COMMUNICATIONS

* =Entry Level
 ** =Certificate, Technical or Associate Degree or Apprenticeship
 *** =Bachelor or Advanced Degree
 HOT*** =An occupation that is expected to grow over the next 10 years.

Audio and Video Technology Pathway

Animators**
 Art Directors***
 Cinematographers***
 Medical and Scientific Illustrators***
 Recording Technicians**
 Television Camera Operators**

Dance Teachers***
 Dance Therapists***
 Dancers***
 Film Editors***
 Grips*
 Music Teachers***
 Music Therapists***
 Musicians***
 Set Designers***

Pre-Press Technicians**
 Printing Machine Oper. & Tenders**
 Printing Press Operators**
 Printing Specialists**
 Sign Designers*

Journalism & Broadcasting Pathway

Announcers***
 Caption**
 Copy Editors***
 Disc Jockeys**
 Journalists***
 Literary Writers***
 Proofreaders**
 Reporters***
 Sign Language Interpreters**
 Technical Writers***

Telecommunication Pathway

Broadcast Technicians**
 Central Office Technicians**
 Communications Line Maintainers**
 Electrical Line Maintainers**
 Telephone Installation Technicians**

Visual Arts Pathway

Advertising Layout Designers**
 Art Teachers***
 Art Therapists***
 Artists***
 Commercial Artists**
 Craft Artists**
 Display Persons**
 Fashion Designers***
 Floral Designers*
 Food Stylists*
 Industrial Stylists***
 Jewelers**
 Photographers**
 Potters***
 Sketch Artists**
 Tattoo Artists**
 Video Game Designers**

Performing Arts Pathway

Actors and Actresses***
 Choreographers***
 Composers***

Printing Technology Pathway

Bookbinder**
 Desktop Publishers**
 Lithographic Photographers**
 Lithographic Strippers**
 Photoengravers**
 Photo Finishers**
 Photographic Technicians**
 Precision Typesetters

ADDITIONAL COURSES FOR SPECIFIC CAREERS	WORK-BASED LEARNING	CO-CURRICULAR STUDENT ORGANIZATIONS & ACTIVITIES
Computer Applications Computer Programming Creative Writing Design, Drawing Digital Electronics English in the Digital Age Employability Skills Information Processing Integrated Math 1, 2, 3 Intermediate Writing, Interpersonal Communications, Journalistic Writing Painting Prostart Sculpture 21st Century Research & Tech. Writing Three Dimensional Art Web Page Development	Senior Work Internships	Debate FBLA Mock Trial



Business Management & Administration

Careers in business, management and administration encompass planning, organizing, directing and evaluating business functions that are essential to efficient and productive business operations.



INTERESTS & ABILITIES

Activities that describe what I like to do:

- Work with numbers and detailed information
- Be the leader in a group
- Make business contact with people
- Work with computer programs
- Create reports and communicate ideas
- Perform routine, organized activities but can be flexible
- Plan my work and follow instruction without close supervision

Personal qualities that describe me:

- Organized
- Practical and logical
- Patient
- Tactful
- Responsible

School subjects that I like:

- Computer Application/Business and Information Technology
- Accounting
- Math
- English
- Economics

PATHWAYS IN THIS CLUSTER

- Administrative Support
- Business Information Management
- General Management
- Human Resources Management
- Operations Management

SUGGESTED COURSES FOR THIS CLUSTER

Applied Yearbook
 Accounting
 Algebra 2 or Precalculus
 Computer Applications
 Debate
 Democracy
 Economics
 Employability Skills
 Foreign Language
 Info Processing
 Intermediate Writing
 Interpersonal Communication
 Marketing
 Personal Money Management
 Psychology
 Sociology

ADDITIONAL COURSES FOR SPECIFIC PATHWAYS

Administrative Support Pathway:

Accounting
 Information Processing

Business Information Management

Accounting
 Computer Applications
 Marketing

General Management Pathway:

Accounting
 Economics
 Information Processing

Human Resource Management:

Accounting
 Comparative Religions
 Interpersonal Communications
 Psychology

Operations Management:

Accounting
 Applied Yearbook
 Computer Applications

CAREER OPTIONS IN BUSINESS MANAGEMENT & ADMINISTRATION

* =Entry Level
 ** =Certificate, Technical or Associate Degree or Apprenticeship
 *** =Bachelor or Advanced Degree
 HOT*** =An occupation that is expected to grow over the next 10 years.

Administrative Support Pathway

Administrative Assistants**
 Administrative Services Managers***
 Administrative Support Supervisors***
 City Planning Aides***
 Computer Operators**
 Computer Peripheral Equipment Operators**
 Correspondence Clerks*
 Court Reporters**
 Data Entry Keyers*
 Duplicating Machine Operators*
 File Clerks*
 General Office Clerks*
 Hospital Admitting Clerks HOT*
 Hotel Clerks*
 Industrial Clerks*
 Mail Clerks*
 Messengers*
 Meter Readers*
 Payroll and Timekeeping Clerks*
 Receptionists*
 Social Welfare Clerks***
 Statement Clerks*
 Stenographers**
 Telephone Operators*
 Tellers*
 Word Processor Operators**
 Word Processors and Typists**

Business Information Management Pathway

Accountants**
 Billing, Cost, and Rate Clerks*
 Bookkeeping Clerks*
 Budget Analysts***
 Business Industry Consultants***
 Controllers***
 Financial Analysts***
 Management Consultants***
 Research Analysts***
 Tax Preparers**

General Management Pathway

Advertising Account Executives***
 Advertising Managers***
 Art Directors***
 Association Executives***
 Brew Masters***
 Business and Industry Managers***
 Casino Managers**
 Caterers**
 Club Managers**
 Communications & Operations Managers***
 Compensation & Benefits Managers***
 Credit Card Operations Managers***
 Crop and Livestock Managers***
 Department Store Managers***
 Development Directors***
 Educational Administrators***
 Crop and Livestock Managers***
 Department Store Managers***
 Development Directors***
 Educational Administrators***
 Employee Welfare Managers***

Energy Managers***
 Financial Institution Managers***
 Funeral Directors**
 Health Care Administrators***
 Health Service Coordinators***
 Household Managers*
 Industrial Production Managers***
 Kennel Owners*
 Management Trainees**
 Nursing Administrators***
 Small Business Owners*
 Theater Managers***
 Travel Agency Managers***

Human Resources Management Pathway

Arbitrators***
 Compensation and Benefits Managers***
 Employee Welfare Managers***
 Employment Interviewers HOT***
 Human Resources Clerks*
 Human Resources Managers**

Operations Management Pathway

Budget Analysts***
 General Operations Manager***
 Management Analysts***
 Operations Researcher/Analysts***

ADDITIONAL COURSES FOR SPECIFIC CAREERS	WORK-BASED LEARNING	CO-CURRICULAR STUDENT ORGANIZATIONS & ACTIVITIES
Business Concepts Business Law Interpersonal Communications Journalistic Writing Language and Composition AP Research Process Statistics 21st Century Research & Tech. Writing Web Page Development	Senior Work Internships	Debate FBLA FCCLA



INTERESTS & ABILITIES

Careers in education and training encompass the planning, managing, and providing of education and training services. These also include related learning support services.



Activities that describe what I like to do:

- Communicate with different people
- Help others with their homework or learn new things
- Go to school
- Direct and plan activities for others
- Handle several responsibilities at once
- Acquire new information
- Help people overcome their challenges

Personal qualities that describe me:

- Friendly
- Decision Maker
- Helpful
- Innovative/Inquisitive
- Good listener

School subjects that I like:

- Math
- Language Arts
- Social Studies
- Science
- Psychology

PATHWAYS IN THIS CLUSTER

- Administration & Administrative Support
- Professional Support Services
- Teaching/Training

SUGGESTED COURSES FOR THIS CLUSTER	ADDITIONAL COURSES FOR SPECIFIC PATHWAYS	
<p style="text-align: center;">Algebra 2</p> <p style="text-align: center;">Language and Compositions AP</p> <p style="text-align: center;">AP US History</p> <p style="text-align: center;">Child Development</p> <p style="text-align: center;">Comparative Religion</p> <p style="text-align: center;">Computer Applications</p> <p style="text-align: center;">Design</p> <p style="text-align: center;">Employability Skills</p> <p style="text-align: center;">Foreign Language</p> <p style="text-align: center;">Foundations of Early Childhood Education</p> <p style="text-align: center;">Information Processing</p> <p style="text-align: center;">Intermediate Writing</p> <p style="text-align: center;">Interpersonal Communication</p> <p style="text-align: center;">Personal Money Management</p> <p style="text-align: center;">Psychology</p> <p style="text-align: center;">Service Learning</p> <p style="text-align: center;">Sociology</p> <p style="text-align: center;">21st Century Research & Technical Writing</p>	<p><u>Administration & Admin. Support:</u></p> <p style="text-align: center;">Employability Skills</p> <p style="text-align: center;">Information Processing</p> <p style="text-align: center;">21st Century Research & Tech. Writing</p> <p><u>Professional Support Services:</u></p> <p style="text-align: center;">Employability Skills</p> <p style="text-align: center;">Information Processing</p> <p style="text-align: center;">Interpersonal Communication</p>	<p><u>Teaching/Training:</u></p> <p style="text-align: center;">Child Development</p> <p style="text-align: center;">Education</p> <p style="text-align: center;">Foundations of Early Childhood</p> <p style="text-align: center;">Psychology</p>

CAREER OPTIONS IN EDUCATION & TRAINING

* =Entry Level
 ** =Certificate, Technical or Associate Degree or Apprenticeship
 *** =Bachelor or Advanced Degree
 HOT*** =An occupation that is expected to grow over the next 10 years.

Administration and Administrative Support Pathway

Apprenticeship Consultants
 Educational Administrators***
 Instructional Coordinators HOT***
 Librarians***
 Library Technicians**

Professional Support Services Pathway

Psychiatrists***
 Psychologists***
 School Counselors***
 Speech-Language Pathologists***

Teaching and Training Pathway

Sign Language Interpreters**
 Special Education Teachers***
 Teacher Assistants**
 Teachers of the Blind & Visually Impaired***
 Training Program Managers***
 University Professors HOT***
 Vocational Education teachers***
 Adult Literacy Teachers***
 Aerobic Instructors HOT**
 Art Teachers***
 Child Care Assistants**
 Child Life Therapists***
 Dance Teachers***
 Elementary School Teachers***
 Extension Agents***
 Kindergarten Teachers***
 Music Teachers***
 Physical Education Teachers***
 Music Teachers***
 Physical Education Teachers***
 Post-Secondary Teachers HOT***
 Secondary School Teachers***
 Self-Enrichment Teachers*

ADDITIONAL COURSES FOR SPECIFIC CAREERS	WORK-BASED LEARNING	CO-CURRICULAR STUDENT ORGANIZATIONS & ACTIVITIES
Biology Chemistry Concert Band Concert Chorus Earth Science English Literature & Compositions (AP) Environmental Science Literature for Life Statistics Vocal Music	Senior Work Internships	NHS FCCLA Key Club Student Council



INTERESTS & ABILITIES

Careers in financial and investment planning, banking, insurance, and business financial management.



Activities that describe what I like to do:

- Work with numbers
- Work to meet a deadline
- Make predictions based on existing facts
- Have a framework of rules by which to operate within
- Analyze financial information and interpret to others
- Handle money with accuracy and reliability
- Take pride in the way I dress and look

Personal qualities that describe me:

- Trustworthy
- Orderly
- Self-Confident
- Logical
- Methodical or efficient

School subjects that I like:

- Accounting
- Math
- Economics
- Banking/Financial Services
- Insurance Services

PATHWAYS IN THIS CLUSTER

- Accounting
- Banking Services
- Business Finance
- Insurance
- Securities and Investments

SUGGESTED COURSES FOR THIS CLUSTER

Accounting
Algebra 2
Economics
Employability Skills
Information Processing
Intermediate Writing
Personal Money Management

ADDITIONAL COURSES FOR SPECIFIC PATHWAYS

Accounting:
Accounting
Personal Money Management

Banking Services:
Accounting
Personal Money Management

Business Finance:
Accounting
Economics

Insurance:
Accounting 1, 2
Economics
Personal Money Management

Securities and Investments:
Accounting 1, 2
Economics
Personal Money Management

CAREER OPTIONS IN FINANCE

* =Entry Level
 ** =Certificate, Technical or Associate Degree or Apprenticeship
 *** =Bachelor or Advanced Degree
 HOT*** =An occupation that is expected to grow over the next 10 years.

Accounting Pathway

Brokerage Clerks**
 Financial Analyst***
 Financial Examiner***
 Financial Manager***
 Financial Services Sales Agent***
 Personal Financial Advisor***
 Securities/Commodities Sales Agent**
 Tax Examiner/Revenue Agent***

Business Finance Pathway

Accountants**
 Auditors***
 Business and Industry Consultants***
 Controllers***
 Economists***
 Financial Analysts***

Banking Services Pathways

Brokerage Clerks*
 Cashiers*
 Credit Analysts***
 Credit Card Operations Managers***
 Financial Counselors***
 Financial Institution Managers***
 Loan Officers**
 Personal Property Appraisers**
 Real Estate Appraisers**

Insurance Pathway

Actuaries***
 Claim Adjusters***
 Insurance Agents***
 Insurance Underwriters***
 Investigators and Adjusters**

Security and Investments Pathway

Brokerage Clerks***
 Financial Counselors***
 Investment Advisors***
 Stockbrokers***

ADDITIONAL COURSES FOR SPECIFIC CAREERS	WORK-BASED LEARNING	CO-CURRICULAR STUDENT ORGANIZATIONS & ACTIVITIES
Applied Yearbook AP US Government and Politics AP US History Employability Skills Precalculus Psychology Sociology 21st Century Research & Tech. Writing	Senior Work Credit Union Internship	FBLA FCCLA Student Council



INTERESTS & ABILITIES

Careers in government and public administration encompass governmental governance, national security, foreign service, revenue and taxation regulation, and the management of programs and administration at the local, state and federal levels.



Activities that describe what I like to do:

- Be involved in politics
- Negotiate, defend, and debate ideas and topics
- Plan activities and work cooperatively with others
- Work with details
- Perform a variety of duties that may change often
- Analyze information and interpret it to others
- Travel and see things that are new to me

Personal qualities that describe me:

- Good communicator
- Competitive
- Service-minded
- Well-organized
- Problem-solver

School subjects that I like:

- Government
- Language Arts
- History
- Math
- Foreign Language

PATHWAYS IN THIS CLUSTER

- Foreign Service
- Governance
- National Security
- Planning
- Public Management and Administration
- Regulation
- Revenue and Taxation

SUGGESTED COURSES FOR THIS CLUSTER

Accounting
Algebra 2
AP European History
AP US History
AP US Government and Politics
Business Concepts
Business Law
Comparative Religions
Debate
Democracy
Economics
Foreign Language
Greek and Roman
Information Processing
Intermediate Writing
Interpersonal Communications

ADDITIONAL COURSES FOR SPECIFIC PATHWAYS

Foreign Service, National Security, Governance, Planning:

Accounting
AP US History
AP European History
Comparative Religions
Contemporary Global Issues
Democracy
Economics
Foreign Language
Sociology

Public Management and Administration:

Debate
Information Processing
Sociology

Regulation:

Accounting
Democracy
Economics

Revenue and Taxation:

Economics
Personal Money Management

CAREER OPTIONS IN GOVERNMENT & PUBLIC ADMINISTRATION

* =Entry Level
 ** =Certificate, Technical or Associate Degree or Apprenticeship
 *** =Bachelor or Advanced Degree
 HOT*** =An occupation that is expected to grow over the next 10 years.

Foreign Service Pathway

Peace Corps Volunteers***
 Translators and Interpreters**

Governance Pathway

Apprenticeship Consultants***
 Coroners***
 Emergency Management Specialists***
 Government Agency Administrations***
 Job Analysts***
 Legislators***
 Mail Carriers*
 Mail Handling Machine Operators*
 Postal Clerks*
 Postmasters*
 Social Services Administrators***

National Security Pathway

Armored Assault Vehicle Crew Members*
 Armored Assault Vehicle Officers***
 Artillery and Missile Crew Members*
 Artillery and Missile Officers***
 Infantry Forces*
 Infantry Officers***
 Special Forces*
 Special Operations Officers***

Planning Pathway

Urban Planners***

Public Management and Administration Pathway

Association Executives***
 City Managers***
 City Planning Aides***
 Political Scientists***
 Public Utilities Managers***

Regulation Pathway

Building Inspectors**
 Driver's License Examiners*
 Equal Opportunity Specialists***
 Industrial Waste Inspectors***
 License Clerks*
 Occupational Health and Safety Specialists***
 Occupational Health & Safety Technicians***
 Public Health Sanitarians***
 Space System Technicians**
 Transportation Inspectors**

Revenue and Taxation Pathway

Accountants***
 Auditors***
 Lawyers***
 Title Examiners**

ADDITIONAL COURSES FOR SPECIFIC CAREERS	WORK-BASED LEARNING	CO-CURRICULAR STUDENT ORGANIZATIONS & ACTIVITIES
Debate Employability Skills Environmental Science Interpersonal Communications Journalistic Writing Personal Money Management Service Learning Sociology Statistics 21st Century Research & Technical Writing	Senior Work Internships	Debate Mock Trial Student Council



INTERESTS & ABILITIES

Careers in health science encompass planning, managing, and providing health services. This includes therapeutic services, diagnostics, health informatics, support services, and biotechnology.

Activities that describe what I like to do:

- Work under pressure
- Help sick people
- Make decisions based on logic and information
- Respond quickly and calmly in emergencies
- Work as a member of a team
- Follow guidelines precisely and meet strict standards of accuracy

Personal qualities that describe me:

- Compassionate and caring
- Good at following directions
- Conscientious and careful
- Patient
- Good Listener

School subjects that I like:

- Biology
- Chemistry
- Math
- Occupational Health classes
- Language Arts

PATHWAYS IN THIS CLUSTER

- Biotechnology Research and Development
- Diagnostic Services
- Health Science
- Support Services
- Therapeutic Services



SUGGESTED COURSES FOR THIS CLUSTER	ADDITIONAL COURSES FOR SPECIFIC PATHWAYS	
Algebra 2 AP Biology Chemistry AP Chemistry Child Development Comparative Religions Design Drawing Health Information Processing Intermediate Writing Interpersonal Communication Intro to Medical Occupations Medical Terminology Physics Psychology Sociology 21st Century Research & Technical Writing Vertebrate Biology	<u>Biotechnology Research and Development:</u> AP Biology Chemistry Medical Terminology 21st Century Research & Technical Writing <u>Diagnostic Services:</u> Medical Terminology Psychology 21st Century Research & Technical Writing <u>Health Services:</u> Intro to Medical Occupations Medical Terminology Psychology	<u>Support Services:</u> Medical Terminology Sociology Psychology <u>Therapeutic Services:</u> 3-D Art Design Drawing Medical Terminology Painting Psychology Sociology
28 <i>Courses listed within this plan are only suggested coursework and should be individualized to meet each learner's educational and career goals</i>		

CAREER OPTIONS IN HEALTH SCIENCE

* =Entry Level
 ** =Certificate, Technical or Associate Degree or Apprenticeship
 *** =Bachelor or Advanced Degree
 HOT*** =An occupation that is expected to grow over the next 10 years.

Biotechnology Research and Development Pathway

Geneticists ***
 Gerontologists ***
 Mathematical Technicians **
 Mathematicians ***
 Medical Researchers ***
 Pathologists ***
 Sociologists ***
 Statisticians ***

Diagnostic Services Pathway

Audiologists ***
 Cardiopulmonary Technologists **
 Cardiovascular Technicians **
 Cyrotechnologists ***
 Electrocardiograph Technicians **
 Electroencephalograph Technicians **
 Geneticists ***
 Histotechnologists **
 Medical Laboratory Technicians **
 Medical Technologists ***
 Nuclear Medicine Technologists **
 Phlebotomy Technicians **
 Radiologic Technologists **
 Ultrasound Technicians **

Health Informatics Pathway

Cyberlibrarians ***
 Health Care Administrators ***
 Health Unit Clerks **
 Hospital Admitting Clerks *
 Medical Records Administrators ***

Medical Secretaries **
 Medical Records Technicians **
 Medical Transcriptionists **

Support Services Pathway

Biomedical Engineers ***
 Central Supply Technicians *
 Food Service Supervisors **
 Food Service Workers *
 Health Services Coordinators ***
 Laboratory Equipment Perparers *
 Nuclear Technicians **

Therapeutic Services Pathway

Anesthesiologists ***
 Animal Chiropractors ***
 Art Therapists ***
 Athletic Trainers ***
 Bionic Surgeons ***
 Certified Nursing Aids/Assistants **
 Chiropractors ***
 Dance Therapists ***
 Dental Assistants **
 Dental Hygienists **
 Dental Specialists ***
 Dentists ***
 Dialysis Technician **
 Dietetic Technicians**
 Dietitians ***
 Emergency Medical Technicians **
 Heotherapists **
 Home Health Aids **
 Licensed Practical Nurses **

Massage Therapists **
 Medical Assistants **
 Medical Diagnostic ***
 Music Therapists ***
 Nurse Practitioners ***
 Nursing Administrators ***
 Occupational Therapists ***
 Occupational Therapy Aids **
 Occupational Therapy Assistants **
 Opticians ***
 Optometric Assistants **
 Optometrists ***
 Oral Surgeons ***
 Orthopedic Technicians **
 Osteopathic Physicians ***
 Perfusionists ***
 Pharmacists ***
 Pharmacy Technicians **
 Physical Therapist Assistants **
 Physical Therapists ***
 Physical Therapy Aides *
 Physician Assistants ***
 Podiatric Assistants **
 Podiatrists ***
 Primary Care Physicians ***
 Prosthetists and Orthotists ***
 Phychiatric Aides **
 Psychiatrists ***
 Radiation Therapists **
 Registered Nurses **
 Respiratory Therapists **
 Speech-Lanuguage Pathologists ***
 Surgeons ***
 Surgical Technicians **
 Translators and Interpreters **
 Vocational Rehabilitation Counselors ***

ADDITIONAL COURSES FOR SPECIFIC CAREERS	WORK-BASED LEARNING	CO-CURRICULAR STUDENT ORGANIZATIONS & ACTIVITIES
Biology Chemistry Employability Skills English in the Digital Age Foreign Language Personal Money Management Precalculus Research Process Statistics 21st Century Research & Technical Writing	Medical Services Academy Senior Work Internships	FCCLA



INTERESTS & ABILITIES

Careers in hospitality and tourism encompass the management, marketing and operations of restaurants and other food service, lodging, attractions, and recreational events. It also includes travel-related services.



Activities that describe what I like to do:

- Investigate new places and activities
- Work with all ages and types of people
- Organize activities in which other people enjoy themselves
- Have a flexible schedule
- Help people make up their minds
- Communicate easily, tactfully and courteously
- Learn about other cultures

Personal qualities that describe me:

- Tactful
- Self-motivated
- Work well with others
- Outgoing
- Slow to anger

School Subjects that I like:

- Language Arts/Speech
- Foreign Language
- Social Sciences
- Marketing
- Food Services

PATHWAYS IN THIS CLUSTER

- Lodging
- Recreation, Amusements & Attractions
- Restaurant and Food/Beverage Services
- Travel & Tourism

SUGGESTED COURSES FOR THIS CLUSTER

Accounting
 Business Concepts
 Comparative Religions
 Culinary Basics
 Design
 Drawing
 Economics
 Employability Skills
 Integrated Math 1, 2, 3
 Intermediate Writing
 Interpersonal Communication
 Marketing
 Outdoor Activities
 Prostart
 21st Century Research and Technical Writing
 Sociology
 Total Fitness Training
 Wisconsin Studies

ADDITIONAL COURSES FOR SPECIFIC PATHWAYS

Lodging:
 Accounting
 Culinary Basics
 Marketing

Recreation, Amusements & Attractions:
 Creative Writing
 Marketing
 21st Century Research & Tech. Writing

Restaurant and Food/Beverage Services:
 Culinary Basics
 Marketing
 Prostart

Travel & Tourism:
 Culinary Basics
 Marketing
 21st Century Research & Tech. Writing

CAREER OPTIONS IN HOSPITALITY AND TOURISM

* =Entry Level
 ** =Certificate, Technical or Associate Degree or Apprenticeship
 *** =Bachelor or Advanced Degree
 HOT*** =An occupation that is expected to grow over the next 10 years.

Lodging Pathway

Baggage Porters and Bellhops*
 Cleaning and Building Services Supervisors*
 Concierges*
 Day Workers*
 Hotel and Motel Cleaners*
 Hotel Clerks*
 Household Managers*
 Janitors*
 Launderers and Ironers*
 Motel and Hotel Managers**

Recreation, Amusements and Attractions Pathway

Animal Trainers**
 Archivists***
 Casino Managers**
 Club Managers**
 Coaches***
 Conservation Technicians***
 Curators***
 Furniture Refinishers*
 Gambling Dealers HOT*
 Gaming Change Persons & Booth Cashiers*
 Gaming Surveillance Officers*
 Guides
 Historians***
 Janitors*
 Park Rangers***
 Professional Athletes*
 Recreational Directors**
 Recreational Activity Leaders*
 Recreational Facility Attendants*
 Slot Machine Attendants
 Taxidermists*
 Theater Managers***
 Umpires*
 Ushers*
 Wardrobe and Dressing Room Attendants*
 Zookeepers***

Restaurants and Food/Beverage Services Pathway

Baking Technologists**
 Bartenders*
 Brew Masters***
 Cake Decorators*
 Caters**
 Food Attendants*
 Food Service Supervisors**
 Food Service Workers*
 Restaurant Cooks and Chefs*
 Restaurant Hosts and Hostesses*
 Restaurant Managers*
 Short Order cooks*
 Waiter and Waitress Assistants HOT
 Waiters and Waitresses*

ADDITIONAL COURSES FOR SPECIFIC CAREERS	WORK-BASED LEARNING	CO-CURRICULAR STUDENT ORGANIZATIONS & ACTIVITIES
Applied Yearbook Design Digital Photography Engineering Materials Environmental Science Foreign Language Journalistic Writing Web Page Development	Senior Work Internships	FBLA FCCLA



INTERESTS & ABILITIES

Activities that describe what I like to do:

- Care about people, their needs, and their problems.
- Participate in community services and/or volunteering
- Listen to other people's viewpoints
- Help people to be their best
- Work with people from preschool age to old age
- Think of new ways to do things
- Make friends with different kinds of people

Personal qualities that describe me:

- Good communicator/ listener
- Caring
- Non-materialistic
- Uses intuition and logic
- Non-judgmental

School subjects that I like:

- Language Arts
- Psychology/Sociology
- Family and Consumer Sciences
- Finance
- Foreign Language

PATHWAYS IN THIS CLUSTER

- Consumer Services
- Counseling & Mental Health Services
- Early Childhood Development & Services
- Family & Community Services
- Personal Care Services



SUGGESTED COURSES FOR THIS CLUSTER

Child Development
 Information Processing
 Intro to Medical Occupations
 Medical Terminology
 Personal Money Management
 Psychology
 Relationships
 21st Century Research & Technical Writing
 Sociology

ADDITIONAL COURSES FOR SPECIFIC PATHWAYS

Consumer Services:

Marketing
 Relationships
 Sociology

Counseling & Mental Health Services:

Psychology
 Relationships
 Sociology

Early Childhood Development & Services:

Child Development
 Foundations of Early Childhood Ed.
 Development

Family & Community Services:

Relationships
 Psychology
 Service Learning

Personal Care Services:

Health
 Relationships
 Sociology

CAREER OPTIONS IN HUMAN SERVICES

* =Entry Level
 ** =Certificate, Technical or Associate Degree or Apprenticeship
 *** =Bachelor or Advanced Degree
 HOT*** =An occupation that is expected to grow over the next 10 years.

Consumer Services Pathway

Customer Services Representatives*
 Financial Counselor HOT***
 Investment Advisors HOT**

Counseling and Mental Health Services Pathway

Alcohol/Drug Abuse Counselors HOT***
 Career Counselor ***
 Gerontologists HOT***
 Personal Counselors***
 Placement Counselors***
 Psychiatrists***
 Psychologists***
 School Counselors***
 Sociologists***
 Vocational Rehabilitation Counselors***

Early Childhood Development and Services Pathway

Child Care Assistants**
 Nannies*
 Preschool Teacher HOT**

Family and Community Services Pathway

Clergies***
 Community Organization Workers**
 Crossing Guards*
 Dietitians***
 Gerontologists HOT***
 Home Support Workers HOT*
 Household Cleaners*
 Household Cooks*
 Institutional Cooks*
 Religious Workers***
 Social Workers***

Personal Care Services Pathway

Aerobic Instructors HOT**
 Barbers**
 Cosmetologists**
 Custom Sewers*
 Embalmers**
 Funeral Directors**
 Nail technicians**
 Personal Services Supervisors**
 Shoe Repairers**
 Skin Care Specialists**
 Tattoo Artists**

ADDITIONAL COURSES FOR SPECIFIC CAREERS	WORK-BASED LEARNING	CO-CURRICULAR STUDENT ORGANIZATIONS & ACTIVITIES
Design Drawing Employability Skills Foreign Language Interpersonal Communications Journalistic Writing Personal Money Management Vertebrate Biology	Internships Senior Work	FBLA FCCLA



INTERESTS & ABILITIES

Careers in information technology encompass the designing, developing and supporting of the technological hardware, software, multimedia and integration systems.



Activities that describe what I like to do:

- Work with computers
- Reason clearly and logically to solve complex problems
- Use Machines, techniques, and processes
- Read technical materials and diagrams to solve technical problems
- Adapt to change
- Play video games and figure out how they work
- Concentrate for long periods without being distracted

Personal qualities that describe me:

- Logical/analytical thinker
- See details in the big picture
- Persistent
- Good concentration skills
- Precise and accurate

School subjects that I like:

- Math
- Science
- Computer Technology/Applications
- Communications
- Graphic Design

PATHWAYS IN THIS CLUSTER

- Information Support & Services
- Network Systems
- Programming and Software Development
- Web and Digital Communications

SUGGESTED COURSES FOR THIS CLUSTER	ADDITIONAL COURSES FOR SPECIFIC PATHWAYS	
<p>Algebra 2 Applied Yearbook Computer Applications Digital Electronics Digital Graphic Arts Information Processing Intermediate Writing Intro to Digital Media Intro to Electronics Intro to Computer Programming Marketing Web Page Development</p>	<p><u>Information Support & Services:</u> Computer Applications Information Processing Relationships</p> <p><u>Network Systems:</u> <u>Relationship</u> Intro to Computer Programming Intro to Digital Media Web Page Development</p>	<p><u>Programming and Software Development:</u> Intro to Computer Programming Intro to Digital Media Relationship</p> <p><u>Web and Digital Communications:</u> Digital Photography Journalistic Writing Web Page Development Yearbook</p>

CAREER OPTIONS IN INFORMATION TECHNOLOGY

* =Entry Level
 ** =Certificate, Technical or Associate Degree or Apprenticeship
 *** =Bachelor or Advanced Degree
 HOT*** =An occupation that is expected to grow over the next 10 years.

Information Support and Services Pathway

Computer Engineers***
 Computer Security Specialists HOT**
 Computer Support Specialists**
 Database Administrators HOT**
 Information Scientists***

Network Systems Pathway

Computer Network Coordinators HOT***
 Computer Security Specialists HOT**
 Computer Systems Analysts HOT***
 Data Communications Analysts HOT***
 Information Scientists***

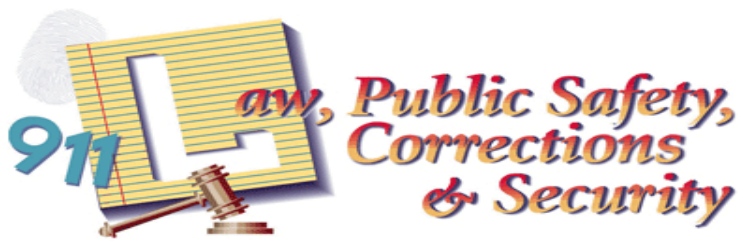
Programming and Software Development Pathway

Computer Programmers***
 Computer Systems Analysts HOT ***
 Scientific and Engineering Programmers***
 Software Engineers HOT ***
 Tool Programmers**
 Video Game Designers**

Web and Digital Communications Pathway

Animators**
 Computer Programmers***
 Medical and Scientific Illustrators***
 Web Masters***

ADDITIONAL COURSES FOR SPECIFIC CAREERS	WORK-BASED LEARNING	CO-CURRICULAR STUDENT ORGANIZATIONS & ACTIVITIES
Digital Electronics Employability Skills Foreign Language Journalistic Writing Personal Money Management Precalculus Statistics 21st Century Research & Technical Writing	Internships Senior Work	FBLA



Careers in law, public safety corrections and security encompass the planning, managing, and providing of protective services, legal services, homeland security and public safety.



INTERESTS & ABILITIES

Activities that describe what I like to do:

- Work under pressure or in the face of danger
- Make decisions based on my own observations
- Interact with other people
- Be in positions of authority
- Respect rules and regulations
- Debate and win arguments
- Observe and analyze peoples behavior

Personal qualities that describe me:

- Adventurous
- Dependable
- Community-minded
- Decisive
- Optimistic

School subjects that I like:

- Language Arts
- Psychology/Sociology
- Government/History
- Law Enforcement
- First Aid/First Responder

PATHWAYS IN THIS CLUSTER

- Correction Services
- Emergency & Fire Management Services
- Law Enforcement Services
- Legal Services
- Security & Protective Services

SUGGESTED COURSES FOR THIS CLUSTER	ADDITIONAL COURSES FOR SPECIFIC PATHWAYS	
<p>AP European History AP US Government and Politics AP US History Business Law Child Development Comparative Religions Debate Democracy Information Processing Intermediate Writing Psychology Relationships Sociology 21st Century Research and Technical Writing Total Fitness Training</p>	<p><u>Correction Services:</u> Child Development Psychology Relationships</p> <p><u>Emergency & Fire Management Services:</u> Total Fitness Training Sociology Consumer Autos</p> <p><u>Law Enforcement Services:</u> Information Processing Psychology Sociology Weight Training</p>	<p><u>Legal Services:</u> Information Processing Business Law Debate</p> <p><u>Security & Protective Services:</u> Total Fitness Training Weight Training Child Development Psychology</p>
<p>36 <i>Courses listed within this plan are only suggested coursework and should be individualized to meet each learner's educational and career goals</i></p>		

CAREER OPTIONS IN LAW, PUBLIC SAFETY, CORRECTIONS, & SECURITY

* =Entry Level
 ** =Certificate, Technical or Associate Degree or Apprenticeship
 *** =Bachelor or Advanced Degree
 HOT*** =An occupation that is expected to grow over the next 10 years.

Correction Services Pathway

Correctional Officer Supervisors***
 Correctional Officers**
 Probations and Parole Officers**

Security and Protective Services Pathway

Crossing Guards*
 Gaming Surveillance Officers*
 Private Detectives***
 Security Guards*

Legal Services Pathway

Adjudicators***
 Arbitrator***
 Court Reporters**
 Judges***
 Judicial Law Clerks***
 Lawyers***
 Legal Secretaries**
 Paralegal Assistants HOT**

Law Enforcement Services Pathway

Bailiffs**
 Conservations Wardens**
 Dispatchers*
 FBI Agents***
 Fingerprint Examiners**
 Forensic Science Technicians HOT***
 Law Enforcement Supervisors**
 Park Rangers***
 Parking Enforcement Officers*
 Police Canine Trainers**
 Police Officers**
 Sketch Artists**
 State patrol Officers**

Emergency and Fire Management Services Pathway

Dispatchers*
 Emergency Management Specialists***
 Emergency Medical Technicians HOT***
 Fire Inspectors**
 Fire Fighter Supervisors**
 Fire Fighters**

ADDITIONAL COURSES FOR SPECIFIC CAREERS	WORK-BASED LEARNING	CO-CURRICULAR STUDENT ORGANIZATIONS & ACTIVITIES
AP US History AP US Government & Politics Advanced Debate Algebra 2 Chemistry Foreign Language Journalistic Writing Physics	Senior Work Internships	Debate Mock Trial



INTERESTS & ABILITIES

Careers in manufacturing encompass planning, managing, and processing materials into intermediate or final products. It also includes Professional and technical support such as production planning, control maintenance and manufacturing/process engineering.



Activities that describe what I like to do

- Work with my hands and learn that way
- Put things together
- Do routine, organized and accurate work
- Perform activities that produce tangible results
- Apply math to work out solutions
- Use hand and power tools and operate equipment/ machinery
- Visualize objects in three dimensions from flat drawings

Personal qualities that describe me:

- Observant
- Physically active
- Step-by-step thinker
- Coordinated
- Practical
- Detailed Oriented

School subjects that I like:

- Math-Geometry
- Chemistry
- Trade and Industry courses
- Physics
- Language Arts
- Computer Design

PATHWAYS IN THIS CLUSTER

- Health, Safety & Environmental Assurance
- Logistics & Inventory Control
- Maintenance, Installation & Repair
- Manufacturing Production Process Development
- Production
- Quality Assurance

SUGGESTED COURSES FOR THIS CLUSTER

Algebra 2
 Chemistry
 Design
 Drawing
 Engineering Materials
 Integrated Math 1, 2, 3
 Intermediate Writing
 Machine Tool Technology
 Mechanical CAD Design
 Metal Processes
 Practical English
 Physics
 Precalculus
 Welding
 Woods Technology 1

ADDITIONAL COURSES FOR SPECIFIC PATHWAYS

Health, Safety & Environmental Assurance:

Environmental Science
 Engineering Materials

Logistic & Inventory Control:

Accounting
 Engineering Materials
 Statistics

Maintenance, Installation & Repair:

Engineering Materials
 Metal Processes
 Welding

Manufacturing Production

Process Development:

Algebra 2
 Engineering Materials
 Welding

Production:

Engineering Materials
 Mechanical CAD Design
 Woods Technology

Quality Assurance:

Engineering Materials
 Machine Tools Technology
 Woods Technology

CAREER OPTIONS IN MANUFACTURING

* =Entry Level
 ** =Certificate, Technical or Associate Degree or Apprenticeship
 *** =Bachelor or Advanced Degree
 HOT*** =An occupation that is expected to grow over the next 10 years.

Health, Safety and Environmental Assurance Pathway

Environmental Engineers HOT***
 Environmental Technicians**
 Environmentalists***
 Nuclear Technicians**
 Occupational Health and Safety Specialists***
 Occupational Health and Safety Technicians***

Logistics and Inventory Control Pathway

Communications and Operations Managers***
 Expeditors*
 Industrial Truck Operators*
 Order Fillers*
 Production and Planning Clerks*

Maintenance, Installation, and Repair Pathway

Biomedical Equipment Technicians*
 Bowling Alley Mechanics*
 Camera Technicians**
 Communications Line Maintainers**
 Computer Technicians**
 Consumer Electronics Technicians**
 Data Processing Equipment Technicians**
 Electric Motor Technicians**
 Electrical Appliance Services**
 Electrical Line Maintainers**
 Electromechanical Technicians***
 Farm Equipment Technicians**
 Gasoline Engine Technicians**
 Gunsmiths**
 Industrial Machinery Workers**
 Instrumentation Technicians***
 Laser Technicians**
 Locksmiths**
 Machinery Maintenance Workers**
 Machinists**
 Maintenance Electricians**
 Maintenance Mechanics**
 Mechanical Control Technicians**
 Metal and Plastic Processing Machine Setup Operators*
 Metal Fabricating Machine Setup Operators**
 Metalworking and Plastic working Machine setup Operators**
 Millwrights**
 Miscellaneous Machine Setup Operators**
 Musical Instrument Repairers**
 Numerical Control Machine Setup Operators**

Office Machine Technicians**
 Paper Machine Setup Operators**
 Piano Technicians**
 Refrigeration Technicians HOT**
 Satellite Reclamation Technicians**
 Security System Technicians**
 Stationary Engineers**
 Technician and Repair Helpers*
 Textile Machine Setup Operators**
 Tool Grinders**
 Watch Technicians**
 Woodworking Machine Setup Operators**

Manufacturing Production Process Development Pathway

Apparel Pattern makers**
 Chemical Plant Operators**
 Core Makers**
 Electrical Engineering Technicians**
 Electrical Engineers***
 Electromechanical Technicians**
 Electronic Engineers***
 Electronics Engineering Technicians**
 Engineering Managers***
 Industrial Engineering Technicians**
 Industrial Engineers***
 Industrial Production Managers***
 Machinists**
 Mechanical Drafters**
 Mechanical Engineering technicians**
 Mechanical Engineers***
 Metal Pattern Makers**
 Molders***
 Precision Pattern and Model Makers**
 Tool and Die Makers**
 Tool Designers***
 Tool Programmers**
 Wood Model Makers**
 Wood Pattern Makers**
 Zero-Gravity Material Technologists***

Production Pathway

Apparel and Home Furnishings Dyers*
 Boilermakers**
 Chemical Plant Operators**
 Combination Welders**

Core Makers**
 Dental Laboratory Technicians**
 Electromechanical Technicians**
 Engravers*
 Fabricator and Inspector Helpers*
 Fiberglass Laminators*
 Furniture Finishers*
 Gas Plant Operators**
 Gem Workers**
 General Foundry Workers*
 Hand Workers*
 Layout Workers**
 Machine Operator and Tender Helpers*
 Metal and Plastic Processing Machine Operators and Tenders*
 Metal and Plastic Processing Machine Setup Operators*
 Metal Fabricating Machine Setup Operators and Tenders*
 Metalworking and Plastic working Machine Operators and Tenders*
 Metalworking and Plastic Working Machine Setup Operators**
 Mining Machine Operators*
 Miscellaneous Machine Operators and Tenders*
 Miscellaneous Machine Setup Operators**
 Numerical Control Machine Setup Operators**
 Oil Well Drillers*
 Ornamental Iron Workers**
 Paper Machine Setup Operators**
 Precision Assemblers*
 Precision Calibrators*
 Precision Production Supervisors**
 Production Assemblers*
 Production Machine Operators and Tenders*
 Production Supervisors**
 Shipfitters**
 Solderers and Brazers**
 Textile Machine Operators and Tenders*
 Textile Machine Setup Operators*
 Tire Builders*
 Upholsterers**
 Woodworking Operators**
 Woodworking Machine Operators and Tenders**
 Woodworking Machine Setup Operators**

Quality Assurance Pathway

Electronics Inspectors*
 Fabricator and Inspector Helpers*
 Hand Workers*
 Production Inspectors*
 Quality Control Technicians**
 Samplers*
 Weighers, Measurers, and Checkers*

ADDITIONAL COURSES FOR SPECIFIC CAREERS	WORK-BASED LEARNING	CO-CURRICULAR STUDENT ORGANIZATIONS & ACTIVITIES
Algebra 2 Architectural CAD Design 1, 2, 3 Blue Print Reading & Construction Est. Environmental Science Intro. to Electronics Precalculus Statistics Woods (Advanced)	Senior Work Apprenticeships Internships	



Careers in marketing, sales, and service encompass planning, managing, and performing marketing activities that are designed to reach organizational objectives.



INTERESTS & ABILITIES

Activities that describe what I like to do:

- Shop and go to the mall
- Be in charge
- Make displays and promote ideas
- Give presentations and enjoy public speaking
- Persuade people to buy products or participate in activities
- Communicate my ideas to other people
- Take advantage of opportunities to make extra money

Personal qualities that describe me:

- Enthusiastic
- Competitive
- Creative
- Self-motivated
- Persuasive

School subjects that I like:

- Language Arts
- Math
- Business Education/Marketing
- Economics
- Computer Applications

PATHWAYS IN THIS CLUSTER

- Buying & Merchandising
- Distribution & Logistics
- E-Marketing
- Management & Entrepreneurship
- Marketing Communications & Promotions
- Marketing Information Management & Research
- Professional Sales & Marketing

SUGGESTED COURSES FOR THIS CLUSTER

Accounting
 Algebra 2
 Business Concepts
 Creative Writing
 Debate
 Design
 Drawing
 Economics
 Foreign Language
 Information Processing
 Intermediate Writing
 Interpersonal Communications
 Marketing
 Psychology
 Sociology
 3-D Art
 Web Page Development

ADDITIONAL COURSES FOR SPECIFIC PATHWAYS

Buying & Merchandising:

Accounting
 Marketing
 Psychology

Distribution & Logistics

Accounting
 Business Concepts
 Marketing

E-Marketing

Marketing
 Web Page Development

Management & Entrepreneurship:

Accounting
 Information Processing
 Marketing

Marketing Communications

& Promotions:

Accounting
 Digital Graphic Arts
 Marketing

Marketing Information

Management & Research:

Information Processing
 Marketing
 21st Century Research & Tech. Writing

Professional Sales & Marketing

Interpersonal Communications
 Marketing

CAREER OPTIONS IN MARKETING, SALES, & SERVICE

* =Entry Level
 ** =Certificate, Technical or Associate Degree or Apprenticeship
 *** =Bachelor or Advanced Degree
 HOT*** =An occupation that is expected to grow over the next 10 years.

Marketing Communications Pathway

Advertising Accounting Executives***
 Advertising Layout Designers**
 Business Agents***
 Food Stylists**
 Public Relations Manager***
 Public Relations Practitioners***
 Telemarketing*
 Wedding Planners*

Merchandising Pathway

Buyers**
 Classified Ad Clerks*
 Commodity Sales Supervisors***
 Customer Service Representatives*
 Department Store Managers***
 Display Persons**
 Purchasing Agents**

Professional Sales Pathway

Advertising Sales Representatives**
 Antique/Collectible Dealers*
 Auctioneers**
 Automobile Salespersons*
 Business Services Sales Representatives**
 Counter Clerks**
 Customer Service Representatives**
 Direct Sales Representatives*
 Home Improvement Product Salespersons**
 Insurance Agents***
 Models*
 Personal Product Salespersons*
 Real Estate Agents**
 Real Estate Brokers**
 Recreation and Leisure Product Salespersons*
 Technical Salespersons**

Marketing Management Pathway

Advertising Managers***
 Cashiers*
 Direct Sales Representatives*
 Marketing Managers***
 News Vendors*
 Public Relations Manager***
 Purchasing Managers**
 Street Vendors*

Marketing Research Pathway

Market Research Analysts***
 Research Analysts***

ADDITIONAL COURSES FOR SPECIFIC CAREERS	WORK-BASED LEARNING	CO-CURRICULAR STUDENT ORGANIZATIONS & ACTIVITIES
Applied Yearbook Business Law Creative Writing Digital Graphics Art Environmental Science Foreign Language Journalistic Writing Sociology	Internships Senior Work	Debate FBLA FCCLA



INTERESTS & ABILITIES

Activities that describe what I like to do:

- Interpret formulas
- Find answers to questions
- Work in a laboratory
- Figure out how things work and investigate new things
- Explore new technology
- Experiment to find the best way to do something
- Pay attention to details and help things to be precise

Personal qualities that describe me:

- Detail oriented
- Inquisitive
- Objective
- Methodical
- Mechanically inclined

School subjects that I like:

- Math
- Science
- Drafting/Computer Aided Drafting
- Electronics/Computer Networking
- Technical Classes/Technology Education

PATHWAYS IN THIS CLUSTER

- Engineering and Technology
- Science and Math



SUGGESTED COURSES FOR THIS CLUSTER

Algebra 2
 AP Biology
 AP Chemistry
 Architectural CAD Design
 Calculus
 Design
 Digital Graphic Arts
 Engineering Materials
 Foreign Language
 Intermediate Writing
 Mechanical CAD Design
 Physics
 Precalculus

ADDITIONAL COURSES FOR SPECIFIC PATHWAYS

Engineering and Technology:
 Architectural CAD Design
 Calculus
 Chemistry
 Digital Electronics
 Engineering Materials
 Mechanical CAD Design
 Physics
 21st Century Research & Tech. Writing

Science and Math:
 Algebra 2
 AP Biology
 AP Chemistry
 Precalculus
 Vertebrate Biology

CAREER OPTIONS IN SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS

* =Entry Level
 ** =Certificate, Technical or Associate Degree or Apprenticeship
 *** =Bachelor or Advanced Degree
 HOT*** =An occupation that is expected to grow over the next 10 years.

Engineering and Technology Pathway

- Aerospace Engineers***
- Agricultural Engineers***
- Ceramic Engineers***
- Chemical Engineers***
- Chemical Technicians**
- Civil Engineering Technicians**
- Civil Engineers***
- Computer Engineers***
- Electrical Engineering Technicians**
- Electrical Engineers***
- Electronic Engineers***
- Electronics Engineering Technicians**
- Engineering Managers***
- Environmental Engineers HOT ***
- Humanoid Robotics Designers***
- Industrial Engineering Technicians**
- Industrial Engineers***
- Marine Engineers***
- Mechanical Drafters**
- Mechanical Engineering Technicians**
- Mechanical Engineers***
- Mining Engineers***
- Nuclear Engineers***
- Nuclear Technicians**
- Packaging Engineers***
- Petroleum Engineers***
- Petroleum Technicians**
- Software Engineers HOT ***
- Solar Engineers***
- Space Systems Technicians**
- Technical Writers***
- Tool Designers***

Science and Math Pathway

- Agronomists***
- Animal Scientists***
- Anthropologists***
- Archaeologists***
- Astronomers***
- Biological Scientists***
- Biological Technicians**
- Biomedical Engineers HOT ***
- Cartographers***
- Chemical Technicians**
- Chemists***
- Computer Programmers***
- Computer Security Specialists HOT ***
- Computer Systems Analysts HOT ***
- Enologists***
- Environmental Technicians**
- Environmentalists***
- Food Processing Technicians**
- Food Technologists***
- Geneticists HOT ***
- Geographers***
- Geologists***
- Horticulturists***
- Hydrologists HOT ***
- Information Scientists***
- Insurance Underwriters***
- Job Analysts***
- Materials Scientists***
- Mathematical Technicians**
- Mathematicians***
- Metallurgists***
- Meteorologists***

- Oceanographers***
- Paleontologists***
- Physicists***
- Research Analysts***
- Scientific & Engineering Programmers***
- Seismologists***
- Sociologists***
- Soil Conservationists***
- Statistical Clerks*
- Statisticians***
- Veterinarians***
- Veterinary Researchers***
- Wildlife Biologists***
- Zero-Gravity Material Technologists***
- Zookeepers***

ADDITIONAL COURSES FOR SPECIFIC CAREERS	WORK-BASED LEARNING	CO-CURRICULAR STUDENT ORGANIZATIONS & ACTIVITIES
Earth Science Economics Employability Skills Environmental Science Personal Money Management Statistics Vertebrate Biology	Independent Study Senior Work	



Transportation, Distribution & Logistics

Careers in transportation, distribution and logistics encompass the planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water. This also includes services such as transportation, infrastructure planning, management, logistics services, mobile equipment and facility maintenance.



INTERESTS & ABILITIES

Activities that describe what I like to do:

- Travel
- See well and have quick reflexes
- Solve mechanical problems
- Design efficient processes
- Anticipate needs and prepare to meet them
- Drive or ride
- Move things from one place to another

Personal qualities that describe me:

- Realistic
- Mechanical
- Coordinated
- Observant
- Planner

School subjects that I like:

- Math
- Trade and Industry courses
- Physical Sciences
- Economics
- Foreign Language

PATHWAYS IN THIS CLUSTER

- Facility and Mobile Equipment Maintenance
- Health, Safety and Environmental Management
- Logistics Planning and Management Services
- Sales and Service
- Transportation Operations
- Transportation Systems/Infrastructure Planning, Management and Regulation
- Warehousing and Distribution Center Operations

SUGGESTED COURSES FOR THIS CLUSTER

Accounting
Algebra 2
Automotive Systems 1
Chemistry
Consumer Auto
Economics
Engineering Materials
Environmental Science
Integrated Math 1, 2, 3
Intermediate Writing
Marketing
Physics
Power Mechanics

ADDITIONAL COURSES FOR SPECIFIC PATHWAYS

Facility & Mobile Equipment

Maintenance:

Consumer Auto
Digital Electronics

Health, Safety and Environmental Management:

Environmental Science
Health

Logistics Planning and Management Services:

Accounting
Marketing

Sales and Service:

Consumer Auto
Marketing

Transportation Operations:

Automotive Systems
Consumer Auto
Digital Electronics

Transportation Systems Infrastructure Planning, Management and Regulation:

Accounting
Consumer Auto
Engineering Materials

Warehousing and Distribution Center Operations:

Accounting
Automotive Systems
Consumer Auto

CAREER OPTIONS IN TRANSPORTATION, DISTRIBUTION, & LOGISTICS

* =Entry Level
 ** =Certificate, Technical or Associate Degree or Apprenticeship
 *** =Bachelor or Advanced Degree
 HOT*** =An occupation that is expected to grow over the next 10 years.

Facility and Mobile Equipment

Maintenance Pathway

Aircraft Engine Mechanics
 Aircraft Mechanics
 Auto Body Technicians
 Automobile Painters
 Automobile Parts Salespersons
 Avionics Technicians
 Bicycle Technicians
 Car Wash Attendants
 Diesel Technicians
 Electromechanical Technicians
 Gasoline Engine Technicians

Health, Safety and Environmental

Management Pathway

Environmental Technicians
 Environmentalists
 Global Environmental Corps
 Hazardous Waste Specialists
 Industrial Waste Inspectors
 Nuclear Technicians
 Public Health Sanitarians
 Security Consultants
 Waste Disposal Attendants

Logistics Planning and Management

Services Pathway

Industrial Clerks
 Logisticians

Sales and Service Pathway

Reservation and Ticket Clerks
 Travel Agency Managers
 Travel Agents

Transportation Operations Pathway

Air Traffic Controllers
 Airline Pilots
 Astronauts
 Boat and Barge Operators
 Brake Couplers
 Bridge and Lock Tenders
 Bus Drivers
 Deckhands
 Delivery Drivers
 Flight Attendants
 Great Lakes Ship Officers
 Heavy Truck Drivers
 Highway Maintenance Workers
 Light Truck Drivers
 Locomotive Engineers
 Material Moving Equipment Operators
 Mining Managers
 Parking Lot Attendants
 Petroleum Plant Operators
 Power Plant Operators
 Railroad Conductors and Yardmasters
 Taxicab Drivers
 Transportation and Material Moving Supervisors
 Transportation Operations Managers
 Vending Machine Services

Transportation Systems/Infrastructure Planning, Management & Regulation Pathway

Cartographic Technicians
 Mechanical Engineering Technicians
 Mechanical Engineers
 Space Station Assembly Technologists
 Surveying Technicians

Switch Tenders
 Transportation Inspectors

Warehousing and Distribution Center Operations Pathway

Bridge and Gantry Crane Operators
 Central Supply Technicians
 Expeditors
 Freight, Stock, and Material Handlers
 Gas Plant Operators
 Grips
 Helper, Handler, and Laborer Supervisors
 Hoist and Winch Operators
 Industrial Truck Operators
 Long shoring Equipment Operators
 Petroleum Plant Operators
 Power Plant Operators
 Production and Planning Clerks
 Riggers
 Transportation & Material Moving Supervisors
 Truck Crane Operators
 Heavy Construction Equipment Technicians
 Industrial Truck Technicians
 Marine Oilers
 Motor Vehicle Technicians
 Motorcycle Mechanics
 Rail and Track Laying Equipment Operators
 Service Station Attendants
 Technician, Mechanic, and Repairer Supervisors
 Tire Repairers and Changers
 Windshield Installers

ADDITIONAL COURSES FOR SPECIFIC CAREERS	WORK-BASED LEARNING	CO-CURRICULAR STUDENT ORGANIZATIONS & ACTIVITIES
Algebra 2 Automotive Systems Employability Skills Intermediate Writing	School to Work Internships	

ART

CERAMICS 013 – 9, 10, 11, 12 (1 Semester - .5 credit)

Recommended: Design or Ceramics 8th gr.

This class is about clay and three-dimensional design. Review and expand upon basic hand-building and wheel-throwing techniques to make decorative or functional items. Learn about tools, procedures, methods, techniques and art history related to ceramics. Fee.

DESIGN 012 - 9, 10, 11, 12 (1 Semester - .5 credit)

Students will do hands-on art projects, using a variety of mediums to learn, study and practice using the pieces and parts of “design,” the ELEMENTS, and the rules for using those parts: the PRINCIPLES.

Emphasis is on theory and application of color, line, texture, shape and balance, rhythm, proportion, scale, unity – harmony and center of interest. Use these systems of design to create visual representations.

Expand your horizons as you try various techniques to develop art-making skills and appreciate beauty and craftsmanship. This course will aid you in areas such as graphic design, architecture & interiors, fashion, and all the fine arts...like drawing, painting, ceramics, sculpture, etc. Fee.

DRAWING 1 017 – 9, 10, 11, 12 (1 Semester - .5 credit)

Recommended: Design or Drawing grade 8

Drawing 1 is a beginning level course in which drawing is shown to be a foundation for all the visual arts, as well as an exciting art form in itself. The importance of seeing and understanding through the act of drawing is stressed, along with the specifics of line, form, light, space, color and composition. Students explore a variety of media, drawing surfaces and subjects. Techniques such as gesture drawing, contour drawing, proportion studies and shading methods will be practiced as students draw both simple and complex subjects. Fee.

DRAWING 2 018 – 9, 10, 11, 12 (1 Semester - .5 credit)

Prerequisite: Drawing 1

Students will continue developing drawing skills using a variety of mediums. Students will practice various drawing methods and techniques to problem-solve as they increase their creativity and originality. Emphasis is on controlling contrasts, light, volume, gesture, placement and proportion. Students will use tone and line to create mood and dimension as they learn to express themselves and communicate ideas on a two-dimensional surface, to produce quality art. Fee.

PAINTING (Acrylic and Watercolor) 019– 10, 11, 12

(1 Semester - .5 credit)

Prerequisite: Design. Recommended: Drawing 1

Painting involves a “special” kind of seeing. The artist’s way of seeing and expressing can be learned through experience. Study color, composition, art history, and techniques in WATERCOLOR, TEMPERA & ACRYLIC paint. You will get to paint a variety of subject matters (such as landscape, still life, etc.) on a variety of surfaces. Watercolor is transparent, whereas the acrylic is more opaque. Try them both. Begin working on easier projects while progressing to more challenging projects and assignments, allowing student to practice individual express in these fine art mediums.

THREE DIMENSIONAL ART 025 - 10, 11, 12 (1 Semester - .5 credit)

Prerequisites: Ceramics, Design

This course is for students who want to continue developing both hand-building and wheel throwing skills in ceramics, and for those

who wish to try other materials for designing and building relief and 3-D sculptures; such as plaster cloth, wire, mobiles, wood, assemblage, etc. Form and shape in the round. Functional and/or decorative.

Develop a personal vision and working style through demonstrations, videos, research, critiques, art history and studio work. Fee.

BUSINESS

Courses in the Business and Information Department focus on teaching people, technology, and financial literacy skills. In addition, the competency-based curriculum helps students understand how a business operates, learn where and how technology is used, develop employability and task-specific skills, select a career direction, market themselves, businesses, or organizations, and develop lifelong learning.

FBLA – Future Business Leaders of America is the oldest and largest national organization for student’s preparing for careers in business leadership. FBLA – prepares students for “real world” professional experiences. Members gain the competitive edge for college and career successes. More than 250,000 members and adviser in 6,000 schools participate. FBLA’s programs provide a relevant context for learning, including practical applications for classroom skills and knowledge. These programs will help you connect to the school, to the community, and to the business world. Choose from more than 40 different event categories including web page design, marketing, business plan, public speaking, and job interview. Members have the opportunity to compete and win on the local, state, and national levels. FBLA takes you to major business centers throughout the United States and you attend conferences in cities like Orlando, FL; Nashville, TN; and Anaheim, CA. You will get to know people in your state and across the nation at state and nationally sponsored events. Become a leader in your school, state, or country when you join FBLA.

Transcribed Credit Courses with

Nicolet Area Technical College

(Nicolet course name is italicized after RHS course.)

The Business Department has created agreements with Nicolet Area Technical College to offer Wisconsin Technical College credit along with high school credit in some business courses. Students that enroll and complete the course at a required standard can receive both high school and Nicolet Area Technical College credit. Students should expect a college level rigor for courses, except Information Processing 1.

ACCOUNTING 1 062 - 10, 11, 12 (1 Semester - .5 credit)

(Accounting Principles)

This is an introductory course designed to allow students to explore the endless possibilities of the accounting profession and to build the foundation for their journey into the world of business. The basic accounting cycle that all service and merchandising enterprises follow will be used as core curriculum to teach the concepts of “real world” accounting principles. Note: All post-secondary certificate & degree programs in business require accounting credits.

ACCOUNTING 2 063 - 10, 11, 12 (1 Semester - .5 credit)

Prerequisite: Accounting 1

In this course students will continue to build on their foundation of “the language of business” by completing the accounting cycle for businesses organized as privately held merchandising corporations (businesses that sell products rather than services). Special journals will be used to teach the more efficient bookkeeping process that most

High School Class	High School Credit	Equals	Nicolet Class	Nicolet Credit
Information Processing 1	0.5	Equals	Computer Keyboarding	1
Information Processing 2	0.5	Equals	Document Processing	3
Computer Applications	0.5	Equals	IT Fundamentals	2
Marketing Principles	0.5	Equals	Marketing Principles	3
Accounting 1	0.5	Equals	Accounting Principles	2
Intro to Digital Media	0.5	Equals	Computer Literacy	1
Total	3.5	Equals	Total	12

Courses available though individualized instruction with teacher approval:

*Accounting 3, Accounting 4, Applied Yearbook,
International Business, Interactive Multimedia*

large businesses use. A special unit on payroll will be presented so students can learn all the different aspects that go into “receiving a paycheck.” Like Accounting 1, this course also concludes with a comprehensive “real life” business simulation.

APPLIED YEARBOOK 441 - 10, 11, 12 (1 Semester - .5 credit)

This comprehensive course puts to practice applied principles of a small business, desktop publishing, journalism, marketing, basic accounting, business and management skills. Areas stressed during the course will include sales, marketing, article writing, digital photography, graphic design, photo editing, teamwork, and professional publishing business practices. Since the class produces a final product that will be marketed and sold, class periods will be conducted in a functional business environment. Strong writing and computer skills are necessary for this course, as well as an excellent work ethic and the ability to meet deadlines. Class size and number of classes offered may be limited.

BUSINESS CONCEPTS 050 - 9, 10, 11, 12 (1 Semester - .5 credit)

This course introduces students to the realities of business and entrepreneurship. Ideal course for those considering a career in business or just interested in how a business works. Topics covered include: types of businesses, importance of small business, current trends in business, marketing and society, what a business gives to its community and characteristics of most people in business. By concentrating on individuals involved in real-life business situations, the students can get a clearer understanding of the overall structure of American business. A simulation is used in which students act as managers, interacting with each other in a model business community.

BUSINESS LAW 068 - 10, 11, 12 (1 Semester - .5 credit)

This course focuses on the changes in legal rights and responsibilities that occur when you become 18. The purpose is to inform you of your rights and to help you recognize and avoid possible problems. Specific topics to be covered include but are not limited to: voting, military service, jury duty, alcohol/drugs, driving, criminal charges, sexual crimes, and a special emphasis on contracts which includes employment, rental, leases, insurance, marriage/divorce, credit, and consumer protection. Actual court cases are integrated throughout the course to help authenticate the concepts being taught.

COMPUTER APPLICATIONS 092 - 9, 10, 11, 12

(1 Semester - .5 credit)

(IT Fundamentals)

Computer Applications is an elective one-semester course, recommended for all students, grades 9-12. This course is designed to be flexible and to adapt to changes in current trends in technologies and business. Real-world, practical business application of software packages is stressed. Introductory level skills will be developed using integrated software packages that include word processing, spreadsheets, databases, and presentation graphics. Other units included are: desktop publishing; animation, internet access and use, web 2.0 and manipulation, and careers.

DIGITAL GRAPHICS ARTS 031 - 9, 10, 11, 12 (1 Semester - .5 credit)

This course has a project-based curriculum that develops career and communication skills in print production and graphic design, using Adobe tools. Visual Design develops four key skill areas: Project management and collaboration, Design, Research and communication, and Professional print production using graphic design tools. Students develop these key skills in a spiral—each project adds more challenging skills to foundation proficiencies. Students experience subject areas and skills across careers in graphic design, photography, print and layout design, and production.

EMPLOYABILITY SKILLS 080 - 10, 11, 12 (1 Semester - .5 credit)

STRONGLY RECOMMENDED FOR ALL STUDENTS

This course is designed to help ALL students gain the knowledge and skills necessary to make a successful job and career search, and make the transition into the adult working world. Topics covered include: resume and interview skills, work attitude, employer expectations, business manners, time management and dressing for success. In addition to credit for this course, the student is able to earn an additional ½ credit, as well as an Employability Skills Certificate from the State for taking this course, as well as being employed. More details about this opportunity can be obtained from the teacher.

INFORMATION PROCESSING 1 052 - 9, 10, 11, 12

(1 Semester - .5 credit)

(Computer Keyboarding)

STRONGLY RECOMMENDED FOR ALL STUDENTS

The major objectives of this course are to develop touch control of the keyboard and proper keyboarding techniques, build basic speed and accuracy skills, and provide practice in applying those basic skills to the formatting of letters, tables, reports, memos and many other kinds of personal, personal-business and business documents. Students are able to improve their language arts skills through production exercises that incorporate proofreading, spelling, punctuation, capitalization, number expression, subject-verb agreement, abbreviations and word choice. Microsoft Word 2010 is used in the course extensively.

INFORMATION PROCESSING 2 053 - 9, 10, 11, 12

(1 Semester - .5 credit)

(Document Processing)

This second Semester of the information processing cycle promotes the further development of basic keyboarding skills and emphasizes the production of a wide range of typical business correspondence, tables, reports, and forms from unarranged and rough-draft sources. A unit in transcribing dictated materials using word processing is included. In addition, integrated projects emphasize and provide practice in applying such skills as editing, abstracting, decision making, setting priorities, following directions, working under pressure and working with interruptions. Reinforcement of language arts skills continued. Advanced formatting techniques are further developed.

INTRODUCTION TO COMPUTER PROGRAMMING 093

9, 10, 11, 12 (1 Semester - .5 credit)

Prerequisites: Algebra 1 or Integrated Math 2

Introduction to Programming is an elective one-Semester course open to all students, grades 9-12. Topics include the Visual Basic, NET - Integrated Development Environment, building an application and working with variables, constants, data types, and expressions. Problem solving, programming and computer logic, and proper code form is stressed. Students also learn about decision-making, multiple forms, procedures, functions, debugging, and creating executable files. Units, Ion careers and game programming will be offered.

INTRODUCTION TO DIGITAL MEDIA 030 - 9, 10, 11, 12

(1 Semester - .5 credit)

(Computer Literacy)

This introductory course is designed to give a broad exposure to many types of digital technology and open the doors to a career pathway in the communication technology field and is used as a stepping-stone to more advanced IT courses. Students will study and complete units covering computer programming, desktop publishing, webpage design, digital photography, digital video production, computer-aided drafting/design, and digital graphics. After successful completion, students will be leaders in digital media when taking other high school courses, e.g., math, science, English and social studies.

INTRODUCTION TO LEADERSHIP MANAGEMENT 081

11, 12 (1 Semester - .5 credit)

The solution to today's productivity dilemma will not be found in gaining more authority, more control, and "doing more things right." The answer can be found in the process of leadership, of inspiration and influence, and of "doing more of the right things" when dealing with people. Leadership is more than a mere position. Managers use

their authority of position to control people. Leaders use their ability to build commitment with a value-driven direction and a process of involvement. Leaders are NOT born, they are developed; this course is aimed at beginning that development. Some units in the course are as follows: motivation, skillful problem solving, delegation, group direction, positive attitudes, self-esteem, enthusiasm, goal setting, time management, listening, and positive discipline and performance appraisal. All of these topics may be applied not only to a profession, but also to our social, mental, physical, spiritual, financial, and family lives.

MARKETING PRINCIPLES 083 - 10, 11, 12 (1 Semester - .5 credit)

(Marketing Principles)

Marketing is the process of planning, pricing, promoting, and selling to create exchanges that satisfy customers. Marketers are the people that create a way to plan a product, what is the price range for a product, advertise the product, and how to sell the product. From Apple to Wal-Mart all companies use marketing to sell/promote their products. If you want to learn about how to sell anything from yourself to someone else's idea, take Marketing.

PERSONAL MONEY MANAGEMENT 069 - 10, 11, 12

(1 Semester - .5 credit)

STRONGLY RECOMMENDED FOR ALL STUDENTS

This course will help students come face-to-face with financial concerns such as: credit, checking, saving, insurance, investing, taxes, budgets and other money related responsibilities of adult life. It will give the students the tools they need to become independent thinkers and money managers so they can achieve their own personal, financial and consumer goals.

WEB PAGE DEVELOPMENT 091- 9, 10, 11, 12 (1 Semester - .5 credit)

Students in this course will learn to build and maintain web sites using HTML programming and FrontPage, publish online content integrating multimedia components, locate and evaluate existing web pages on the Internet, and understand the legal and ethical ramifications of displaying web pages on the Internet. The final completion project for this class will be an independently designed web site created using HTML or Dreamweaver.

DRIVER AND TRAFFIC SAFETY EDUCATION

CLASSROOM 9, 10, 11, 12 - 32 hours

This is a six-month class offered to students 15 years 5 months old and older beginning with a mandatory parent meeting and the temps test for eligible students (meeting and test are normally scheduled 1 to 2 weeks prior to the start of class). Students are expected to pick up the Wisconsin Motorist Handbook from the Department of Motor Vehicles or the Driver Education teacher prior to the temps test, so that the learners permit can be secured as soon as possible. There will be a new session starting about every 2 months, thus six sessions will be started during the course of the year. The classroom phase of drivers' education will be taught from 6:45 - 7:45 am twice a week during the first two months. Beginning in the 3rd month, students will attend class once a week for the next four months. Parents will need to arrange transportation for these early morning classes.

Topics of study include; GDL requirements, zone control, instrument control and devices, risk management, right of way rules, traffic signs and signals, road way markings, special driving environments, sharing

the roadway with other vehicles, effects of alcohol and other drugs, risks related to distractions (cell phone/texting), drowsy driving, and the importance of wearing seat belts.

BEHIND THE WHEEL (BTW) Lessons will run concurrently with classroom instruction. Driving instruction will be delivered in two hour blocks of time, a minimum of six hours of BTW instruction will be given. Students are expected to have the learners permit in their possession every day.

A technical writing analysis will be required after each driving lesson. Observations made during the lesson need to be identified, organized and recorded within the guidelines given to the student.

A program fee is charged for this class and payment is expected within the first month of class.

ENGLISH

GRADUATION REQUIREMENTS:

4.0 credits of English, including a writing course, which incorporates instruction in written communication, oral communication, grammar and usage of the English language and literature.

REQUIRED COURSE SEQUENCE:

9th grade - English Survey 1a/1b or Accelerated English Survey 1a/1b

10th grade - English Survey 2a/2b or Accelerated English Survey 2a/2b

11th, 12th grade - English electives (1.5 credits)
Writing course (.5 credit)

- Students must have successfully complete English Survey 2a/2b or Accelerated English Survey 2a/2b as a prerequisite for all (U) and (AP) English courses.
- Classes that have an asterisk (*) next to the name fulfill the writing requirement for graduation.

ENGLISH SURVEY 1a/1b 100/101 - 9
(2 Semesters - .5 credit per semester)

9th grade students are required to take either this course or Accelerated English Survey 1a/b. This is a two semester course with .5 credit awarded for each semester. Students will develop skills in the following areas: reading comprehension, writing, and formal/informal speaking. Students will analyze and discuss the genres of poetry, fiction, non-fiction and drama. A writing assessment is administered at the end of this course.

ACCELERATED ENGLISH SURVEY 1a/1b 1011/1012 - 9
(2 Semesters - .5 credit per semester)

9th grade students are required to take either this course or English Survey 1a/b. Placement in this course should be recommended by the 8th grade English teacher. This is a two semester course with .5 credit awarded for each semester. Students will develop skills in the following areas: reading comprehension, writing, and formal/informal speaking. Students will analyze and discuss the genres of poetry, fiction, non-fiction and drama. This course mirrors the curriculum in English Survey 1a and b, but the rigor and expectations for this course merit the accelerated title. Titles studied are Of Mice and Men, A Tale of Two Cities, To Kill a Mockingbird, A Midsummer Night's Dream and Tallgrass.

ENGLISH SURVEY 2a/2b 104/105 - 10
(2 Semesters - .5 credit per semester)

English Survey 2a/2b is a two semester course that reinforces the fundamentals of language arts and introduces critical analysis. Students will practice and demonstrate skills in reading, writing, speaking, and listening. Students in 2a will master reading strategies to better understand the fiction and nonfiction texts connected to the theme of "Coming of Age." Students will complete research projects, media products, and speeches. Writings include reflective, persuasive, and definition essays. Students in 2b will analyze, discuss, and write about novels, poems, and drama related to the theme of "Standing up for Justice," delving deeper into literary devices and techniques. Students will also write a research essay using MLA format.

ACCELERATED ENGLISH SURVEY 2a/2b 1015/1016 - 10
(2 Semesters - .5 credit per semester)

English Survey 2a/2b is a two semester course that reinforces the fundamentals of language arts and introduces critical analysis. Students will practice and demonstrate skills in reading, writing, speaking, and listening. Students in 2a will master reading strategies to better understand the fiction and nonfiction texts connected to the theme of "Coming of Age." Students will complete research projects, annotated bibliographies, media products, and speeches. Writings include impromptu, reflective, argumentative, literary analysis, comparison/contrast, and definition essays. Students in 2b will analyze, discuss, and write about novels, poems, and drama related to the theme of "Standing up for Justice," delving deeper into literary devices and techniques. Students will also write a complete research paper using MLA format. This course mirrors the curriculum in English Survey 2, but the rigor and expectations for this course merit the accelerated title and it is intended as proper preparation for Advanced Placement work during junior and senior years.

CONTEMPORARY LITERATURE 124 - 11, 12 (1 Semester - .5 credit)

Contemporary Literature is for students that like to read and talk about recently published literature that deals with timely issues affecting students' lives. It operates on the premise that good literature changes or adds to its reader. Students will read and discuss approximately five contemporary novels as well as current short stories and poetry. Individualism, the confusion of youth, war, and racial prejudice are some of the topics explored. These explorations will lead into extension projects, including formal writing that allow students to act in real, personally meaningful ways on the thoughts inspired by the literature.

CREATIVE WRITING* 110 - 10, 11, 12 (1 Semester - .5 credit)

The emphasis in this course is on creativity, originality, style, and audience. Students will continuously work to enhance their vocabulary and voice throughout the course. Examples of strong writing will be studied and discussed in the course. Students will further focus on idea generation, character development, sensory details, and conventions of strong writing. Such skills will be developed through short stories, poetry, fantasy stories, children's stories, and multi-genre narratives. Students also keep a daily creative writing journal, which they share with the class.

INTERPERSONAL COMMUNICATIONS 117- 11, 12
(1 Semester - .5 credit)

This course is designed to make students more effective speakers in an informal setting. The class defines and examines the foundations of human communication. This course is designed around the communication principles for a lifetime: understanding self and others, understanding verbal messages, understanding non-verbal messages, listening and responding, and adapting to others. Students will examine the role language plays in the development and maintenance of interpersonal relationships. Students will learn to appreciate and bridge culture and gender differences. Students will learn conflict management and presentation skills. This course was developed in alignment with an introductory university course, and is intended for any student who wishes to improve their communication skills.

INTERMEDIATE WRITING* 118 - 11, 12 (1 Semester - .5 credit)

Intermediate writing is an elective course that focuses on discovery and application of individual writing process from prewriting through revision and publishing. This course begins examining paragraph structure then moves through the personal essay, the persuasive/argumentative essay and the application essay. Focusing on revision, the course provides extensive practice in coherence, structure and detail. The class includes extensive guided practice in peer revision as well as sentence combining and editing. All students will benefit from this class, but electing it before the upper level weighted courses is most valuable.

JOURNALISTIC WRITING* 119 - 11, 12 (1 Semester - .5 credit)

Journalistic Writing is designed for students with an interest in gaining a working knowledge of the unique types of writing practiced by journalists. Subjects covered include the history and purpose of journalism, journalistic law, desktop publishing, and several story styles including news, feature, and editorial writing. Students practice these lessons in writing mock pieces and in contributing at least one article to each of the two editions of the school newspaper, The RHS Reporter, published each semester. These articles are worked through an extensive writing process including background research, interviewing, and editing. Students may also be involved in the photography, entertainment, and survey-taking portions of the newspaper. Finally, students will also learn video-editing skills as they create editions of Hodag Happenings, a student-created news broadcast.

LITERATURE FOR LIFE 1234 - 11, 12 (1 Semester - .5 credit)

This course blends both non-fiction and fiction to explore contemporary culture. Students will have an opportunity to examine a variety of themes and genre, encouraging life-long readership. Through the reading of texts, choice novels, essays, periodicals, and the viewing of documentaries, students will study struggles in American society, cultural ramifications of war, and efforts of extraordinary people. Students will learn to choose appropriate materials, respond creatively to texts and novels, and share insights about ideas in the readings in both written and oral formats, and gain skills in reading strategies.

ENGLISH IN THE DIGITAL AGE 1235 - 11, 12

(1 Semester - .5 credit)

English in the Digital Age is designed for students with an interest in studying and creating media in multiple formats. Students in this course produce several digital taped productions and broadcasts for school viewing. Class activities include planning each broadcast,

gathering information for productions, interviewing, writing scripts, videotaping, producing effective character generation, designing layouts and shots for television, and presentation. Students will also investigate how and what ideas, values and concepts are conveyed through film. Finally, in analyzing film, students will examine elements of plot, setting, style, and point of view. This work, in turn, will inform the creation of students' own films for a variety of purposes and audiences.

PRACTICAL ENGLISH* 1085 - 11, 12 (1 Semester - .5 credit)

Prerequisite: Recommendation by a Sophomore English Teacher or School Counselor.

The main objective of this course is to develop minimum competency writing skills. Students review grammar, punctuation, and the writing process to prepare students in the practical application of the English language in speaking, listening, and reading as strengthened communication skills. This class is designed for students who are intending to attend a technical college or go directly into the world of work. This class is not intended for students wanting to prepare for a four-year college.

DEBATE 111 - 9, 10, 11, 12 (1 Semester - .5 credit) (U)

Prerequisite: English 1a/b OR Accelerated English 1 a/b with a "B" or better. 9th graders must have instructor's approval.

Students will learn the principles of policy debate, including gathering and analysis of evidence and data. Debate students will abide by the Wisconsin Debate Coaches Association standards and will debate the nationally chosen topic for that year. This class is for highly motivated students who enjoy the challenge of analyzing and synthesizing information while using logic to think on their feet. Students will use advanced research skills, listening skills, speaking skills, critical thinking skills, organizational skills, and leadership skills. Students are highly encouraged, though not required, to participate in competitive debate.

DEBATE (ADVANCED) 135 - 10, 11, 12 (1 Semester - .5 credit) (U)

Prerequisite: Debate 1 with "C" or better

This course is offered only to students who have successfully completed Debate. This course will include an in depth presentation and analysis of debate, its theory, and implementation as well as advanced methods of research techniques and evidence gathering. Students will continue to progress in policy debate, focusing on being able to argue both sides of a given resolution. Further, students will be introduced to Public Forum and Lincoln Douglas debate formats. Students will enhance their critical thinking and public speaking skills. Advanced debate students are required to participate in out of district competitive debate. This course may be repeated for credit, with differentiation in assessment based on experience.

ENGLISH LITERATURE AND COMPOSITION* AP a/b 1295/1296 11, 12 (2 Semesters - .5 credit per semester) (U) (AP)

This two semester course is recommended for college-bound seniors interested in taking the AP Language and Composition test in the spring 2013 or simply studying university level literary analysis without taking the test itself. While not required, students may find that taking AP Language and Composition previous to this course would be helpful preparation. As Henry David Thoreau once said, "many a man can date a change in his life to the reading of a book." That said, this literature course will immerse students in classic works of prose, poetry, and drama and give readers opportunity (through discussions, films, possible field trips, and writing) to analyze those works

and their application to a meaningful life. The course will then add to a student's cultural literacy, create a sense of the impact of historical context on art, analyze works through critical lenses, and develop an understanding of how author's craft universal themes out of interesting story lines and a variety of literary techniques. In doing so, we will read storied works such as Homer's The Iliad, Sophocles' Oedipus, and Beowulf; English masterpieces such as Shakespeare's Macbeth, Swift's Gulliver's Travels, and various Romantic poets; American Renaissance pieces from Thoreau, Poe, Hawthorne, and Melville; 20th Century/modern pieces such as poems from Robert Frost, Fitzgerald's The Great Gatsby, and Salinger's The Catcher In The Rye; and, literally, much more. Finally, college-level impromptu and planned essay writing will be taught, although group presentations and media productions will be utilized as well as they are a 21st century means of expressing oneself.

LANGUAGE AND COMPOSITION* AP a/b 1223/1224 - 11, 12 (2 Semester - .5 credit per semester) (U) (AP)

This two semester course is recommended for college-bound juniors interested in taking the AP Language and Composition test in the spring 2013 or simply studying university level writing and reading without taking the test itself. It is also recommended preparation for AP Literature and Composition course during senior year. (Note: next year's seniors are encouraged to schedule the course if they have already taken enough AP literature coursework [two semesters] to take the AP Literature test in the spring of 2013). To be a thoughtful, productive citizen in the 21st Century, an individual must think critically, read widely with full comprehension, recognize bias and rhetoric, and write effectively from a perspective of strength and conviction.

This mainly non-fiction course is designed to, "engage students in becoming skilled readers of prose written in a variety of periods, disciplines, rhetorical context, and in becoming skilled writers who compose for a variety of purposes" (The College Board, AP Course Description, May 2010). We will read works such as In Cold Blood by Truman Capote, Animal, Vegetable, Miracle by Barbara Kingsolver, Julius Caesar by William Shakespeare, as well as various essays and speeches as a part of this course. We will then discuss, orally and in writing, techniques utilized in those texts. Finally, college-level study of grammar, usage, and syntax will be addressed as well.

LITERARY THEMES* AP 122 - 11, 12 (1 Semester - .5 credit) (U) (AP)

This course begins with a study of Homer's Odyssey and all of its themes. Students will then study Shakespeare's Hamlet for drama and Much Ado About Nothing for comedy and wit. They will investigate and analyze the Faust legend from its origins to the present. Extending the themes found in classic works, students read Toni Morrison's Beloved and Golding's Lord of the Flies. Students will write many literary analysis essays throughout the semester as well as a well-developed term paper. Whenever possible, music and art will be used to illustrate the themes being studied. This course will not only prepare students for the rigor of college, but will also prepare them to take the AP English Literature exam.

21st CENTURY RESEARCH AND TECHNICAL WRITING* 1237 - 11, 12 (1 Semester - .5 credit) (U)

Prerequisite: A grade of at least a "B" in English Survey 2b or Intermediate Writing or instructor's approval.

This course will offer students the chance to learn and practice the forms and purposes of writing in various technical, scientific, and any such field requiring research and reports. The course instructs college-bound and technical college-bound students on how to

locate, evaluate and manage research materials. Students will develop multiple skills in communication through the precise use of language. Students will conduct advanced research with which they will analyze and synthesize collected data to create and substantiate formal reports and papers in various formats including MLA, APA and grant templates. Students will complete two large research papers as well as a final project where they will either write a grant, proposal (investment or business plan), a user-end manual, or a product catalog. The course will stress clear and concise writing with an emphasis on rhetoric and audience analysis. Students who take this course should have questioning minds and the self-discipline necessary to work independently.

EXCEPTIONAL EDUCATION NEEDS

STUDY SKILLS 314/315 - 9, 10, 11, 12 (.5 elective credit)

This class is designed to support students in completing regular education classroom work in all subjects. Study and review skills are also reinforced. Students will be graded on regular education work completed daily, as well as study skills weekly work.

FAMILY & CONSUMER SCIENCES & HEALTH SCIENCES

Transcribed Credit Courses with
Nicolet Area Technical College
(*Nicolet course name is italicized after RHS course.*)

Transcribed Credit Courses with Nicolet Area Technical College. The Family & Consumer Sciences & Health Sciences Department has created agreements with Nicolet Area Technical College to offer Wisconsin Technical College credit along with high school credit in some courses. Students that take and complete the course at a required standard can receive both high school and Nicolet Technical College credit.

High School Class	High School Credit	Equals	Nicolet Class	Nicolet Credit
Medical Terminology	0.5	Equals	Medical Terminology	3
Foundation for Early Education	0.5	Equals	Foundation for Early Education	3

CHILD DEVELOPMENT 261- 9, 10, 11, 12 (1 Semester - .5 credit)
Recommended for anyone who wants to work with children or eventually become a parent. This class will cover the development of children - birth to age 2. Pregnancy, prenatal development, labor, and physical, intellectual, emotional, and social development will be covered. Other focuses will include caring for infants and how to find quality child care. Pregnancy and parenthood simulations as well as field trips will be some of the activities included in this course.

FOUNDATIONS OF EARLY CHILDHOOD EDUCATION 265

11, 12 (1 Semester - .5 credit)

Prerequisite: Child Development

(Foundations of Early Childhood Education)

Introduces the student to the early childhood profession. Course competencies include: integrate strategies that support diversity and anti-bias perspectives; investigate the history of early childhood education; summarize types of early childhood education settings; identify the components of a quality early childhood education program; summarize responsibilities of early childhood education professionals; and explore early childhood curriculum models. If the student is 17 during the offering of the course and with 10 additional hours of observation they will qualify for an Assistant Child Care Teacher Certificate. This certificate allows you to be employed in a child care setting at age 17.

CULINARY BASICS 1 254 - 9, 10, 11, 12 (1 Semester .5 credit)

Culinary Basics 1 is designed to provide the student with the nutrition information to make healthy choices in the selection and preparation of foods, the skills to manage time and energy, and the knowledge of various food preparation principles. Working as a team, students apply nutrition information to a lab setting that requires cooperation and communication. This course is a prerequisite to Culinary Basics 2. Fee.

CULINARY BASICS 2 257 - 9, 10, 11, 12 (1 Semester .5 credit)

Prerequisite: Culinary Basics 1

This course is designed to provide the student opportunities to plan, create, and serve appetizing and nutritious meals. Students participate in weekly labs with emphasis on management of food, time, resources and money. In addition to American cuisine, foreign foods are explored. Activities are designed to help students make wise consumer choices as well as investigate career possibilities. This course is a prerequisite to ProStart. Fee.

PROSTART 266 - 11, 12 (2 Periods, 1 Semester - 1 credit)

Prerequisite: Culinary Basics 2

ProStart, a two period, one semester course, builds on the skills learned in Culinary Basics 1 & 2. This course incorporates curriculum developed by the National Restaurant Association in conjunction with the National Restaurant Association Educational Foundation to educate students about a rapidly growing industry. In addition to food preparation, topics such as customer relations, cost accounting, food cost controls, and marketing, are covered. The ProStart class offers students an opportunity to explore exciting and rewarding careers in the hospitality industry such as executive chef, general manager and restaurant owner. Students can earn college credit at certain state and national culinary and hospitality programs by learning career and employability skills and passing the tests for the ProStart National Certification. Fee.

INTRODUCTION TO MEDICAL OCCUPATIONS 276

9, 10, 11, 12 (1 Semester - 5 credit)

Introduction to Medical Careers is designed for students interested in exploring career options in a health-related field. The course offers an overview of a wide range of health occupations from entry level to post graduate careers. Students will gain background knowledge in career opportunities, medical terminology, and the skills and education needed to be successful in a health career. Students will learn from community health care professionals. This course is a

prerequisite to the Medical Services Academy.

MEDICAL TERMINOLOGY 278 - 11, 12 (1 Semester - .5 Credit)

(Medical Terminology)

This is a college level transcribed class. Medical Terminology focuses on the component parts of medical semesters: prefixes, suffixes and root words. The student will practice formation, analysis and reconstruction of terms. Emphasis will be placed on spelling, definition and pronunciation. There will also be introduction to operative, diagnostic, therapeutic and symptomatic terminology of all body systems, as well as systemic and surgical terminology. Students who pass this course with an 80% or better will earn transcribed credit at any technical college in Wisconsin.

RELATIONSHIPS 260- 9, 10, 11, 12 (1 Semester - .5 credit)

This class is designed to help students build, maintain, and improve relationships with people, including peers, parents, teachers, and employers. Discussion topics include changes in their lives that affect them, self-esteem, values, decision-making and communication. Other topics will include consequences of decision making such as sexual behavior, alcohol and drug use, STD's, AIDS, date rape, abuse, suicide and handling and resolving conflict. Class experiences give students an opportunity to interact with each other and hear speakers on a variety of topics.

SERVICE LEARNING 249 - 11, 12 (Fall Semester-.50 credit;

Pass/Fail)

Service Learning is a class designed to develop leadership skills which students will then use to help freshmen and new students to the district have a successful transition to high school. Service Learning students become mentors to their homeroom students. Only 11th graders presently in Service Learning may select this course. Interested 10th grade students must follow these guidelines: 1.) self-nominate in the spring of their sophomore year, 2.) be chosen by a vote of their classmates, 3.) fill out an application form, 4.) complete an interview.

FOREIGN LANGUAGE

It is recommended that students complete at least two years of a language if a four-year college is a possibility after graduation.

UW-Madison and UW-Eau Claire both require a minimum of two years of a single foreign language, with a grade of at least a C, to apply. Students seeking admission to competitive universities and private schools should strongly consider four years of a foreign language.

GERMAN 1 a/b 200/201 - 9, 10, 11, 12

(2 Semesters - .5 credit per Semester)

German 1 a/b is designed to provide practice in all four basic language skills; listening, speaking, reading, and writing. Grammatical, vocabulary and cultural topics are included in classroom activities.

GERMAN 2 a/b 202/203- 10, 11, 12

(2 Semesters - .5 credit per Semester)

Prerequisite: German 1 a/b

German 2 a/b reinforces material taught in German 1 a/b and continues the development of new language skills. Vocabulary is increased and new tenses and verb forms are introduced.

GERMAN 3 a/b 204/205 - 11, 12 (2 Semesters - .5 credit per Semester)

Prerequisite: German 2 a/b

German 3 a/b reinforces material taught in German 1 a/b and 2 a/b and continues the development of more advanced language skills. By the end of German 3, students will have increased the content areas they can discuss.

GERMAN 4 a/b 239/240- 12 (2 Semesters- .5 credit per Semester)

Prerequisite: German 3 (U)

German 4 a/b is dedicated to the refinement and enrichment of the basic language skills taught in German 1 a/b , 2 a/b and 3 a/b . An increased emphasis will be put on speaking and comprehension while the class is primarily conducted in the target language.

SPANISH 1 a/b 216/217 - 9, 10, 11, 12

(2 Semesters - .5 credit per Semester)

Spanish 1 a/b is designed to provide practice in all four basic language skills: listening, speaking, reading and writing. Grammatical, vocabulary, and cultural topics are included in classroom activities.

SPANISH 2 a/b 218/219 - 10, 11, 12

(2 Semesters - .5 credit per Semester)

Prerequisite: Spanish 1 a/b

Spanish 2 a/b reinforces material taught in Spanish 1 a/b and continues the development of new language skills. Vocabulary is increased and new tenses and verb forms are introduced.

SPANISH 3 a/b 220/221 - 11, 12

(2 Semesters - .5 credit per Semester) Prerequisite: Spanish 2 a/b

Spanish 3 a/b reinforces material taught in Spanish 1 a/b and 2 a/b and continues the development of more advanced language skills. By the end of Spanish 3, students will have increased the content areas they can discuss.

SPANISH 4 a/b 235/236 - 12

(2 Semesters - .5 credit per Semester) (U)

Prerequisite: Spanish 3 a/b

Spanish 4 a/b is dedicated to the refinement and enrichment of the basic language skills taught in Spanish 1 a/b , 2 a/b and 3 a/b . An increased emphasis will be put on speaking, reading comprehension and writing while the class is primarily conducted in the target language.

MATHEMATICS

GRADUATION REQUIREMENTS:

2.0 credits of Mathematics which incorporate instruction in the properties, processes and symbols of arithmetic and elements of Algebra, Geometry and Statistics.

Students who receive credit for Algebra, Geometry or other math courses while in middle school must earn 2.0 additional math credits in grades 9-12.

COURSE SEQUENCE:

- Option 1: Algebra 1a/b, Geometry a/b
-or- Geometry a/b, Algebra 2a/b
- Option 2: Integrated Math 1a/1b
Integrated Math 2a/2b

Integrated Math 1, 2 and 3 are a series of math courses that are taught from an applied perspective. The content includes algebra, geometry and statistics and probability. Students who pass Integrated Math 1 a/b and Integrated Math 2 a/b will have completed their high school math graduation requirement. The Integrated Math series is appropriate for students who are not ready to benefit from the traditional, theoretical Algebra 1 course. Students who complete Integrated Math 1a/b & Integrated Math 2a/b and want to enter a four year college will take Integrated Math 3a/b as a transitional math course their junior year and Algebra 2a/b their senior year.

Students should prepare for the future now by including a well-planned mathematics curriculum in their high school education. Virtually all post-secondary choices require math. Whether students choose to enter the work force directly out of high school, complete an apprenticeship or military duty, attend a technical school, or enroll in a university program, a solid math background will positively affect their future. Students considering application to a competitive college should note that four credits of mathematics will make them a stronger candidate for admission. The more high school math a student has taken, the better prepared they will be in their post secondary education as well as their future profession.

GENERAL MATHEMATICS a/b 500/501 - 9, 10, 11, 12

(2 semesters - .5 credit per Semester)

Recommendation given by Math Department

This course offers a review of arithmetic and computational skills combined with applications and problem solving. It would be an elective for students who are deficient in basic skills when leaving 8th grade.

INTEGRATED MATH 1 a/b 524/525 - 9, 10, 11, 12

(2 Semesters - .5 credit per Semester)

Recommendation given by Math Department

Integrated Math 1 is the first two semesters of the Integrated Math Series that are taught from an applied perspective. Students who pass four consecutive semesters will have completed their high school math graduation requirement. The content includes algebra, geometry, statistics and probability. The Integrated Math series is appropriate for students who are not ready to benefit from the traditional, theoretical Algebra 1 course. Students who complete Integrated Math 1 a/b and Integrated Math 2 a/b and want to enter a four year college can take Integrated Math 3 a/b their junior year, which will prepare them for Algebra 2 their senior year.

ALGEBRA 1a/b 504/505 - 9, 10, 11, 12

(2 Semesters - .5 credit per Semester)

Recommendation given by Math Department

Algebra 1 a/b is a course that encompasses the Wisconsin State Standards for Mathematics. The course is designed for the student who intends to take geometry and may eventually pursue post secondary education. The student in Algebra 1 a/b should have mastered arithmetic skills. Topics include: sets and operations of real numbers, properties of these operations, polynomials, exponents, roots and radicals, 1st and 2nd degree equations and inequalities in one variable, functions and graphs, and systems of equations.

INTEGRATED MATH 2 a/b 526/527 - 10, 11, 12

(2 Semesters - .5 credit per Semester)

Prerequisite: Integrated Math 1a/b

Recommendation: "C" or better in Integrated Math 1 a/b

Integrated Math 2 a/b is the second two semesters of the Integrated Series that are taught from an applied perspective. Students who pass all four semesters will have completed their high school math graduation requirement. The content includes algebra, geometry, statistics and probability. The Integrated Math series is appropriate for students who are not ready to benefit from the traditional, theoretical Algebra 1 course. Students who complete Integrated Math 1 a/b and Integrated Math 2 a/b and want to enter a four year college can take Integrated Math 3 a/b their junior year, which will prepare them for Algebra 2 a/b their senior year.

INTEGRATED MATH 3 a/b 528/529- 11, 12

(2 Semesters - .5 credit per Semester)

Prerequisite: Integrated Math 2 a/b or Algebra 1 a/b and Geometry a/b

Recommendation: "C" or better in Integrated Math 2 a/b -OR- "B" or better Geometry a/b

This is the 3rd class in the Integrated Math series. Students who are considering a 4 year or 2 year post secondary school can take this class to help prepare for Algebra 2 a/b. The content includes algebra, geometry, statistics, probability and an introduction to Algebra 2 a/b. This class transitions students into a traditional classroom setting to help prepare for a post secondary education.

GEOMETRY a/b 506/507 - 9, 10, 11, 12

(2 Semesters - .5 credit per Semester) Required for college entrance

Prerequisite: Algebra 1 a/b

Recommendation: "C" or better in Algebra 1 a/b

Geometry a/b is the second course in the college preparatory mathematics sequence and strengthens the mathematical background of the technical school oriented student. The course objectives include developing an understanding of the nature of the mathematical system with a particular understanding of the basic structure of geometry, of three-dimensional concepts, of inductive and deductive reasoning in both mathematical and non-mathematical situations, of coordinate geometry and the relationships between algebra and geometry, and an appreciation of the need for clarity and precision of language.

ALGEBRA 2 a/b 511/512 - 9, 10, 11, 12

(2 Semesters - .5 credit per Semester) Required for college entrance

Prerequisite: Geometry a/b

Recommendation: "B" or better in Geometry a/b.

Algebra 2 a/b is the third course in the college preparatory mathematics sequence. It consists of a thorough study of algebra and an introduction to trigonometry. Emphasis on the structure of algebra is combined with systematic instruction in the techniques of algebra. Major concepts are: properties of the real number system, algebraic expressions, equations and inequalities, functions and graphs, polynomial and rational functions, exponential and logarithmic functions, matrices, sequences, series, and systems of equations. It is

PRECALCULUS a/b 520/521 - 10, 11, 12

(2 Semesters - .5 credit per Semester) (U)

Prerequisite: Algebra 2 a/b

Recommendation: "B" or better in Algebra 2 a/b

This course expands on previously learned algebraic processes and thoroughly covers the study of functions and trigonometry. It includes

the concepts of the infinite and continuous as part of introductory calculus, as well as the finite and iterative concepts of discrete mathematics. Specific topics include: properties of the real number system, algebraic expressions, equations and inequalities, functions and graphs, polynomial, rational, exponential, logarithmic, and all trigonometric functions and their inverses, solving triangles, trigonometric identities, sequences, series, probability, complex numbers, polar curves, and vectors.

CALCULUS AP a/b 515/516 - 10, 11, 12

(2 Semesters - .5 credit per Semester) (U) (AP)

Prerequisite: Precalculus a/b

Recommendation: "B" or better in Precalculus a/b

This course covers the curriculum content of the first semester of a college calculus course. The objectives as stated match the most current description published by the College Board, which administers the Advanced Placement Exam. Topics include: limits and continuity, derivatives, applications of derivatives, the definite integral, differential equations and mathematical modeling, and applications of definite integrals. The last 4 weeks preview second semester calculus topics such as integration by parts and partial fractions, indefinite integrals, and applications of integration including volume, density, work, force and pressure.

STATISTICS AP a/b 518/519 - 10, 11, 12

(2 Semesters-.5 credit per Semester) (U) (AP)

Prerequisite: Algebra 2 a/b

Recommendation: "B" or better in Algebra 2 a/b

This course provides an introduction to the study of probability and statistics. Topics address include the nature of statistics, techniques in sampling and collecting numerical information, and analysis of data to make meaningful decisions in science and research fields of study. Students may use this course to prepare for the AP Statistics exam.

MUSIC

CONCERT BAND a/b 602/603 - 9, 10, 11, 12

(2 Semesters - .5 credit per Semester)

Prerequisite: Prior band participation or director's consent.

Open to students in grades 9-12. It is expected that the students in this class have mastered the basic fundamentals of music. Students will have most, if not all, of their major scales memorized. This band will perform at all concert events, large group festival or clinic and an occasional tour. The Concert Band will be joined by the Wind Ensemble for all performances. Students will be financially responsible for a music lyre, flip folder and windows, as well as any damage to school-owned instruments. All incoming freshmen should register for Concert Band a/b rather than Wind Ensemble a/b, unless there are course conflicts. Students in grades 10-12 may register for either Concert a/b Band or Wind Ensemble a/b.

WIND ENSEMBLE a/b 650/651- 10, 11, 12

(2 Semesters - .5 credits per Semester)

Prerequisite: Concert Band or director's consent. Open to students in grades 10-12.

This ensemble performs at a higher level than that of the Concert Band a/b and therefore it is expected that the students in this class have mastered the basic fundamentals of music. Students will have most, if not all, of their major scales memorized. This band will perform at all concert events, large group festival or clinic and an occasional tour. The Wind Ensemble a/b will be joined by the Concert Band a/b for all

performances. Students will be financially responsible for a music lyre, flip folder and windows, as well as damage to school owned instruments. Students in grades 10-12 may register for either Concert Band a/b or Wind Ensemble a/b.

CONCERT CHORUS a/b 621/622 – 9, 10, 11, 12

(2 Semesters - .50 credit per Semester)

Concert Chorus a/b is open to any student interested in beginning or continuing vocal music participation.

This group meets daily. Class sessions are devoted to developing individual vocal techniques and studying and rehearsing music of all styles. The Concert Choir will perform at all concert events, large group festival or clinic and an occasional tour. Programs for community groups may also be scheduled. Any student may choose to participate as a soloist or as a member of an ensemble in the District Solo-Ensemble Festival. Students will be financially responsible for any damage to school owned choir uniforms/costumes.

SHOW CHOIR a/b 614/615 – 10, 11, 12

(2 Semesters - .50 credit per Semester)

Prerequisite: Permission of Instructor and 2 semesters of Concert Chorus.

Show Choir a/b is open to students in grades 10-12 by audition and the director's consent. This group meets daily. Class sessions are devoted to mastering vocal and dance techniques while performing music more in the "pop" style. The director may schedule extra rehearsals for choreography outside of school hours with advanced notice. The Show Choir will perform at all concert events, large group festival or clinic and an occasional tour. Programs for community groups may also be scheduled. Any student may choose to participate as a soloist or as a member of an ensemble in the District Solo-Ensemble Festival. Students will be financially responsible for any damage to school owned choir uniforms/costumes. Students must take both semesters.

PHYSICAL EDUCATION

All students must complete 1.5 credits of Physical Education instruction for graduation. Students earn these credits by taking 709 and 710 and one additional elective physical education course. Juniors and Seniors have the opportunity to choose physical education elective credits. Seniors may take two P.E. classes per year.

HEALTH 275 - 9, 10, 11, 12 (1 Semester - .5 credit)

Graduation Requirement: To graduate from Rhinelander High School students must successfully complete the equivalent of either one semester of health in grade 8 or one semester of health in grades 9 through 12.

Health education is the basic ingredient in a wellness lifestyle. This health education course is designed to help students develop positive skills for daily living and prepare for roles as adults. The course is divided into 10 inter-related topics including: personal health and fitness, mental and emotional health, social health and family life education, nutrition, substance use and abuse, prevention and control of disease, consumer and community health, safety and environmental health. Students who have met the graduation requirement in grades 7 or 8 may still elect health as an elective credit.

PHYSICAL EDUCATION 709 - 9 (1 Semester - .5 credit)

Freshman Physical Education class offers the student an opportunity to participate in a variety of team and individual sports, aquatics, fitness and lifetime/recreation activities.

Students will have the opportunity to explore and experience a wide

variety of activities, learn new skills and increase their knowledge of team strategy and concepts. Aquatics will be introduced, emphasizing water safety and stroke work. Some water games may also be introduced. This class will encourage students to find a personal fitness activity and continue to participate in that activity throughout the year.

PHYSICAL EDUCATION 710 - 10 (1 Semester - .5 credit)

Sophomore Physical Education class offers the student an opportunity to participate in a variety of activities with an emphasis on weight training, aerobic fitness, badminton, volleyball, American Red Cross; Guard Start and water games.

Students will continue to learn more advanced team strategies, team rules, individual and team skills, knowledge of lifts and safety in the weight room and swimming pool. Other activities may be included at the discretion of the instructor, interest of students, and availability of facilities. This class encourages students to participate in physical activity throughout the year, choosing some activity of personal interest.

INDOOR ACTIVITIES 728 - 11, 12 (1 Semester - .5 credit)

Prerequisites: Successful completion of 1.0 credits of physical education.

The Indoor Activities class offers the student an opportunity to enjoy physical activity through a variety of activities that will include: water polo, badminton, volleyball, basketball and strength training. Other activities may be included based on the availability of facilities. Class emphasis will be on increasing individual and team skills and encouraging physical fitness through sport. Strength training will be scheduled throughout the semester to help increase overall muscular strength and endurance, and to increase the student's knowledge of lifts.

MULTI-CULTURAL/INTERNATIONAL ACTIVITIES 739 – 11, 12 (1 Semester - .5 credit)

Prerequisites: Successful completion of 1.0 credits of physical education.

The Multi-Cultural/International Activities class offers the student an opportunity to study, learn and participate in multi-cultural activities from around the world. This class may include such games and activities as rugby, lacrosse, cricket, bukka, squash, tennis, bocce ball, team handball and field hockey. Students will be required to wear safety equipment for some activities. Other International Activities may be included based on the availability of equipment and facilities. Class emphasis will be on participating in new games, learning about new cultures and gaining an appreciation of the diverse world that surrounds us.

LIFEGUARD TRAINING 735 – 11, 12 (1 Semester - .5 credit)

Prerequisites: Completion of Guard Start during Sophomore PE and the successful completion of 1.0 credits of physical education. Lifeguard Training is an advanced physical education class, which offers the student an opportunity to become a certified lifeguard. This class also certifies the student in Cardiopulmonary Resuscitation for the Professional Rescuer, AED and in Community First Aid and Safety, all of which are required for lifeguard certification. All students must be able to pass the swimming pretest which requires students to swim 300 yards non-stop in 12 minutes or less (the 300 will include 100 yards of breaststroke, and 200 yard front crawl stroke), recover a diving brick from the deepest part of the pool. In addition, an American Red Cross fee must be paid. This fee is for the purchase of manuals, a pocket mask, a whistle and lanyard.

OUTDOOR ACTIVITIES 725- 11, 12 (1 Semester - .5 credit)

Prerequisites: Successful completion of 1.0 credits of physical education.

The Outdoor Activities class offers the student an opportunity to enjoy physical activity through a variety of outdoor and indoor activities that may include: Football, speedball, soccer, tennis, volleyball, water polo, golf, slow pitch softball, broomball, ice skating, snow shoeing, cross county skiing and a variety of winter games and activities. Other activities may be included based on the availability of equipment, facilities and weather. Class emphasis will be on increasing individual and team skills, exploring a variety of game strategies, and encouraging physical fitness through sport. Students will be required to dress appropriately for the cold weather and may be charge a fee for equipment rental and transportation. A downhill skiing field trip may also be included, charging a fee for equipment rental, transportation and lift ticket. Fee.

OUTDOOR ADVENTURE 730- 11,12 (1 Semester - .5 credit)

Prerequisites: Successful completion of 1.0 credit of physical education.

The Outdoor Adventure Course will offer students an opportunity to study, learn and participate in a variety of lifetime outdoor recreational activities geared towards living in Northern Wisconsin. This class may include hiking, biking, CAVOC ropes' course, camping, canoeing, kayaking, outdoor survival skills and orienting. Emphasis will be placed on experiencing these units in a safe and positive environment: both as an individual and with peers. Fee.

TOTAL FITNESS TRAINING 793 11,12 (1 Semester - .50 credit)

Prerequisites: Successful completion of 1.0 credit of physical education.

Total Fitness Training provides the student with an extended opportunity for practical physical application of the fundamentals of weight training and an opportunity to become physically fit through a variety of aerobic activities. This class will (cognitively) reinforce and expand the student's knowledge base of safe, efficient, and effective techniques and strategies of weight training and aerobic conditioning, (physically), improve the student's physical appearance, develop increased potential for physical performance, and decrease the likelihood of injury, and (affectively) create confidence and aspiration, and establish positive lifelong habits that will result in the student living a longer, happier, and more productive life. All of these goals will be reinforced through confidential pre and post testing of body weight, body composition, and upper body and lower body strength levels; some personalization may be used or needed for each student.

SCIENCE

Transcripted Credit Courses with Nicolet Area Technical College (*Nicolet course name is italicized after RHS course.*)

The Science Department has created an agreement with Nicolet Area Technical College to offer Wisconsin Technical College credit along with high school credit in some courses. Students that take and complete the course at a required standard can receive both high school and Nicolet Area Technical College credit.

High School Class	High School Credit	Equals	Nicolet Class	Nicolet Credit
Human Anatomy & Physiology b	0.5	Equals	Human Anatomy & Physiology	4

GRADUATION REQUIREMENTS:

2.5 credits of science which incorporates instruction in the biological sciences and physical sciences.

*Students who are considering four-year colleges must take a minimum of three credits of laboratory science. * = Laboratory science classes*

POSSIBLE COURSE SEQUENCE:

A. For grades 9, 10 and 11, the following course sequence options are recommended for students who intend to enroll in a four year university after high school: Physical Science, Biology, and Chemistry. It is required that students complete Biology before taking Chemistry.

B. For grades 9 and 10, the following course sequence is recommended for students who have earned C or less in science classes in the middle grades: Grade 9 - Science 9 a/b, Grade 10- Science 10 a/b. Students should be aware that Science 9 a/b & 10 a/b may not meet 4 year college or university admission requirements.

SCIENCE 9 a/b PHYSICAL EMPHASIS* 830/831 - 9, 10, 11, 12
(2 Semesters - .5 credit per Semester)

Recommendation by Science Department

If student failed Physical Science, student may choose to take Science 9 a/b -OR- repeat Physical Science

Students who pass this course and Science 10 Biology Emphasis will have met the state graduation requirements for coursework in physical science and biology and covered the state standards for grades 9 and 10. This course and the Science 10 a/b Biology Emphasis course have been designed to be appropriate for students who are not yet ready to benefit from the traditional, theoretical science courses. Fee.

SCIENCE 10 a/b BIOLOGICAL EMPHASIS* 832/833 - 10, 11, 12
(2 Semesters - .5 credit per Semester)

Prerequisite: Science 9 a/b or passed Physical Science with less than a 'C'

Students who pass this course and Science 9 Physical Science Emphasis will have met the state graduation requirements for coursework in physical science and biology and covered the state standards for grades 9 and 10. This course and the Science 9 a/b Physical Science Emphasis course have been designed to be appropriate for students who are not yet ready to benefit from the traditional, theoretical science courses. Fee.

EARTH SCIENCE 801– 9, 10, 11, 12 (1 Semester - .5 credit)

This course looks at the origin of the earth and forces in motion. The course also deals with the variety of energy forms, weather, climate, light and sound, astronomy, as well as the human impact on earth. Fee.

ENVIRONMENTAL SCIENCE* 805 – 9, 10, 11, 12

(1 Semester - .5 credit)

Environmental science is an interdisciplinary study that integrates information and ideas from the natural sciences and the social sciences to study the relationships between organisms and the environment.” Environmental science includes teaching skills for critical analysis of evidence (data). Students will use Aldo Leopold’s A Sand County Almanac along with other resources to relate their own experiences with nature to conservation of our World, Country, State and Local natural resources for generations to come. Fee.

PHYSICAL SCIENCE* 800 – 9, 10, 11, 12 (1 Semester - .5 credit)

This course is required for graduation. This course offers an introduction to the physical sciences of chemistry and Physics. From the chemistry standpoint, the student learns about the atom and its composition, the bonds that hold compounds together and the types of reactions that chemicals can undergo. From the physics standpoint, students are introduced to motion and force. Fee.

BIOLOGY 1* 804 - 9, 10, 11, 12 (1 Semester - .5 credit)

This course is required for graduation. (Unless you meet the requirement by taking Science 9 & 10.) It is designed as an introductory course for the life sciences. The course involves topics including scientific method, tools of science, cell structure and function, cell energy, the molecular basis of heredity, biological evolution, and classification. Fee.

BIOLOGY 2* 828 – 9, 10, 11, 12 (1 Semester - .5 credit)

Prerequisite: Biology 1

This course is required for graduation. (Unless you meet the requirement by taking Science 9 and 10.) Biology 2 goes into more depth in content and is also involved in more in-depth experimentation. It involves the study of plants and animals and places more emphasis on the human body. Fee.

CHEMISTRY a/b* 810/811 - 10, 11, 12 (2 Semesters - 1 credit)

Prerequisite: Physical Science and Algebra 1 with grades of “C” or better or consent of instructor.

Chemistry is the study of the composition of matter and matter’s properties. The course begins with the tools used by the chemist. Further study involves the variety of reactions that matter undergoes. It then looks at the structure of the atom and the theoretical relationship that develops based on this structure. It finishes off with the bonding of matter, which leads to the different types of compounds. It attempts to apply the mathematical concepts that were learned in algebra. Fee

HUMAN ANATOMY AND PHYSIOLOGY a* 861 - 11, 12

(1 Semester - .5 credit)

Prerequisite: Biology 1 and 2 with a B or better, or teacher permission is required. Highly Recommended: Chemistry a/b.

Students will be studying cells, tissues, skin, skeletal, muscular, nervous, and endocrine systems. Students will also construct models, carry out experiments and dissections related to body systems. 1st and 2nd Semester Anatomy and Physiology must both be taken to get Nicolet transcribed credit. Fee.

HUMAN ANATOMY AND PHYSIOLOGY b* 862 - 11, 12

(1 Semester - .5 credit)

(Human Anatomy and Physiology)

Prerequisite: Human Anatomy and Physiology a.

Students will be studying the cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems. Students will also construct models, carry out experiments and dissections related to body systems. 1st and 2nd Semester Anatomy and Physiology must both be taken to get Nicolet transcript credit. Fee.

AP BIOLOGY a/b (Molecular Approach)* 824/825 - 11, 12

(2 Semesters - .5 credit per Semester) (U) (AP)

Prerequisite: Biology 2 & General Chemistry a/b with grades of “B” or better or consent of instructor.

AP Biology a/b continues the study of the basic principles and concepts addressed in Biology 2. Semester 1 stresses the cell and its processes at the molecular level. Semester 2 stresses genetics, evolution, and the study of plant and animal systems. The course will assist students preparing to take the AP Biology test. Passing the AP exam allows the student to receive college credit depending on score on exam. Fee.

AP CHEMISTRY a/b* 822/823 - 11, 12

(2 Semesters - .5 credit per Semester) (U) (AP)

Prerequisite: Chemistry a/b with a grade of “B” or better or consent of instructor.

The content of this course takes over where the general chemistry leaves off. Kinetics, Solutions, Gas Laws, Chemical Equilibrium, Electrochemistry, Thermochemistry and Nuclear chemistry are covered. It is the second year of a two-year sequence equivalent to a full year of college chemistry and gives the student enough material to enable them to take the AP exam given in the spring. Passing the AP exam allows the student to receive college credit depending on score of exam. Fee.

INTRODUCTION TO ANALYTICAL CHEMISTRY* 812-11, 12

(1 Semester - .5 credit) (U)

Prerequisite: AP Chemistry a/b with a grade of “B” or better or consent of instructor.

Analytical chemistry is made up of qualitative analysis and quantitative analysis. Both analyses stress the importance of careful laboratory procedures. Qualitative analysis involves the analysis of metallic and nonmetallic ions present in matter and Quantitative analysis determines the quantity of material present in a sample to be analyzed. Instrumentation is an important part of the course. Recommended for those students going to college and who plan to major in some sort of science. This course will be offered every other year, being taught again during 2012-13. Fee.

INTRODUCTION TO ORGANIC CHEMISTRY* 813 – 11, 12

(1 Semester- .5 credit) (U)

Prerequisite: Chemistry a/b with a grade of “B” or better or consent of instructor.

AP Chemistry a/b highly recommended. Organic chemistry involves the study of the chemistry of carbon and the compounds related to carbon. Course content involves the determination and nomenclature of organic compounds, reaction mechanisms and to utilize the lab as a means of studying the reactions that eventually lead to the synthesis of many organic compounds. Since organic chemistry impinges on our daily lives, more than any other science, it is a science that places great emphasis on people and their environment. The course is recommended for those people who plan on going into medicine, veterinary medicine, pharmacy and any other allied health field. This course will be offered every other year, being taught again during 2013-2014. Fee.

PHYSICS a/b* 816/817 - 11, 12

(2 Semesters - .5 credit per semester) (U)

Prerequisite: Algebra 2 a/b with a grade of “B” or better or consent of instructor, Physical Science.

Physics a/b is the study of the interactions of matter and energy. Students are introduced to fundamental concepts in the areas of mechanics (which will include one dimensional and two dimensional motion, forces, momentum, work and energy), and optics (light, and sound). The acquisition of information is by using the senses and instrumentation. Student investigations emphasize accurate observations, collection of data, analysis of data, and the safe manipulation of laboratory apparatus and materials. Applications of physics to engineering, medicine, biology, and many other fields – are interesting and can be understood by someone who understands the underlying principles of physics. Fee.

VERTEBRATE BIOLOGY 1* 821 – 11, 12 (1 Semester - .5 credit) (U)

Prerequisite: Biology 2 with a grade of “B” or better or consent of instructor.

Vertebrate biology is a course designed for students desiring a deeper understanding of animals with backbones and their unique position in the animal world. The course involves a comparative study of vertebrate types and how vertebrates are adapted to the wide variety of environments on earth. This course will include both lecture sessions and laboratory dissections. Both oral and written exams are given to measure comprehension and progress. This includes an in-depth dissection of the dogfish shark. Fee.

VERTEBRATE BIOLOGY 2* 826 - 11, 12 (1 Semester - .5 credit) (U)

Prerequisite: Vertebrate Biology 1

Vertebrate Biology 2 is a continuation of Vertebrate Biology 1. Recommended for any student planning on entering an allied health field such as medicine, veterinary medicine, or zoology. The areas of study in the course would be mineralized tissues, muscles, nervous system, respiratory system and the digestive system. Oral and written exams are given to measure comprehension and progress. This includes an in-depth dissection of the fetal pig. Fee.

SOCIAL STUDIES

GRADUATION REQUIREMENTS:

3.5 credits of Social Studies are required for graduation.

This includes 1.0 credit of Global Studies a/b or Accelerated Global Studies a/b in 9th grade; 1.0 credit of U.S. History a/b in 10th grade -OR- 1.0 credit of AP US History a/b in 11th or 12th grade.

GLOBAL STUDIES a/b 928/929 - 9

(2 Semesters - .5 credit per Semester)

Global Studies a/b explores the history and culture of various world regions, the political and economic systems in place, and the roles of these regions in world affairs. This course also familiarizes students with the locations, landforms, climates, and natural resources of each of the world's major geographic regions.

ACCELERATED GLOBAL STUDIES a/b 941/942 - 9

(2 Semesters - .5 credit per Semester)

Accelerated Global Studies a/b is offered to those students who seek additional academic challenges and wish to prepare for a more rigorous course of study within the social studies curriculum. This course will offer an in-depth study of the locations, landforms, climate, and natural resources of each of the world's major geographic regions. Students will also make a thorough examination of the history and culture of each region with an emphasis on understanding the major issues of today. An emphasis on critical thinking skills and writing will be employed in this class. This course is highly recommended for those students looking to continue on with the AP and value added classes offered within the social studies curriculum.

US HISTORY SURVEY a/b 904/905 – 10, 11, 12

(2 Semesters - .5 credit per Semester)

U.S. History Survey a/b is a required for graduation. It is strongly recommend to choose as a 10th grader. This course studies the development of the democratic process from the colonial period to present. Political, social, economic, geographic, and cultural perspectives are examined.

COMPARATIVE RELIGIONS 934 – 10, 11, 12 (1 Semester – .5 credit)

This course will survey the major religions of the world, with emphasis on developing the student's personal understanding and acceptance. Students will analyze and compare the origins of each faith, prophets and founders, rites of birth and death, and beliefs about the afterlife, nature and deities. Major religious festivals and venerated art, music, and literature will also be examined.

CONTEMPORARY GLOBAL ISSUES 938 – 11, 12

(1 Semester – .5 credit)

Contemporary Global Issues focuses on the United States and its relationship with the rest of the world. Though time will be spent on the history of global interaction, special emphasis will be given to current international issues and global interdependence. Potential topics include a comparison of political and economic systems, the United Nations, world trade, environmental issues, human rights, and global conflict and resolution. This class will be research and discussion based.

DEMOCRACY 910 - 11, 12 (1 Semester - .5 credit)

In this class, students are introduced to the framework of American government and the decision-making process. This process is applied to current social, economic, and political concerns such as poverty, sexism, crime, pollution, budget and trade deficits, and world affairs.

ECONOMICS 914 - 11, 12 (1 Semester - .5 credit)

Economics expands upon the fundamental economic concepts introduced in Global Studies a/b and US History a/b. Students are introduced to basic economic principles and alternative economic systems. They learn about business organizations, the labor market, banking and finance, international trade, and the growing interdependence of the global economy. The need for government intervention in a free enterprise system is explored and the merits of various economic policy alternatives are debated.

PSYCHOLOGY 920 - 11, 12 (1 Semester - .5 credit)

Everyday behavior is far more complex and interesting than most people imagine. In this course, students may learn to answer some of the questions they have about themselves and other people. The theories of leading psychologists are discussed in conjunction with units on learning and cognitive processes, the working of mind and body, life span, personality and individuality, and adjustment and breakdown of human relationships.

SOCIOLOGY 921 - 11, 12 (1 Semester - .5 credit)

Sociology introduces the student to the methods used by specialists in the field to solve social problems. The course involves the study of social institutions, their traditions, purposes, and complexities. Units include heredity and environment, social behavior, culture, social relationships, racial dynamics, and mass communication. Current periodicals and films are source materials.

WISCONSIN STUDIES 913 - 11, 12 (1 Semester - .5 credit)

Wisconsin Studies expands upon the major themes presented in Global Studies. The course deals with Wisconsin's climates, natural resources, soils, topography, agriculture, and origins of population. It is a social studies elective available to juniors and seniors who are interested in learning more about our state.

AP US HISTORY a 907 - 11, 12 (1 Semester - .50 credit per semester) (U) (AP)

Prerequisite: Global Studies a/b

AP US History a focuses on the political, social, and economic, and cultural development of our nation, from the colonial period through the Civil War and Reconstruction. The course examines the major events of this time period and the contributions of various ethnic groups. It offers students the opportunity to investigate, discuss, and interpret the important concepts of American history in greater depth than is done in the U.S. History Survey a/b course. AP US History a/b are designed to prepare students for the AP US History exam.

AP US HISTORY b 919 - 11, 12

(1 Semester - .5 credit per Semester) (U) (AP)

Prerequisite: Global Studies a/b

AP US History b is a continuation of AP US History a, with primary emphasis on the events of the twentieth century. It includes a study of the Industrial Age and the roots of Progressivism, the rise of the United States to world power, world war, and international relations in

the post-war era. Civil rights issues, environmental concerns, domestic and foreign policy alternatives are discussed. AP US History a/b are designed to prepare students for the AP US History exam.

AP EUROPEAN HISTORY a 936 - 10, 11, 12 (1 Semester - .5 credit) (U) (AP)

Prerequisite: Global Studies a/b

This college-level course offers an in-depth study of the development and influence of European history in the modern era. Topics will include the Renaissance, the Reformation and Counter Reformation, religious wars of Europe, state building, absolutism, science and the Enlightenment, and the French Revolution. In order to prepare students to take the AP exam, each period studied will address the themes of intellectual and cultural history, political and diplomatic history, and social and economic history. Units will also draw from a list of primary and secondary sources to supplement the textbook. Students will also be introduced to the process of historical analysis writing. AP European History a and AP European History b prepares students for the AP exam in European History.

AP EUROPEAN HISTORY b 937 - 10, 11, 12 (1 Semester - .5 credit) (U) (AP)

Prerequisite: AP European History a

AP European History b is an in-depth study of the development and influence of European history from 1814 to the present. Taught to AP standards and performance levels, topics of study include: the Industrial Revolution, Reaction and Revolution in the early 19th century, an Age of State Building and Crisis in Europe, Imperialism, World War I and the Russian Revolution, A Search for Stability and World War II, the Cold War Era, The Collapse of the USSR and Global Challenges. AP European History b will continue addressing the six themes studied in AP European History a. Students will practice historical analysis writing in preparation for the AP European History exam. AP European History a and AP European History b prepares students for the AP exam in European History.

AP US GOVERNMENT AND POLITICS 924 - 11, 12 (1 Semester - .5 credit) (U)(AP)

Prerequisite: Global Studies a/b

AP US Government and Politics focuses on the rights and responsibilities of citizenship in a democratic society. Students will explore the operation of government at the federal, state, and local levels. They will learn about the function of the legislative, executive, and judicial branches of government, the role of special interest groups, political party organization, and the importance of public opinion. This course is designed to prepare students for the AP exam in US Government and Politics .

GREEK AND ROMAN HISTORY 915 - 11, 12 (1 Semester - .5 credit) (U)

Greek and Roman History is a study of the "classic" ancient civilizations. Emphasis is placed on the historical transition of power through Egypt, the Near East, classical Greece, and Rome. The purpose of this course is to study the foundations of western civilization and relate them to the modern world. Although mythology may be addressed, this is not a mythology class.

TECHNOLOGY, ENGINEERING AND MANUFACTURING

Transcripted Credit Courses with
Nicolet Area Technical College
(*Nicolet course name is italicized after RHS course.*)

The Technology, Engineering and Manufacturing Department has created agreements with Nicolet Technical College to offer Wisconsin Technical College credit along with high school credit in some courses. Students that take and complete the course at a required standard can receive both high school and Nicolet Technical College credit.

High School Class	High School Credit	Equals	Nicolet Class	Credit
Welding Technology	.5	Equals	Shielded Metal Arc Welding	3
Automotive Systems 1	.5	Equals	Automotive Service Orientation	3
Blue Print Reading & Construction Estimating	1	Equals	Blue Print Reading	3
			Construction Estimating	2
Total	2	Equals	Total	11

ENGINEERING MATERIALS 400 - 9, 10, 11, 12
(1 Semester - .5 credit)

This is an exploratory course designed to familiarize the student with the proper procedures in the operation, care and safe usage of lab equipment along with an introduction to manufacturing equipment in wood technology and metal technology. The use of wood, plastic, metals, and other materials is introduced to help students understand technology's role in preparing a product. This course is recommended for freshmen and sophomores so that advanced courses will be open to them in the junior and senior year. Fee.

ARCHITECTURAL CAD DESIGN 1 429 - 9, 10, 11, 12
(1 Semester - .5 credit)

This course is designed to allow students to explore the design and layout of residential structures, as well as the creation and use of CAD drawings in home design and construction. Drawings and related projects are assigned in area planning for homes, cost analysis, floor plan design, foundations, roof styles, section views, elevations, perspective renderings, and land descriptions. Related career opportunities are also explored. The basics of computer-aided Drafting (CAD) will be reinforced in this class using the Chief Architect software packages. Fee.

ARCHITECTURAL CAD DESIGN 2 430 - 9, 10, 11, 12
(1 Semester - .5 credit)

Prerequisite: Architectural CAD Design 1

This course is designed to allow the student to learn about more advanced architectural design as well as residential building technology. CAD drawing subjects will include building planning, floor plan design, pictorial drawings, sectional plans, framing plans, electrical plans, climate control systems, and basic plumbing diagrams. Alternate energy sources for housing are explored and evaluated. Architectural design problems will be created, modeled, analyzed and communicated using CAD software, Chief Architect. Complete sets of drawings and plans will be assembled into an electronic portfolio and presented to the class. Course also includes units on careers in architecture as well as frequent field trips to Residential Construction's project house to view the application of architectural design elements to an actual residential structure. Fee.

ARCHITECTURAL CAD DESIGN 3 431- 11, 12
(1 Semester - .5 credit)

Prerequisites: Architectural CAD Design 2

It is recommended this course be taken in 12th grade while taking Residential Construction.

Students will design, model and develop a complete set of plans for a residential structure using Chief Architect. Students will then complete a physical 3-D scale model using balsa wood, foam-core board, and other materials, and present their entire project to a group of their peers. Course also includes units on careers in architecture as well as frequent field trips to Residential Construction's project house to view the application of architectural design elements to an actual residential structure. Fee.

AUTOMOTIVE SYSTEMS 1 418 - 10, 11, 12 (1 Semester - .5 credit)

Prerequisites: Power Mechanics

(Automotive Service Orientation)

This is a consumer-oriented course designed to teach the basic concepts of automotive technology. In this course, the student will be exposed to basic concepts of design, service, maintenance and repair of automobiles with a focus on entry level service operations and procedures. This course will provide a foundation for continued study of automotive technology. Students are asked to have a valid driver's license, proof of insurance, and a vehicle for use during lab activities. Transcripted Credit Course equals 3 credits in Automotive Service Orientation at Nicolet Technical College.

AUTOMOTIVE SYSTEMS 2 447 - 11, 12 (1 Semesters - .50 credit per semester) *Prerequisite: Automotive Systems 1*

This is an intermediate level course designed to provide a more in-depth look at the concepts and technologies covered in Automotive Systems 1. In this course, the student will be exposed to intermediate level concepts of design, service, maintenance and repair of automobiles with a focus on unit diagnosis, unit repair, service operations and procedures. Students are required to have a valid driver's license, proof of insurance and a vehicle for use during lab activities.

BLUE PRINT READING & CONSTRUCTION ESTIMATING

420/421 - 11, 12 (2 Semesters - 1.0 credit)

(Blue Print Reading & Construction Estimating)

This course will begin with students interpreting blueprints for trade information, drawing sketches to convey ideas and utilizing drawing software to develop and prepare a set of residential building plans. In the Construction Estimating portion, students will explore techniques for standard construction estimating and bidding procedures from the take-off to bid, covering the areas of excavation, concrete, wood, masonry, carpentry, alteration work, mechanical work, electrical work, and general conditions. This is a transcribed 3 credit course in Blue Print Reading and also a transcribed 2 credit course in Construction Estimating.

CONSUMER AUTO 422- 11, 12 (1 Semester - .5 credit)

Only students who have not had any Power Mechanics or Automotive Systems courses.

A comprehensive consumer oriented class for students who want to learn basic skills and information related to automobiles. Basic maintenance is emphasized. The class is graded approximately 50% lab and 50% classroom. It is recommended that students have a car to work on and a valid driver's license. Fee.

DIGITAL ELECTRONICS 434- 10, 11, 12 (1 Semester - .50 credit)

Prerequisite: Introduction to Electronics

This course will provide students with an opportunity to study binary code, gates and theories used in electronic control systems and basic operations of a microprocessor. Students will build and work with circuits to reinforce learning in the area of logic circuits, robotics, flip-flops, counters, and control circuits. Fee.

DIGITAL PHOTOGRAPHY 439 - 9, 10, 11, 12 (1 Semester- .50 credit)

This course, designed for the student who has no background in photography, provides beginning photographers with the necessary skills, techniques, and knowledge of photography in order to creatively express their own ideas. Students will learn about care and basic operation of digital cameras, the basics of photographic composition and lighting, the basics of preparing and using a digital darkroom, as well as basic digital video production.

INTRODUCTION TO ELECTRONICS 432 - 9, 10, 11, 12

(1 Semester - .5 credit)

This course is designed to give students a good foundation in the basic principles of electronics. Students will study electron behavior in direct current (DC) and alternating current (AC) circuits. Students will have the opportunity to build and experiment with many interesting circuits using components such as resistors, capacitors, transistors, diodes, integrated circuits, etc. Students will also be able to construct at least one electronic project of their choice to keep.

LIGHT CONSTRUCTION METHODS 405 - 11

(1 Semester - .5 credit)

This course provides an opportunity for students to learn and apply the basic knowledge and skills of the wide and varied field of the building trades industry. The course will give the student the opportunity to do actual construction work as well as learn what experienced building trades people do. Students will be able to apply their knowledge and skills by constructing small buildings, such as tool sheds, play houses, etc. (50% classroom and 50% lab work.) Fee.

MACHINE TOOL TECHNOLOGY 1 409 - 10, 11, 12

(1 Semester - .5 credit)

Prerequisite: Engineering Materials

Students will develop skill and knowledge in the operation of the lathe, milling machines, surface grinder, measuring instruments, and blue print reading. Fee.

MACHINE TOOL TECHNOLOGY 2 410 - 10, 11, 12

(1 Semester - .5 credit)

Prerequisite: Machine Tool Tech 1

This course will allow students to work with advanced machine and tool processes. Advanced lathe and milling tool operations. Students will design and complete advanced machine projects. Fee.

MECHANICAL CAD DESIGN 426 - 9, 10, 11, 12

(1 Semester - .5 credit)

This course is designed to acquaint the student with Mechanical drafting principles and techniques. This course will allow students to acquire skills and knowledge in sketching, proper computer usage, multi-view drawings, dimensioning, section views, pictorials and drawings, and manufacturing processes. The basics of Computer-Aided Drafting (CAD) will be introduced to students in this class. Drafting related career opportunities are also explored. Fee.

METAL PROCESSES 408 - 9, 10, 11, 12 (1 Semester - .5 credit)

Prerequisite: Engineering Materials

This course is designed for the student to develop an interest in the metal working field, exploring areas of sawing, filing, bending and decorating. Metal processes including fabrication, fitting and joining will be covered. Fee.

POWER MECHANICS 416 - 9, 10, 11, 12 (1 Semester - .5 credit)

Power Mechanics 1 is an introductory course in the small engines and auto mechanics area. It involves an introduction to the principles of operation of four stroke cycle engines, with emphasis on basic systems and parts. The students will need an aluminum frame 4-stroke engine. A Briggs and Stratton lawn mower engine, less than 5 h.p. is preferred, which will be rebuilt during the class. Students will be required to provide rebuild parts as needed. Fee.

RESIDENTIAL CONSTRUCTION a/b 406/407- 12

(2 Semesters - 1.0 credit per semester)

Prerequisite: Light Construction Methods, Grade of "B" or better

Students must take this class for both semesters. Students admitted to this program by application and selection process and by instructor approval only. See Residential Construction instructor for application after successful completion of Light Construction Methods (Grade of B or better). Residential Construction a/b is designed for seniors who have expressed an interest in and an aptitude for entry into the many fields of the building trades/construction industry. The course will introduce the student to the many skills and potential careers associated with residential home construction. Each year students will be constructing an on-site residential structure for someone from the community. Students will be required to pay for safety shoes and other required supplies.

WELDING TECHNOLOGY 412 - 10, 11, 12

(1 Semester - .5 credit)

Prerequisite: Engineering Materials

(Shielded Metal Arc Welding)

This is an introductory welding course that will help the student become skillful in doing AC-DC arc, TIG, MIG, plasma arc cutting and gas welding. The student will learn to control rod feed, weld simple joints, and weld metals. Transcribed Credit Course equals 3 credits in Shielded Metal Arc Welding at Nicolet Area Technical College. Fee.

WOODS TECHNOLOGY 1 401 - 9, 10, 11, 12

(1 Semester - .5 credit)

Prerequisite: Engineering Materials

This introductory level course applies modern technology to the efficient processing of our important renewable resource, wood. Students will explore careers, and examine new techniques and methods, while safely constructing a project. Fee.

WOODS TECHNOLOGY 2 402 - 10, 11, 12

(1 Semester - .5 credit)

Prerequisite: Woods Technology 1

This intermediate level course is designed to further enhance the level of skill development in Woods Technology 1. Students will concentrate on developing safe work habits focusing primarily on portable and stationary power equipment while constructing an intermediate-level woods project. Fee.

WOODS TECHNOLOGY (ADVANCED) 403 - 11, 12

(1 Semester - .5 credit)

Prerequisite: Woods Technology 2

This advanced course will challenge the student in the various areas of wood technology with specific emphasis on cabinet and furniture making. The student will design and produce a cabinet or furniture item using the various methods of construction. Students will have three options to choose from and must understand this course will require a substantial material cost in excess of \$80.

NONDISCRIMINATION POLICY

The Rhinelander School District does not discriminate on the basis of sex, race, national origin, ancestry, creed, religion, pregnancy, marital or parental status, sexual orientation, or physical, mental, emotional, or learning disability or in its educational programs or activities. Federal law prohibits discrimination in employment on the basis of age, race, color, national origin, sex, religion, or disability.

