



ROSEVILLE HIGH SCHOOL



COURSE CATALOG

2018-2019

INTRODUCTION

This booklet has been prepared by the staff to be used by you and your parents in the selection of the courses you will take next year.

READ

this booklet carefully.

SELECT

your courses wisely. They will provide you with many future opportunities. You are encouraged to take courses in sequence since many fundamental skills are introduced in the basic courses. Your selections determine the schedule you will have next year.

DISCUSS

your course interests with your counselor, teachers, and parents. Ask questions and make certain your selections meet your needs.

Finally, once you have determined your schedule, do your best to put forth the time and effort which will guarantee a successful year.

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ROSEVILLE HIGH SCHOOL

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Counselor - H thru O.....	Kelly O'Callaghan.....	445-5557
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TABLE OF CONTENTS

INTRODUCTION	I
BOARD OF EDUCATION.....	II
NON-DISCRIMINATION POLICY	IV
GRADUATION REQUIREMENTS	V
COMMUNITY SERVICE	IX
ONLINE EXPERIENCE	IX
DUAL ENROLLMENT.....	IX
EARLY COLLEGE OF MACOMB PROGRAM	X
CRITERIA FOR SCHEDULING.....	X
SUMMER SCHOOL/ADULT EDUCATION/CREDIT RECOVERY AND ON-LINE CREDITS	X
TESTING OUT.....	XI
SECONDARY GRADING FOR GRADES 9-12.....	XI
HONOR POINT SYSTEM.....	XII
GRADE LEVEL STATUS:	XII

COURSES

APPLIED TECHNOLOGY DEPARTMENT.....	1
BUSINESS DEPARTMENT	7
COMMUNICATION COURSES	12
ENGLISH DEPARTMENT	16
FINE ARTS DEPARTMENT.....	21
HEALTH AND PHYSICAL EDUCATION DEPARTMENT	29
LIFE MANAGEMENT DEPARTMENT	33
MATH DEPARTMENT	36
SCIENCE DEPARTMENT.....	41
SOCIAL STUDIES DEPARTMENT.....	47
WORLD LANGUAGE DEPARTMENT	52
SPECIAL PROGRAMS	57
ADDITIONAL CAREER AND TECHNICAL PROGRAMS	59

ROSEVILLE COMMUNITY SCHOOLS
NON-DISCRIMINATION POLICY

Statement of Policy

It is the policy of the Roseville Community School District that no discriminatory practices based on gender/sex, race, religion, color, age, national origin, disability, height, weight, or any other status covered by federal, state or local law be allowed in providing instructional opportunities, programs, services, job placement assistance, employment or in policies governing student conduct and attendance.

Grievance Procedure

Section 1: Any person believing that the Roseville Community School District, or any part of the school organization, has discriminated on the basis of race, color, national origin, gender/sex, age, disability, height, weight or marital status, may file a grievance with:

Civil Rights Coordinator
Administration Building
18975 Church Street
Roseville, Michigan 48066
586-445-5513

Grievance forms are available from any building principal or from the Administration Building.

Section 2: All grievances will be processed through the following steps:

- A. A written statement of the grievance, using the district's grievance form, shall be submitted to the Civil Rights Coordinator.
 - B. Upon receipt of the completed grievance form, the Coordinator will conduct an investigation and notify grievant of the results, including any remedial measures. Normally, the investigation will be concluded within (30) thirty school days.
 - C. Within (10) ten school days, the grievant may appeal, in writing, to the Superintendent of Schools, who will make a written decision, normally within (30) school days.
- The complete grievance procedure is found in Roseville Community Schools Board Policy GAAD, which can be obtained from the Coordinator.

GRADUATION REQUIREMENTS FOR STUDENTS ENTERING THE 9TH GRADE IN 2016 AND BEYOND

Students enrolled at RHS have the opportunity to earn 36 credits over four years.

High school graduation requires the successful completion of 32.5 credits, of which 21.5 are required. Transfer students are subject to credit review.

Students must maintain a six-hour schedule during grades 9-12. Exception: Students who are enrolled in a co-op program, dual enrollment, Early College and other such programs may enroll in less than six hours with principal or designee approval.

A student transferring into the Roseville School system during his senior year must have completed at least two full terms before that student is granted a diploma. Exceptions to this policy will be reviewed by the high school principal. Transfer students need to complete a "Credit Adjustment Worksheet."

STUDENTS ENTERING THE 9TH GRADE IN 2016 AND BEYOND

English Language Arts (ELA)	6.0 credits
Mathematics	4.5 credits
Science	4.0 credits
Social Studies	4.5 credits
Health/Physical Education	1.0 credits
Visual/Performing/Applied Arts	1.0 credits
World Languages*	2.0 credits
Electives*	<u>9.5 credits</u>
Total	32.5 credits

*If a student has not met the World Language requirements in K-8, they must take two (2) credits of World Language during their High School years. Students may substitute one (1) credit of World language with a CTE or Visual/Performing Arts course. Economics can be substituted with Personal Economics.

*All students are required to complete an online course or learning experience K-12.

Students who are unable to perform at grade level in math or reading may be placed in support classes as electives.

Successful Completion of the Following:

ENGLISH

Requirements – 5.0 credits

Requirements – 6.0 credits 2016 Freshmen Class

English 9 (1.5 credit)

English 11 (1.5 credit)

English 10 (1.5 credit)

English 12 (1.5 credit)

Advanced Placement English, Journalism II or CTE English, classes may be substituted for required English Language Arts credits.

No other modifications allowed by the State of Michigan.

MATHEMATICS

Requirements – 4.5 credits

Algebra I (1.5 credit)

Geometry (1.5 credit)

Algebra II (1.0 credit)

One (1) additional Math or Math Related Course* (.5 credit)

Students must enroll in one (1) math class each term in grades 9 – 10.

Students must enroll in one (1) math class for two terms in grade 11.

One math or math related course* must be completed in senior year.

Modification is allowed upon completion of .5 credit of Algebra II.

*Approved Math or Math Related Courses:

Math	Math Related
Calculator Math	Accounting & Financial Systems I
Probability & Statistics	Accounting & Financial Systems II
Trigonometry & Analysis	Astronomy
Calculus Readiness	Chemistry or AP Chemistrys
Math Enrichment	Computer Essentials
AP Calculus	Excel
	Hospitality
	Marketing
	Personal Economic
	Physics
	Vocational Auto Tech
	Vocational Building Trades
	Vocational Drafting
	Vocational Machine Shop

SCIENCE

Requirements – 4.0 credits

Biology (1.5 credit)
Chemistry (1.0 credit)

Physics (1.5 credit)

Roseville Community Schools requires all 9th grade students to enroll in Biology or AP Environmental Science. No modification allowed by the State of Michigan.

SOCIAL STUDIES

Requirements – 4.5 credits*

U.S. History/Geography (1.5 credit) Civics (1.0 credit)
World History/Geography (1.0 /1.5*credit) Economics (.5 credit)
Personal Economics (.5 credit)

- No modification of Civics Class.
- Modifications allowed only if student takes an additional credit beyond required credits in English Language Arts, Math, Science or World Language. Students with modifications must earn a minimum of 2.0 Social Studies credits.
- Advanced Placement Government fulfills Civics requirement.
- Advanced Placement U.S. History fulfills U.S. History/Geography requirement.
- Advanced Placement Human Geography may replace the World History course.

Ninth grade students entering in 2014 need 4.0 credits in Social Studies. World History requirement is 1.0 credit.

HEALTH AND PHYSICAL EDUCATION

Requirements—1.0 credit

Physical Education I: Health & Basic Aquatics (.5 credit) or
Health & Wellness (.5) credit
Physical Education II: Introduction to Sports & Fitness (.5 credit)

Students must take Physical Education I: Health & Basic Aquatics or Health & Wellness. Students cannot take both.

Modification allowed only for Physical Education II if student takes an additional credit beyond required credits in English Language Arts, Math, Science or World Language.

WORLD LANGUAGE

Requirements—2.0 credit

Students graduating in the year 2016-2020 must complete a World Language experience during their K-12 schooling. Here are a few examples of how a student might meet this expectation:

- Take elementary World Language at any level
- Take Spanish I and II or French I and II in middle school or high school.
- In addition, students graduating in 2016-2020 may substitute one credit of World Language with one credit of CTE or Visual Performing Arts.

If you would like to verify you have had the proper instruction to meet this requirement at a previous school, contact your high school counselor.

VISUAL/PERFORMING/APPLIED ARTS

Requirements – 1.0 credit

Classes that fulfill this requirement are listed below:

Advanced Auto Technology I or II	Advanced Building Trades I, II or III
Advanced Machine Trades I or II	Advanced Mechanical Drafting I or II
Advanced Woodworking I or II	Applied Technology
Applied Technology Externship	Art Exploration A, B or C
Band-9th Gr., Symphonic or Varsity	Basic Photography
Ceramics	Choir or Symphonic Choir
Drama I, II or III	Drawing-Beginning or Advanced
Hospitality Management Externship	Hospitality Management I, II or III
Jewelry Design	Journalism I or II
Music Exploration I or II	News and Broadcasting I, II or III
Painting-Beginning or Advanced	Pre-Vocational Auto Technology
Pre-Vocational Building Trades	Pre-Vocational Machine Trades
Pre-Vocational Mechanical Drafting	Pre-Vocational Woodworking
Senior Art Seminar	Speech
Stage/Jazz Ensemble	Yearbook
Web Design I or II	

Students may opt out of this requirement by taking an additional credit beyond required credits in English Language Arts, Math, Science, or World Languages.

Courses that meet one period per day are worth .5 credits per term.

Courses that meet two periods per day are worth 1.0 credit per term.

Refer to course catalog for length of each course.

COMMUNITY SERVICE

(Max 1.5 credit)

Approval must be obtained from the principal and parent before community service hours begin.

Community Service gives students an opportunity to develop personal responsibility, interpersonal skills and exposure to possible careers as well as providing help to others.

A maximum of one and one-half (1.5) credits can be earned towards high school graduation through community service. Students must secure their own service position. Service must be done as a volunteer; it cannot be a paid position. The student must work a minimum of 35 hours of service to earn one-half (.5) credit. Community Service forms are available in the counseling office.

ONLINE EXPERIENCE

All students are required to complete an Online Course or learning experience (grades 7-12)

No modification allowed by the State of Michigan.

DUAL ENROLLMENT

Students are allowed to attend courses at local colleges or universities while attending their own high school. This is called “dual enrollment”.

The State School Aid Act contains a provision that directs school districts to assist students in paying tuition and fees for courses at Michigan public or private colleges or universities, if all of the following conditions are met:

1. Selections must meet the approval of the principal.
2. The college courses must be academic courses (as opposed to “activity courses”).
3. A student may only dual enroll for courses not offered at Roseville High School or where there is a scheduling conflict.
4. Roseville Community Schools will count the college course as high school credit. The school will not include the course grade in the student’s GPA. Each individual college will determine if they will count the course as college credit.
5. Dual Enrollment courses are limited based on State Requirements.
6. Students must meet the Roseville Community Schools’ assessment requirements.

School districts are required to pay the lesser of (a) the actual charge for tuition and fees; or (b) the students’ state school aid foundation allowance, adjusted to the proportion of the school year they attend the district. Students are no longer eligible when all high school graduation requirements have been met.

EARLY COLLEGE OF MACOMB PROGRAM

Up to four (4) students per year may qualify to enroll as Early College students at Macomb Community College. Students that meet the following standards may apply during their 10th grade year. Qualified students will be entered into a random drawing for the four enrollments.

- G.P.A. of 3.25 or better at time of application
- Excellent attendance – 5 absences or less (each term) for 9th and 10th grade

This program requires students to attend a partial day at Roseville High School and a partial day at Macomb Community College. There is no cost to the student for tuition, fees or books. Students must have the maturity and ability to handle college-level curriculum in an independent manner. Transportation is not provided.

Students commit to a five (5) year high school enrollment that will meet the requirements for both a high school diploma and an Associate's Degree. Students will not receive their diploma until the end of the five (5) years.

CRITERIA FOR SCHEDULING

In cases of limited seating for a class, the following criteria will be used to determine enrollment.

- Successful completion of pre-requisite class
- Full course enrollment – 3 term requests will be taken before 2 terms or 1 term
- Grade level
 - Advanced Level: 12th, 11th, 10th, 9th
 - Basic Level: Seniors (12th) will not have preference over underclassmen
- Total credits earned
- Grade in prerequisite class
- Level of responsibility and work ethic demonstrated in prerequisite class, i.e. number of days missed

SUMMER SCHOOL/ADULT EDUCATION/CREDIT RECOVERY AND ON-LINE CREDITS

Credit may be earned in an approved summer school, adult education, credit recovery program or on-line course. Current students must seek prior approval from the principal or his designee to enroll for any of these above programs.

A maximum of (2) credits per year may be earned. Exceptions could be made by the principal. See counselor for online class opportunities.

Note: If the student does not complete his or her on-line course, or fails the course then RCS will not fund future on-line courses.

Here is a link to the acceptable online courses through MVU. www.micourse.org

TESTING OUT

The Roseville Board of Education recognizes the need to provide alternative means by which students can complete the graduation requirements prescribed by the state and Roseville Community Schools.

Any high school student who wishes to test out of a Michigan Merit core curriculum course in which he is not currently enrolled/attending may do so by taking the test out exam for the course and receiving a grade of at least C+. The grade on the assessment will not be used to determine a student's GPA. Credit for a course earned by a student through this process may be used to fulfill a course or course sequence requirement, and may be counted toward the required number of credits needed for graduation.

SECONDARY GRADING FOR GRADES 9-12

Roseville High School, Credit Recovery Classes and Summer School.

Credit Recovery or Summer School passing grade would replace failing grade earned in Roseville High School.

Only letter grades will be used to record and compute final grades. (Teachers who choose to use percentage grades for their own record keeping must convert them to letter grades for the grade book.) Letter grades will be averaged using a 13 point scale.

A+ = 13	B+ = 10	C+ = 7	D+ = 4	F = 0
A = 12	B = 9	C = 6	D = 3	
A- = 11	B- = 8	C- = 5	D- = 2	

Letter grades are used for all grade assignments. Tracking (i.e. homework assignments) must be keyed and converted to a letter grade.

The final grade is computed as follows:	Percentage	Grade	Example
Trimester Work	80%	F	$X .80 = 0$
Trimester Exam	20%	B-	$8 x .20 = 1.6$
Trimester Grade	100%	D-	1.6

EXAM EXEMPT CLASSES Trimester Coursework = 100%

A final grade is based upon the trimester coursework and the final exam, if applicable. In order to receive credit for the class, you must pass the trimester for a class with no exam, or have a passing grade after the exam (20%) and trimester (80%) are averaged.

When computing grades, round up for decimals .5 or higher; round down for decimals .4 or lower. Teachers are required to modify grades and/or expectations/assignments as described by 504 plans, personal curriculums, or IEP's for special education students.

HONOR POINT SYSTEM

An additional honor point may be earned by taking one of these courses and receiving a grade of B- or better:

Mathematics

Trigonometry
Calculus
Advanced Placement Calculus AB

Foreign Language

French IV
Spanish IV

Social Studies

Advanced Placement U. S. Government
Advanced Placement U. S. History
Advanced Placement Psychology
Advanced Placement Human Geography
Advanced Placement World History

Science

Advanced Placement Biology
Advanced Placement Chemistry
Advanced Placement Env. Science
Advanced Placement Physics

English

Advanced Placement English Composition
Advanced Placement English Literature

The point/grade system for these classes would be:

<u>Letter Grade/Points Now</u>			<u>Changed To</u>
A+	-	13	14
A	-	12	13
A-	-	11	12
B+	-	10	11
B	-	9	10
B-	-	8	9

GRADE LEVEL STATUS:

Is based on credits accumulated through September of the current school year.

9 th Grade	First Year of High School
10 th Grade	Second Year of High School
11 th Grade	Third Year of High School + 9.5 Credits
12 th Grade	Fourth Year of High school + 17.5 Credits

Students that have not achieved 12th grade status by September but have demonstrated an ability to achieve graduation status by June (night school, summer school, credit recovery, etc.) are eligible to graduate. Students are encouraged to work with their counselor on this matter.

Above is based on a 9.0 credit schedule per year. Transfer students will be addressed in a proportional manner.

APPLIED TECHNOLOGY DEPARTMENT

APPLIED VOCATIONAL TECHNOLOGY

Course Number: 7101

Length of Course: 1 term
Credits Earned: ½ credit per term
Grade Level: 9, 10, 11, 12

Applied Technology is a survey of various technologies used in today's society. This class will give the student an opportunity to study a diverse range of technologies and how they relate to "real world" application. The majority of class will be developing the student's knowledge of problem solving, using hands-on projects and group activities. Some computer simulation may be used to enhance the student's comprehension of the subject.

PRE-VOCATIONAL AUTO TECHNOLOGY

A Course Number: 7111
B Course Number: 7112
C Course Number: 7116

Length of Course: 3 terms
Credits Earned: ½ credit per term
Grade Level: 10, 11

Course A: The first term covers safety with tools and tool usage, and covers basic components and identification of systems of the automobile.
Course B: The second term covers safety with tools and tool usage, and students will learn basic automobile maintenance and perform objectives, such as oil change, tire rotation, and tune-ups based on the NATEF requirements.
Course C: The third term covers safety with tools and tool usage, and students will learn basic operation of the 4-stroke engine and the alternative fuel engines. Students dismantle and rebuild an engine in the course.

PRE-VOCATIONAL BUILDING TRADES

A Course Number: 7121
B Course Number: 7122
C Course Number: 7123

Length of Course: 3 terms
Credit Earned: ½ credit per term
Grade: 9, 10, 11, 12

Course A: Students will be introduced to many facets of the building trades industry. This class will emphasize general safety practices as well as safe use of hand and power tools. In addition, the student will gain a working knowledge of selected hand and power tools as they relate to construction-oriented projects. Hands-on experiences are an integral part of the curriculum.
Course B: This course will provide a "hands-on learning" experience in blueprint and

plan reading through the construction of oriented projects. This will include use of all applicable tools and materials required in the construction of a house. During this course all aspects of site and workplace safety related to residential construction will be practiced and evaluated. General safety practices as well as safe use of hand tools will be emphasized.

Course C: This course is designed to give students hands-on real application in the building trades. Career and occupational competencies are taught in plumbing, electrical, framing, drywall, roofing, siding and power tool usage. Safety practices as well as safe use of hand and power tools will be emphasized. Students will construct a large-scale project.

PRE-VOCATIONAL MACHINE TRADES

A Course Number: 7151

B Course Number: 7152

C Course Number: 7153

Length of Course: 3 terms
Credit Earned: ½ credit per term
Grade: 9, 10, 11, 12

Course A: This course covers the importance of shop safety, tool safety, and machine safety. Students will be introduced to the vertical milling machine, its operations, setups, tooling, and the use of precision measuring instruments.

Course B: This course covers the importance of shop safety, tool safety, and machine safety. Students will be introduced to the engine lathe, its operations, setups, tooling, and the use of precision measuring instruments.

Course C: This course covers the importance of shop safety, tool safety, and machine safety. Students will be introduced to the surface grinder, its operations, setups, tooling, and the use of precision measuring instruments.

Note: Students may enroll in the entire series, A, B, C but are not required.

PRE-VOCATIONAL WOODWORKING

A Course Number: 7170

B Course Number: 7171

C Course Number: 7172

Length of Course: 3 terms
Credit Earned: ½ credit per term
Grade: 9, 10, 11, 12

Course A: This course covers shop safety, tool safety, and machine safety. Students will begin building a mandatory project to become confident with the basic skills of wood-working. After completing the first project, the students may pick their next one from a recommended list.

Course B: This course will review critical parts of Course A. If a student has successfully completed Course A, they will begin to explore more advanced joinery and furniture building.

Course C: This course will review critical parts of Course A. If a student has success-

fully completed Course A, and/or B they will continue to expand their skills in more advanced woodworking methods and projects.

Note: Students may enroll in the entire series, A, B, C but are not required.

ADVANCED VOCATIONAL AUTO TECHNOLOGY I

A Course Number: 7214

B Course Number: 7215

C Course Number: 7219

Length of Course: 3 terms+
Credit Earned: 1 credit per term (2 Hours)
Grade: 11, 12

This course is designed to train persons interested in becoming automotive technicians. Experience will be gained by completing performance objectives and performing various service repairs on customer's cars.

Course A: The first term covers shop safety, tool usage, automotive brakes, and service of tires.

Course B: The second term covers basic electronics, batteries, alternators, starters, and circuit service procedures.

Course C: The third term covers ignition systems, basic fuel operation, and fuel injection system service and operation.

ADVANCED VOCATIONAL AUTO TECHNOLOGY II

A Course Number: 7216

B Course Number: 7217

C Course Number: 7218

Length of Course: 3 terms+
Credit Earned: 1 credit per term (2 Hours)
Grade: 12
Prerequisite: Advanced Vocational Auto Technology I

This course is a comprehensive auto service training program designed for the student interested in a career in the automotive service trades. Advanced auto service and repair techniques are taught.

Course A: The first term covers shop safety, equipment usage, front-end alignment, advanced fuel injection, and OBD II operation and service.

Course B: The second term covers computer scanners, advanced engine performance, diagnostics, and maintenance procedures.

Course C: The third term covers clutch and transmission service as well as theory of powertrain operation and service of rear ends and transaxles.

+It is recommended that students complete Course A before taking Course B & C

ADVANCED VOCATIONAL BUILDING TRADES I

A Course Number: 7223

B Course Number: 7224

C Course Number: 7230

Length of Course: 3 terms+
Credit Earned: 1 credit per term (2 Hours)
Grade: 10, 11, 12

Building Trades classes are designed to give the students on-the-job experience of many skilled trades through the actual construction of a house. The students should learn all concepts of construction from foundation to the finished house. The trades include masonry, carpentry, electrical, plumbing, drywall and roofing. The students will work in small groups with assigned tools and through this group they will learn responsibility, cooperation, and how to work with others. These courses are cyclical in nature and may overlap depending on the status of the house.

ADVANCED VOCATIONAL BUILDING TRADES II

A Course Number: 7225

B Course Number: 7226

C Course Number: 7231

Length of Course: 3 terms+
Credit Earned: 1 credit per term (2 Hours)
Grade: 11, 12
Prerequisite: Advanced Vocational Building Trades I

The class will allow students to complete the interior finish of a house using electric, pneumatic and hand tools. Students will also be involved in group leadership of the students in Advanced Building Trades I rough construction projects. Objectives: To install moldings, vents, doors, cabinets, counter tops and all needed trim, stain and varnish all trim work to a pleasing finish, install laminates, install finished electrical fixtures, install plumbing fixtures, assume leadership qualities as needed, install tile and carpeting, follow directions of building inspectors as to code for obtaining an occupancy permit for finishing the house. These courses are cyclical in nature and may overlap depending on the status of the house.

ADVANCED VOCATIONAL BUILDING TRADES III

A Course Number: 7227

B Course Number: 7228

C Course Number: 7229

Length of Course: 3 terms+
Credit Earned: 1 credit per term (2 Hours)
Grade: 12
Prerequisite: Advanced Vocational Building Trades II

+It is recommended that students complete Course A before taking Course B & C

This course provides hands-on instruction in blueprint reading, building codes, use of documents on the job site, cost analysis and advanced rough and finish skills. The student will provide assistance to help other students achieve Building Trades objectives. This student will also be introduced to in-depth studies of building trade concepts, related to occupations. The successful student will have the opportunity to experience a seamless school-to-work transition.

ADVANCED VOCATIONAL MACHINE TRADES I

A Course Number: 7253

B Course Number: 7254

C Course Number: 7258

Length of Course: 3 terms+

Credit Earned: 1 credit per term (2 Hours)

Grade: 11, 12

Prerequisite: Successful completion of Pre-Vocational Machine Trades

Advanced Machine Trades I is a course in which emphasis is placed on accuracy and planning machining operations. Students will be required to work to close tolerances, while learning more complex setups and machining operations on standard toolroom machinery.

Course A: This course covers shop safety, precision layout, and multiple machining operations. Students will use complex setups and close tolerance machining.

Course B: This course is a continuation of Course A. Students will expand their skills in precision machining and setup with more advanced projects.

Course C: This course combines skills learned in Course A and Course B. Students are required to complete more challenging and in-depth projects.

ADVANCED VOCATIONAL MACHINE TRADES II

A Course Number: 7255

B Course Number: 7256

C Course Number: 7257

Length of Course: 3 terms+

Credit Earned: 1 credit per term (2 Hours)

Grade: 12

Prerequisite: Successful completion of Advanced Vocational Machine Trades I

The programming of computer controlled machines (CNC) and more complex functions are included.

Course A: This course covers safety and the introduction to the CNC milling machine. Students will learn how to program the machine with codes.

Course B: This course is a continuation of Course A. Students will expand their skills in more advanced programming and machining.

Course C: This reinforces the use of CNC machining and programming. Students will write programs, program the machine, and successfully machine the program.

+It is recommended that students complete Course A before taking Course B & C

ADVANCED VOCATIONAL WOODWORKING

A Course Number: 7173

B Course Number: 7174

C Course Number: 7175

Length of Course: 3 terms
Credit Earned: ½ credit per term
Grade: 11, 12

This course has been designed to introduce students to the tools, equipment and technologies used in woodworking, furniture construction and design. With a strong emphasis in Early American Colonial, Shaker and Mission style crafts. This will also enhance the student's historical awareness and appreciation of the art of woodworking.

ADVANCED VOCATIONAL WOODWORKING II

A Course Number: 7180

B Course Number: 7181

C Course Number: 7182

Length of Course: 3 terms
Credit Earned: ½ credit per term
Grade: 11, 12
Prerequisite: Advanced Vocational Woodworking I

This course has been designed for students who have demonstrated advanced skills on tools, equipment, and technologies used in woodworking. Students will complete advanced projects that can be entered in competitions.

APPLIED VOCATIONAL TECHNOLOGY EXTERNSHIP

A Course Number: 7363

B Course Number: 7364

C Course Number: 7365

Length of Course: 3 terms
Credit Earned: 1/2 credit per term
Grade: 12
Prerequisite: Current or prior enrollment in Vocational Education Block

Students will obtain actual on-the-job training for credit and a grade. The training station must be in the Applied Technology occupation area and the student must be employed for a minimum average of 15 hours per week. Students are selected in January of their junior year. Students must secure a related industrial job either through their own resources approved by the coordinator or through leads provided by the coordinator at the beginning of the school year. Co-op students must be enrolled in Applied Technology. If job placement is not completed in the first two weeks of school, the student will be rescheduled into the regular school day. Other schedule adjustments can be made as job placements become available.

BUSINESS DEPARTMENT

COMPUTER APPLICATIONS EXCEL AND ACCESS

Course Number: 5023

Length of Course: 1 term
Credit Earned: ½ credit per term
Grade: 9, 10, 11, 12

Acquire the essential skills required for both college and careers. Students in this course will master basic and intermediate skills in **Microsoft Excel and Access**. Students will also prepare presentable materials based on data collection. An integrated simulation type project will be used for the culminating activity in this course. Students who chose to may take the **MOS Certification test** for this program at the end of the trimester.

COMPUTER APPLICATIONS WORD

Course Number: 5024

Length of Course: 1 term
Credit Earned: ½ credit per term
Grade: 9, 10, 11, 12

Acquire the essential skills required for both college and careers. Students in this course will master basic and intermediate skills in **Microsoft Word**. Students will also prepare presentation ready documents based on data collection. An integrated simulation type project will be used for the culminating activity in the course. Students who chose to may take the **MOS Certification test** for this program at the end of the trimester.

COMPUTER APPLICATIONS POWERPOINT

Course Number: 5190

Length of Course: 1 term
Credit Earned: ½ credit per term
Grade: 9, 10, 11, 12

Acquire the essential skills required for both college and careers. Students in this course will master basic and intermediate skills in **PowerPoint**. Students will also prepare and deliver presentations based on data collection. An integrated simulation type project will be used for the culminating activity in the course. Students who chose to may take the **MOS Certification test** for this program at the end of the trimester.

COMPUTER SCIENCE ESSENTIALS

A Course Number: 5270

B Course Number: 5271

C Course Number: 5272

Length of Course: 3 terms
Credit Earned: ½ credit per term
Grade: 9, 10, 11, 12

In Computer Science Essentials, students will use test-based programming to code apps and develop websites. They'll apply computational thinking practices, build their vocabulary, and collaborate just as computing professionals do to create products that address topics and problems important to them.

BUSINESS MANAGEMENT & EMPLOYABILITY SKILLS

A Course Number: 5150

B Course Number: 5151

C Course Number: 5152

Length of Course: 3 terms
Credit Earned: ½ credit per term
Grade: 10, 11, 12

Course A: Explore the American Banking System as it applies to banks, businesses, and individual consumers. Topics that will be covered but not limited to include money management strategies, checking accounts, investing (stocks, bonds, etc.), career planning, managing payroll, business funding, and financial planning. The use of an investment type simulation project will be used as culminating activity in this course.

Course B: Explore all options of business ownership. Students start with a business idea and will end up creating a business plan for a sole proprietorship. Along the way covering topics but not limited to operations, quality control, financing the business, and project management.

Course C: This course will help you develop personal, decision-making, and employability skills that will help create a foundation as you prepare for the challenges you will face after graduation. Skills and topics to be covered include teamwork and problem solving skills, communication on the job and leadership enhancement. Students will also explore careers learning proper application and interview skills, along with ethical behavior and professional dress.

ACCOUNTING & FINANCIAL SYSTEMS I

A Course Number: 5030

B Course Number: 5031

Length of Course: 2 terms
Credit Earned: ½ credit per term
Grade: 10, 11, 12

This course teaches students the basic accounting skills necessary for managing and maintaining financial records for small businesses, as well as an understanding of the accounting process. Students will learn how to record business transactions as debits and credits in T accounts and ledgers. Students will also learn how to journalize, create balance sheets, balance bank statements, manage payroll, and many other accounting functions for a small business.

ACCOUNTING & FINANCIAL SYSTEMS II

A Course Number: 5032

B Course Number: 5033

Length of Course: 2 terms
Credit Earned: ½ credit per term
Grade: 11, 12
Prerequisite: Accounting I

This course teaches students accounting skills necessary for managing and maintaining financial records for partnerships, nonprofit organizations, departmental businesses, and corporations. Students will learn how to do inventory planning, journalize depreciation, calculate and journalize dividends for corporations, prepare budget reports and financial reports. This course is for students who are considering careers in accounting, marketing, management, and business administration.

WEB DESIGN/DIGITAL MEDIA I

A Course Number: 5225

B Course Number: 5226

C Course Number: 5227

Length of Course: 3 terms
Credit Earned: 1 credit per term (2 Hours)
Grade: 10, 11, 12

This course is a two-hour block program open to all 10th, 11th, and 12th graders. The Adobe Creative Suite (Dreamweaver/Photoshop/Flash) will be used to introduce high school students to various skills, methods, and techniques related to basic web design and photo editing, including HTML and coding, CSS (Cascading Style Sheets), image optimization, basic animations and roll overs. Students will be required to utilize a number of web design skills learned in class. Real-life skills such as reading, writing, imagination, self-expression, problem solving, attention to detail, work ethic, follow through and communication skills will be assessed. The main focus of this class will be production (the actual creation of web pages and web sites); however, attention will also be on design (the organization of structure of formal elements in a composition/the combination of details or features of a composition).

WEB DESIGN/DIGITAL MEDIA II

A Course Number: 5240

B Course Number: 5241

C Course Number: 5242

Length of Course: 3 terms
Credit Earned: 1/2 credit per term
Grade: 11, 12
Prerequisite: Web Design I

The goal of this course is to provide all students with the study of advanced topics in web design. Web Design and Digital Media is a prerequisite for this course. Upon completion of this course, students should have a thorough knowledge of all areas of web page design. This program will emphasize how to plan, create, design, critique and maintain a web site. Topics include the web development process, advanced layout and design features, advanced study of scripting languages, site development with HTML editors and web servers and databases. Students will learn a wide variety of proficiencies including HTML coding, CSS (Cascading style Sheets), Adobe Creative Suite (Dreamweaver, Adobe FLASH), communication and business writing skills, graphics and design. Internet usage and research is an integral component of this class, as well as using the digital camera and Adobe Photoshop.

MARKETING EDUCATION I

A Course Number: 5110

Length of Course: 1 term
Credit Earned: 1 credit per term
Grade: 10, 11

Students gain an understanding of the importance of marketing in today's society. Students will develop the ability to communicate effectively in the workplace. In this course, students will learn about economics, marketing, sales, employability, career discovery, and ethical decision-making.

MARKETING EDUCATION II

A Course Number: 5120

B Course Number: 5121

C Course Number: 5122

Length of Course: 3 terms
Credit Earned: 1 credit per term (2 Hours)
Grade: 12
Prerequisite: Marketing Education I

Marketing Education is the study of business functions such as management, distribution, product/service planning, promotion, purchasing, selling, math, business ownership, and much more. It is a class in which part of each day is spent working for the school store, "THE PANTHER DEN". This provides students with a "hands-on" experience in business.

MARKETING EDUCATION EXTERNSHIP AND RELATED CLASS

A Co-Op Course Number: 5316

B Co-Op Course Number: 5317

C Co-Op Course Number: 5321

Length of Course: 3 terms

Credit Earned: ½ credit per term

Grade: 12

Prerequisite: Coordinator's approval and/or Marketing Education Store Block

This course will provide students with on-the-job training for credit and a grade. Students will be employed at a training station for a minimum average of 10 hours per week. Generally, students are selected during the second half of their junior year. They must secure a marketing job either through their own resources or through leads provided by the coordinator at the beginning of the school year.

BUSINESS EXTERNSHIP

A Course Number: 5332

B Course Number: 5334

C Course Number: 5338

Length of Course: 3 terms

Credit Earned: ½ credit per term

Grade: 12

Prerequisite: Coordinator's Approval or Current or previous enrollment in a business ed. class

Students will obtain actual on-the-job training for credit and a grade. The training station must be in the business occupations area and the student must be employed for a minimum average of 10 hours per week. Students are generally selected during the second half of their junior year. They must secure an office job either through their own resources or through leads provided by the coordinator at the beginning of the school year. Students must have had or be enrolled in any of the Business Department classes.

COMMUNICATION COURSES

DEBATE AND PERSUASION

Course Number: 9028

Length of Course: 1 term
Credits Earned: ½ credit per term
Grade Level: 10, 11, 12
Prerequisite: Speech or Drama

This course builds upon concepts learned in Speech. Students will use the communication process and public speaking techniques as they work in individual and group settings. Students will research, plan, and construct persuasive speeches concentrating on the topic, purpose, and audience. Students will engage in a variety of debate situations designed to influence others' beliefs and actions.

SPEECH

A Course Number: 9210

B Course Number: 9211

Length of Course: 2 terms
Credits Earned: ½ credit per term
Grade Level: 9, 10, 11, 12

Course A: Students will learn skills to effectively communicate in interpersonal small and large group situations they will encounter in the real world. .

Course B: Students will learn skills to persuasively communicate in formal and informal real-world situations.

NEWS AND BROADCASTING I

Course Number: 9230

Length of Course: 1 term
Credits Earned: ½ credit per term
Grade Level: 10, 11, 12

The first part of the course will concentrate on the different forms of mass media. The second part of the course will focus on learning the skills that are necessary to edit videos and produce the daily announcements. Speech writing skills will be utilized.

NEWS AND BROADCASTING II

A Course Number: 9232

B Course Number: 9233

Length of Course: 2 terms
Credits Earned: ½ credit per term
Grade Level: 11, 12

In this class, students will produce the daily video announcements. Students will be required to turn in a video project each week, produce the announcements one day a week, and be an anchor once a month. Students will learn the importance of meeting deadlines, working in groups, and responsible journalism. Success in this course requires a time commitment that goes beyond the scheduled class time. This course is designed for students with a serious interest in pursuing media production as a career.

NEWS AND BROADCASTING III

Course Number: 9235

Length of Course: 1 term
Credits Earned: ½ credit per term
Grade Level: 12

Students will take the roles of producers and directors of the television announcement. Students will be expected to lead a production team for both the creation of videos and production of daily announcements. Students will need to demonstrate the ability to work independently as well as display leadership qualities. This course is intended for students with a serious interest in the mass media field.

JOURNALISM I

Course Number: 9027

Length of Course: 1 term
Credits Earned: ½ credit per term
Grade Level: 9, 10, 11

Journalism is designed to develop students' skills in reading, writing, discussion, and analysis. Students will develop these techniques by learning the historical and ethical aspects of journalism, and will apply these ideas to writing articles that may include news, feature, editorial, sports, and technology genres. In addition, students will practice brainstorming and computer/layout design skills.

This class is a prerequisite for those students who plan to become part of the newspaper and/or yearbook staff(s).

JOURNALISM II

A Course Number: 9030

B Course Number: 9031

C Course Number: 9032

Length of Course: 3 terms
Credits Earned: ½ credit per term
Grade Level: 10, 11, 12
Prerequisite: Journalism I

Students will publish the school newspaper, Panther Prowl, approximately six times a year, along with other publication opportunities. In addition, they will produce stories for our website, pprowl.com, along with frequent updates on social media. Students will write a variety of stories while conducting research and interviews, attending events, and taking photographs. Students are expected to meet deadlines, engage in page layout and graphic design, and sell advertising to meet printing costs. Some students will be assigned additional responsibilities as members of the editorial staff, including editor-in-chief, copy and sports editors.

Journalism II may replace English 12 graduation requirement.

YEARBOOK

A Course Number: 9250

B Course Number: 9251

C Course Number: 9252

Length of Course: 3 terms
Credits Earned: ½ credit per term
Grade Level: 11, 12
Prerequisite: Journalism

This is an all year course, students must take all three sections in order to complete the yearbook. Yearbook requires attendance at some after school events along with some off campus activities to acquire pictures and other information necessary to produce the yearbook.

Course A: The yearbook class produces *Reflections*, the yearbook, which records the memories of the school year. Students write the copy, design the layouts, take pictures, gather beat sheets while selling advertising and marketing the product to businesses, parents and students. In addition, students learn the necessity of working as a unit and meeting deadlines. Students must be willing to help other groups when necessary.

Course B: Students continue to write the copy, design the layouts, take pictures, gather beat sheets while selling advertising and marketing the product to businesses, parents and students. Students must be willing to help other groups when necessary, while meeting deadlines.

Course C: During this term, the yearbook will be completed and distributed.

MEDIA/JOURNALISM INDEPENDENT STUDY

A Course Number: 9270

B Course Number: 9271

C Course Number: 9272

Length of Course: 3 terms

Credits Earned: ½ credit per term

Grade Level: 11-Media & Newspaper/12-Media, Newspaper, Yearbook

Prerequisite: Successful completion of associated class (News & Broadcasting, Newspaper, Yearbook)

This independent study course is designed for advance students in News & Broadcasting, Newspaper, and/or Yearbook. The course is for students who plan on continuing their communications education at the college level. Students will build upon their communications portfolio as an opportunity to gain experience in the field. Opportunities will be provided to develop both personal and group management skills while applying knowledge and experience from previous communications course work.

ENGLISH DEPARTMENT

ENGLISH 9

A Course Number: 9005
B Course Number: 9006
C Course Number: 9010

Length of Course: 3 terms
Credits Earned: ½ credit per term
Grade Level: 9
Graduation Requirement

Course A: This course will focus on the English Language Arts Unit’s “Learning Life’s Lessons Through Literature Inter-Relationships and Self-Reliance” teaching plan. In addition, Unit One, Crisis and Conflict will also be covered.

Course B: This course is based on the connection between literary genres and the outside world. This course will focus on high school procedures in composition and literature.

Course C: This course will utilize drama and poetry to interpret the outside world. It will introduce students to Shakespeare and Homer. Students will also be called upon to synthesize articles to formulate an argument for this course’s required research paper.

ENGLISH 10

A Course Number: 9007
B Course Number: 9008
C Course Number: 9009

Length of Course: 3 terms
Credits Earned: ½ credit per term
Grade Level: 10
Graduation Requirement

Course A: Key pieces from America’s struggle for independence highlight the literature in this course of study which features the overall theme of integrity. Persuasive writing skills will be enhanced.

Course B: The literature in this section will explore the power of the individual. Students will work on synthesis writing skills to prepare for the ACT and college writing. Additional fiction selections will reflect a broad base of cultural and historical backgrounds.

Course C: The third installment of this course takes an in depth view of contemporary fiction. The struggle for equality in American society coupled with the students’ personal experiences will promote discussion and writing.

ENGLISH 11

A Course Number: 9020

B Course Number: 9019

C Course Number: 9018

Length of Course: 3 terms
Credits Earned: ½ credit per term
Grade Level: 11, 12
Graduation Requirement

Course A: This course focuses on the themes of leadership and heroes.

Course B: This course focuses on the themes of choices and decision-making.

Course C: This course focuses on the themes of technology in society and dealing with change.

ENGLISH 12

A Course Number: 9022

B Course Number: 9023

C Course Number: 9024

Length of Course: 3 terms
Credits Earned: ½ credit per term
Grade Level: 12
Graduation Requirement

Course A: Explores how leaders can inspire and influence through the use of language.

Course B: Explores how leaders can inspire passion through purpose, potential and culture choices.

Course C: This course challenges students to consider the type of leaders they want.

NOVELS

Course Number: 9060

Length of Course: 1 term
Credits Earned: ½ credit per term
Grade Level: 11, 12

Students read novels that cross culture, gender and time frames. This course is intended to promote reading for enjoyment and skill development. Reports, quizzes and presentations and writing projects will be used for assessment.

WRITING WORKSHOP

Course Number: 9015

Length of Course: 1 term
Credits Earned: ½ credit per term
Grade Level: 11, 12

Students learn to become a better writer and evaluator of writing. Daily writing requirements give students an opportunity to compose poetry, prose, fiction, non-fiction, drama and letters based on a variety of topics. The class, which covers topics such as grammar and usage, editing and publishing, is intended for all students wishing to improve their writing skills.

ADVANCED PLACEMENT ENGLISH COMPOSITION

A Course Number: 9036

B Course Number: 9037

C Course Number: 9038

Length of Course: 3 terms
Credits Earned: ½ credit per term
Grade Level: 11, 12

This is a full year course; students must take all three terms to prepare for the AP Exam.

AP English Composition requires students to use the writing process to produce expository and argumentative compositions in response to a variety of non-fiction topics. Students analyze the rhetorical techniques and writing strategies used by writers of non-fiction and apply these to their own writing. This class prepares college-bound students to take the AP Language and Composition test.

Course A: This term focuses on the writing process in memoirs and reflective writing.

Course B: This term focuses on logic and argumentative writing.

Course C: This term focuses on classic essays and longer works of non-fiction.

ADVANCED PLACEMENT ENGLISH LITERATURE

A Course Number: 9034

B Course Number: 9035

C Course Number: 9039

Length of Course: 3 terms

Credits Earned: ½ credit per term

Grade Level: 11, 12

Prerequisite: Honors English, AP Comp, or teacher recommendation

This is a full year course; students must take all three terms to prepare for the AP Exam.

This literature based honors course is intended specifically for college-bound seniors and those who intend to take the Advanced Placement Examination in English Literature. This course focuses on writing critical analyses of literary works.

Course A: This term focuses on novels, plays, short stories, poetry and essays to develop the basic structure of literature, how to analyze it, and write an analysis of it. The focus of time period and background of literature and authors is explored. .

Course B: A continuation of analyzing novels, plays, short stories, poetry and essays to further the advancement of writing and perception. Also, preparation and practice tests for the AP test in the spring becomes more of a focus. .

Course C: Preparation of the AP test becomes heavily focused on and final novel is more student directed than teacher directed. There is still a variety of novels, plays, short stories, poetry and essays read and analyzed.

LANGUAGE ARTS ENRICHMENT

9th Grade

A Course Number: 9305

B Course Number: 9306

C Course Number: 9310

10th Grade

A Course Number: 9307

B Course Number: 9308

C Course Number: 9309

Length of Course: 3 terms

Credits Earned: ½ credit per term

Grade Level: 9, 10

This course is designed to help those students who are reading well below grade level based. Students will learn the reading strategies, predicting, retelling, visualizing and making life connection to help understand text materials. Student placement determined by teacher recommendation and test scores.

CTE ENGLISH

A Course Number: 9080

B Course Number: 9081

C Course Number: 9082

Length of Course: 3 terms

Credits Earned: ½ credit per term

Grade Level: 11, 12

This course may be taken only once in either 11th or 12th grade.

Communication is essential in the vocational job market. This course will help students develop the vocational reading and writing skills necessary for entering the workplace.

Course A: Reading owner's manuals, technical manuals, and industry articles; persuasive and expository writing; completing applications.

Course B: Reading technical manuals, industry and career articles, business communication (in line with Work Keys); process analysis, expository and resume writing; completing business forms (purchase order, customer repair).

Course C: Reading technical manuals, industry and career articles, business communication; process analysis and persuasive writing; completing business forms; interviewing skills; making presentations.

FINE ARTS DEPARTMENT

ART EXPLORATION A/DRAWING CONCEPTS

Course Number: 6051

Length of Course: 1 term
Credits Earned: ½ credit per term
Grade Level: 9, 10, 11, 12

This course is an introduction to the basic drawing concepts and techniques used in drawing. This class will focus on observational drawing strategies, value application and perspective drawing concepts.

This course, along with Art Exploration B or C, is a prerequisite for all other art courses.

ART EXPLORATION B/PAINTING AND COLOR THEORY CONCEPTS

Course Number: 6052

Length of Course: 1 term
Credits Earned: ½ credit per term
Grade Level: 9, 10, 11, 12

This course is an introduction to the basic painting and color theory concepts used within the painting medium. This class will focus on the concepts of design, observational painting and printmaking techniques. Students will learn and apply a variety of color theory concepts within their work to create a strong composition.

This course, along with Art Exploration A or C, is a prerequisite for all other art courses.

ART EXPLORATION C/CRAFTS

Course Number: 6066

Length of Course: 1 term
Credits Earned: ½ credit per term
Grade Level: 9, 10, 11, 12

This course is an introduction into a variety of crafts. The class will focus on the three-dimensional art form such as, ceramic, jewelry design, fiber design and sculpture. Creativity, composition and the development of strong craftsmanship is emphasized within this course.

This course, along with Art Exploration A or B, is a prerequisite for all other art courses.

BEGINNING DRAWING

Course Number: 6053

Length of Course: 1 term
Credits Earned: ½ credit per term
Grade Level: 9, 10, 11, 12
Prerequisite: Need two choices from Art Exploration A, B or C

Students learn to use a variety of drawing medias and develop an understanding of their uses and techniques. The focus of this class will be on observational drawing, compositional strategies while working with a still life set-up, drawing the human figure will also be introduced. Drawing assignments will incorporate both black and white along with color studies.

ADVANCED DRAWING

**Course Number: 6063
ODD YEARS ONLY
STARTING SEPTEMBER 2012**

Length of Course: 1 term
Credits Earned: ½ credit per term
Grade Level: 10, 11, 12
Prerequisite: Need two choices from Art Exploration A, B or C
along with Beginning Drawing

Students learn advanced techniques of shading through the use of stippling, cross hatching and exploring the uses of pen and ink within the drawing process. Students will be incorporating several creative problem-solving strategies within this course and incorporate the use of technology through the creative process. Drawing assignments will incorporate both black and white along with color studies. Students will also learn how to professionally present their drawings.

BEGINNING PAINTING

Course Number: 6054

Length of Course: 1 term
Credits Earned: ½ credit per term
Grade Level: 9, 10, 11, 12
Prerequisite: Need two choices from Art Exploration A, B or C

Students learn to use a variety of painting medias, such as, Tempera, Watercolor and Acrylics. They will increase their knowledge and applications of color theory and painting techniques. Students will also be exposed to various periods of art styles and artists.

ADVANCED PAINTING

**Course Number: 6064
EVEN YEARS ONLY STARTING
SEPTEMBER 2012**

Length of Course: 1 term
Credits Earned: ½ credit per term
Grade Level: 10, 11, 12
Prerequisite: Need two choices from Art Exploration A, B or C along with Beginning Painting

Students will apply advanced painting techniques of Watercolor, Acrylic and Oil Painting mediums within this class. Students will learn how to stretch a canvas and incorporate computer graphic programs within the advanced course. Introduction of various art styles and artists will enhance the student's work.

BEGINNING JEWELRY DESIGN

Course Number: 6057

Length of Course: 1 term
Credits Earned: ½ credit per term
Grade Level: 10, 11, 12
Prerequisite: Need two choices from Art Exploration A, B or C
Basic course materials are provided at no cost. Students who choose to do extended projects may be responsible for additional costs.

This course emphasizes the relationship of a design to its material, techniques and function. A variety of materials will be used to create functional jewelry designs. Students will learn the following techniques: sawing, filling, etching, soldering and polishing.

ADVANCED JEWELRY DESIGN

**Course Number: 6061
ODD YEARS ONLY
STARTING SEPTEMBER 2012**

Length of Course: 1 term
Credits Earned: ½ credit per term
Grade Level: 10, 11, 12
Prerequisite: Need two choices from Art Exploration A, B or C along with Beginning Jewelry Design. Basic course materials are provided at no cost. Students who choose to do extended projects may be responsible for additional costs.

This course is a progression from basic jewelry construction to more advanced design and construction techniques. Additional techniques learned are, Casting, stone cutting, polishing and setting.

BASIC PHOTOGRAPHY

Course Number: 6065
EVEN YEARS ONLY
STARTING SEPTEMBER 2012

Length of Course: 1 term
Credits Earned: ½ credit per term
Grade Level: 10, 11, 12
Prerequisite: Need two choices from Art Exploration A, B or C
Basic course materials are provided at no cost. Students who choose to do extended projects may be responsible for additional costs.

This class consists of the traditional, chemical darkroom experience and the computer graphic concepts of photography, using the Photoshop software. Students will focus on the use of the camera, both traditional and digital, creating interesting photocomposition, development of black and white film and prints using the traditional chemical process. Through the use of technology, students will learn how to manipulate images with the use of computers.

CERAMICS

Course Number: 6055
ODD YEARS ONLY
STARTING SEPTEMBER 2012

Length of Course: 1 term
Credits Earned: ½ credit per term
Grade Level: 10, 11, 12
Prerequisite: Need two choices from Art Exploration A, B or C
Basic course materials are provided at no cost. Students who choose to do extended projects may be responsible for additional costs.

Students will be introduced to various hand-built pottery techniques. This course will focus on design, construction, glaze application, and decorative techniques.

SENIOR ART SEMINAR A/INDEPENDENT STUDY

Course Number: 6058

Length of Course: 1 term
Credits Earned: ½ credit per term
Grade Level: 12
Prerequisite: Need two choices from Art Exploration A, B or C and instructor's approval

This independent study course is geared for students who plan on continuing their art education at the college level. This class is to build upon their fine art's portfolio, a requirement of art schools. Students are required to be on task and productive within this class. There will be several demonstrations provided on areas of interest; however, students are required to do additional research on various art techniques.

SENIOR ART SEMINAR B/SENIOR PROJECT

Course Number: 6059

Length of Course: 1 term
Credits Earned: ½ credit per term
Grade Level: 12
Prerequisite: Senior Art Seminar A Instructor's approval

This is a continuation of the Art History section and Senior Art Seminar. Students within their research group will select a work of art depicting the selected artist or cultural influences that best represents their research and reproduce the select artwork.

DRAMA I

A Course Number: 6550

B Course Number: 6551

Length of Course: 2 terms
Credits Earned: ½ credit per term
Grade Level: 10, 11, 12

Drama I is designed to give students an appreciation of the fundamental components of theater. Participating in performance based activities, reading and analyzing plays and learning basic theater history will be covered.

DRAMA II

A Course Number: 6552

B Course Number: 6553

Length of Course: 2 terms
Credits Earned: ½ credit per term
Grade Level: 11, 12

Drama II provides students with a broader opportunity to participate in the performing arts. Monologues, scenes, reader's theater, reading and analyzing plays and production will be emphasized. The student is required to do specialized research in the theater arts.

DRAMA III

A Course Number: 6554

B Course Number: 6555

Length of Course: 2 terms
Credits Earned: ½ credit per term
Grade Level: 12

Students will learn all phases of production including: script selection, casting, publicity, blocking, props, set, lighting, stage management, performance and set strike. Students will also study demanding pieces from Shakespeare, Ibsen, Checkov, O'Neil and Shaw.

GRADE 9 BAND

A Course Number: 6530

B Course Number: 6531

C Course Number: 6539

Length of Course: 2 terms, 3rd term optional
Credits Earned: ½ credit per term (up to 1.5 credits earned)
Grade Level: 9

Beginning Band is open to any student desiring to learn a band instrument. Emphasis of this course will be placed on the fundamentals of instrumental music. Students will learn sufficient skills to be placed into the Varsity, Symphonic, or Jazz Band class the next school year. The instructor will determine the instrument played by each student.

VARSITY BAND

A Course Number: 6532

B Course Number: 6533

C Course Number: 6570

Length of Course: 2 terms, 3rd term optional
Credits Earned: ½ credit per term (up to 1.5 credits earned)
Grade Level: 10, 11, 12

Students enrolled in this course will study, rehearse, and perform a variety of intermediate level instrumental music including classical, jazz, and popular music. The main focus of this course will be the improvement of individual and group performance skills in the area of instrumental music. The study and application of music theory and music history will also be a large part of this course.

Varsity Band members will be required to attend all rehearsals, competitions and performances for concert and marching band, during the school day and occasionally after school.

Varsity Band members are automatically a part of the marching band, and are encouraged to attend Marching Band Camp and pre-camp training. All costs of camp may be earned at the annual Tag Day fundraiser in May.

SYMPHONIC BAND

A Course Number: 6534

B Course Number: 6535

C Course Number: 6571

Length of Course: 2 terms, 3rd term optional
Credits Earned: ½ credit per term (up to 1.5 credits earned)
Grade Level: 10, 11, 12
Prerequisite: Audition

Students enrolled in this course will study, rehearse, and perform a variety of intermediate level instrumental music including classical, jazz, and popular music. The main focus

of this course will be the improvement of individual and group performance skills in the area of instrumental music. The study and application of music theory and music history will also be a large part of this course.

Symphonic Band members will be required to attend all rehearsals, competitions and performances for concert and marching band, during the school day and occasionally after school.

STAGE/JAZZ ENSEMBLE

A Course Number: 6536

B Course Number: 6537

C Course Number: 6538

Length of Course: 3 terms

Credits Earned: ½ credit per term

Grade Level: 10, 11, 12

Prerequisite: Audition

This course will provide for the teaching of various styles of jazz and popular music in a performance-based environment. Improvisation, music theory and jazz history will also be addressed. This course is also available for those who play guitar, bass and piano. Students will be expected to attend performances.

CHOIR

A Course Number: 6540

B Course Number: 6541

C Course Number: 6546

Length of Course: 2 terms, 3rd term optional

Credits Earned: ½ credit per term (up to 1.5 credits earned)

Grade Level: 9, 10, 11, 12

This course covers a wide variety of choral music while focusing on vocal production, ensemble singing techniques, music reading skills, and music theory. Students are selected from this group to perform in mixed, men's, and women's chorales, and show choir.

Activities include solo and ensemble, concerts, and music festivals. Occasional extra rehearsals are held after school. Attendance at all scheduled performances is required.

SYMPHONIC CHOIR

A Course Number: 6542

B Course Number: 6543

C Course Number: 6547

Length of Course: 2 terms, 3rd term optional
Credits Earned: ½ credit per term (up to 1.5 credits earned)
Grade Level: 9, 10, 11, 12
Prerequisite: Audition

Placement in this mixed-voice group is based upon vocal skill and experience. Students will be exposed to a variety of musical styles, theory, and history. Emphasis will be on performance – school assemblies, seasonal concerts, festivals, competitions, and civic functions. Roseville High School students are selected from this group to perform in mixed, men’s, and women’s chorales, and show choir.

Occasional extra rehearsals are held after school. Attendance at all scheduled performances is required.

MUSIC EXPLORATION I

Course Number: 6548

Length of Course: 1 term
Credits Earned: ½ credit per term
Grade Level: 9, 10, 11, 12

This music course will provide a basic understanding of music vocabulary, theory, and history, with connections of music performed in the past eras to present day. Students will learn to identify and define the basic elements of music, recognize and describe the major characteristics of various styles of music, identify examples of outstanding music from a variety of historic periods and cultures, and recognize and describe the role and influence of music on other areas of life throughout history.

MUSIC EXPLORATION II

Course Number: 6549

Length of Course: 1 term
Credits Earned: ½ credit per term
Grade Level: 9, 10, 11, 12

This one trimester course continues the major themes, influences and personalities that shaped most of western cultural heritage by exploring in detail the history of music. This music course will provide an advanced understanding of music vocabulary, theory, and history, with historical connections of music performed in the past eras to present day. Students will leave this course with knowledge of the great musicians of past and present eras, and will also be able to identify musical styles, and understand music in relation to political and social movements.

HEALTH AND PHYSICAL EDUCATION DEPARTMENT

PHYSICAL EDUCATION I: HEALTH & WELLNESS

Course Number: 8010

Length of Course: 1 term
Credit Earned: ½ credit per term
Grade: 9, 10, 11, 12
Graduation Requirement

Students must take PE I: Health & Wellness or PE I: Health & Aquatics. Students cannot take both.

This course is designed to give students a clear concept of nutrition, effects of substance abuse, social/emotional/personal health, sexual education, disease prevention first aid and CPR.

PHYSICAL EDUCATION I: HEALTH & BASIC AQUATICS

Course Number: 8011

Length of Course: 1 term
Credit Earned: ½ credit per term
Grade: 9, 10, 11, 12
Graduation Requirement

Students must take PE I: Health & Wellness or PE I: Health & Aquatics. Students cannot take both.

This course is designed to give students a clear concept of nutrition, effects of substance abuse, social/emotional/personal health, sexual education, disease prevention first aid and CPR. The course culminates with the basic stroke development and survival skills of the Red Cross aquatics program.

PHYSICAL EDUCATION II: INTRODUCTION TO SPORTS & FITNESS

Course Number: 8012

Length of Course: 1 term
Credit Earned: ½ credit per term
Grade: 9, 10, 11, 12
Graduation Requirement

This course provides every student with a chance to attempt many different activities as well as to learn and encourage physical fitness and a good mental attitude toward physical activity. Sports appreciation, sportsmanship and teamwork are taught as a lifetime goal.

PHYSICAL FITNESS – PROGRESSIVE RESISTANCE I

Course Number: 8020

Length of Course: 1 term
Credit Earned: ½ credit per term
Grade: 9, 10, 11, 12

This course will be an introduction to the use of free-weights and weight machines for strength improvement. Additional activities will include record keeping, building muscular endurance and setting personal strength level records.

PHYSICAL FITNESS – PROGRESSIVE RESISTANCE II

Course Number: 8025

Length of Course: 1 term
Credit Earned: ½ credit per term
Grade: 10, 11, 12

This course will expand on basic weight training techniques to include dead lifts, power cleans and squats. Advanced performance routines including pyramid workouts and repetition records will be used to help students continue to improve from Progressive Resistance I achievement.

PHYSICAL FITNESS – AEROBICS

Course Number: 8030

Length of Course: 1 term
Credit Earned: ½ credit per term
Grade: 9, 10, 11, 12

This course will be an introduction to fitness and muscle toning through the use of high impact, low impact and step aerobics. Additional cardiovascular exercises will include the use of jump ropes, agility and muscle stretching, running, jogging, power walking and the use of free-weights.

RECREATION SWIMMING

Course Number: 8040

Length of Course: 1 term
Credit Earned: ½ credit per term
Grade: 9, 10, 11, 12
Prerequisite: Physical Education I

Activities include water sports, review of basic swimming strokes, water safety, survival swimming and conditioning swimming.

LIFEGUARDING

Course Number: 8050

Length of Course: 1 term
Credit Earned: ½ credit per term
Grade: 10, 11, 12
Prerequisite: 15 years of age by completion of course. 300 yards continuous swim using front crawl with rotary breathing and breaststroke. Retrieval of a 10 lb. brick in 10 feet of water.

This course is to provide entry-level lifeguard participants with the knowledge and skills to prevent, recognize and respond to emergencies and to provide care for injuries and sudden illnesses until EMS personnel arrive and take over. Successful completion will award the student with valid American Red Cross cards in CPR for the Professional Rescuer, First Aid and Lifeguarding.

TEAM SPORTS A

Course Number: 8075

Length of Course: 1 term
Credit Earned: ½ credit per term
Grade: 9, 10, 11, 12

This course includes team related sports activities. The following sports will be covered: flag football, power volleyball, soccer and softball. Sportsmanship and teamwork are taught as well as rules and history of each sport.

TEAM SPORTS B

Course Number: 8078

Length of Course: 1 term
Credit Earned: ½ credit per term
Grade: 9, 10, 11, 12

This course includes team related sports activities. The following sports will be covered: volleyball, floor hockey, basketball, team handball, and softball. Sportsmanship and teamwork are taught as well as rules and history of each sport.

ADVANCED ATHLETICS

Course Number: 8081

Length of Course: 1 term
Credit Earned: ½ credit per term
Grade: 9, 10, 11, 12

Advanced Athletics is a course designed for male and female students who have a desire to improve their performances in interscholastic sports. The course will provide each student with an individualized program for speed, power, strength, agility and flexibility improvement. Pre- and post athletic tests such as vertical and jump, 40 yard dash and shuttle run will be used to monitor improvement

INTEGRATED FITNESS

Course Number: 8035

Length of Course: 1 term
Credit Earned: ½ credit per term
Grade: 11, 12

This course will include the integration of strength, cardio, aquatic, speed and agility training. Students will also learn how to develop their own individual fitness and meal plans. This class is designed for both female and male students who are seriously interested in improving their personal health and fitness.

LIFE MANAGEMENT DEPARTMENT

VOCATIONAL CHILDCARE I

Length of Course: 3 terms
Credits Earned: 1 credit per term (2 Hours)
Grade Level: 11, 12

A Course Number: 6016
B Course Number: 6017
C Course Number: 6021

This course prepares the student for employment or pre-employment in caring for children or working with children in any profession. The students will be engaged in various learning experiences, including hands-on activities with early elementary age children. Planning, leading, and evaluating activities are a main focus of the daily activities in this class. Studying the development of children from preschool thru early elementary is a part of this class.

VOCATIONAL CHILDCARE II

Length of Course: 3 terms
Credits Earned: 1 credit per term (2 Hours)
Grade Level: 12
Prerequisite: Vocational Childcare I

A Course Number: 6018
B Course Number: 6019
C Course Number: 6020

This course continues to prepare students for employment in the childcare field. Focusing on the administrative and instructor duties of classroom teachers these students take on the responsibility of preparing for weekly lab experiences. Demonstrating leadership qualities is an important daily task for these students as they mentor first-year students. The students will lead the children in daily activities.

HOSPITALITY MANAGEMENT I

Length of Course: 3 terms
Credits Earned: 1 credit per term (2 Hours)
Grade Level: 11, 12 (10th with instructor's approval)
Location: LB Williams RMS

A Course Number: 6224
B Course Number: 6225
C Course Number: 6231

Students interested in pursuing a career in the hospitality or service industry learn the fundamentals of preparing for a successful career, customer relations, preparing and serving safe food, and workplace safety. Students are required to work at least one departmental dinner outside of normal school hours. Curriculum based on National Restaurant Association Educational Foundation *ProStart: Year One*.

HOSPITALITY MANAGEMENT II

A Course Number: 6226

B Course Number: 6227

C Course Number: 6232

Length of Course: 3 terms

Credits Earned: 1 credit per term (2 Hours)

Grade Level: 11, 12

Prerequisite: Successful Completion of Hospitality Management I

Location: LB Williams RMS

Students work in a classroom, kitchen and dining room, developing skills that will be required to reach the desired career goal. **Students are required to work a minimum of two departmental dinners outside of normal school hours.** Students prepare for the National Restaurant Association ServSafe Exam. Curriculum based on National Restaurant Association Educational Foundation *ProStart: Year Two*. Students will apply for NRAEF Certificate of Completion.

HOSPITALITY MANAGEMENT III

A Course Number: 6250

B Course Number: 6251

C Course Number: 6252

Length of Course: 3 terms

Credits Earned: 1 credit per term (2 Hours)

Grade Level: 11, 12

Prerequisite: Successful Completion of Hospitality Management I & II

Location: LB Williams RMS

This course is designed to prepare students for a successful career in the hospitality related field, and/or success beyond high school in culinary arts or hospitality management. Students continue to develop managerial skills to plan, lead, organize, and control operations while pursuing career and/or college goals in the hospitality industry. Curriculum is based on the National Restaurant Association Educational Foundation materials and augmented with college materials. Students will complete a final project that fully combines the range of skills that comprise restaurant management. Students operate the L.B. Williams Room as well as work a minimum of two departmental dinners/events outside of normal school hours.

HOSPITALITY MANAGEMENT EXTERNSHIP

A Course Number: 6325

B Course Number: 6326

C Course Number: 6327

Length of Course: 3 terms

Credits Earned: ½ credit per term

Grade Level: 12

Prerequisite: Current or prior enrollment in Hospitality Management

Students will obtain actual on-the-job training for credit and a grade. The training station must be in the hospitality management occupations area and the student must be employed for a minimum average of 10 hours per week. Students are generally selected in January of their junior year and they must secure a Hospitality Management job either through their own resources or through leads provided by the coordinator at the beginning of the school year. Externship students must be enrolled in a Hospitality Management class held at Roseville Junior High School.

MATH DEPARTMENT

ALGEBRA I

A Course Number: 1131

B Course Number: 1132

C Course Number: 1133

Length of Course: 3 terms
Credits Earned: $\frac{1}{2}$ credit per term
Grade Level: 9, 10
Graduation Requirement

Algebra contains an in-depth look at evaluating, solving, and graphing, linear, quadratic, polynomial, and exponential functions through rigorous classroom activities, guided practice, homework, and the aid of technology such as the TI-84 graphing calculator.

ALGEBRA II

A Course Number: 1151

B Course Number: 1152

C Course Number: 1153

Length of Course: 3 terms
Credits Earned: $\frac{1}{2}$ credit per term
Grade Level: 10, 11, 12
Graduation Requirement

Algebra II reviews and develops concepts that are introduced in Algebra I. Throughout trimesters A, B, and C, the following topics are covered: radical expressions and equations, solving polynomials, evaluating logarithms, rational expressions and equations, and the introduction of matrices. Graphing calculators (TI-84) are a must for this course as students will be looking at these items both analytically and graphically.

ALGEBRA ENRICHMENT

A Course Number: 1188

B Course Number: 1189

C Course Number: 1190

Length of Course: 3 terms
Credit Earned: $\frac{1}{2}$ credit per term (elective credit only)
Grade: 9, 10

This class will be offered in addition to the student's regular Algebra class. It will focus on hands-on learning for both concepts and work currently being taught in the student's Algebra class. The credit earned in this class will not count towards math graduation requirement.

ALGEBRA II ENRICHMENT

A Course Number: 1195

B Course Number: 1196

C Course Number: 1199

Length of Course: 3 terms

Credit Earned: $\frac{1}{2}$ credit per term (elective credit only)

Grade: 10, 11, 12

This class will be offered in addition to the student's regular Algebra II class. It will focus on hands-on learning for both concepts and work currently being taught in the student's Algebra II class. The credit earned in this class will not count towards math graduation requirement.

GEOMETRY

A Course Number: 1142

B Course Number: 1143

C Course Number: 1144

Length of Course: 3 terms

Credits Earned: $\frac{1}{2}$ credit per term

Grade Level: 9, 10, 11, 12

Prerequisite: Instructor's Approval for 9th grade

Graduation Requirement

In Geometry, basic rules will be defined to prove some relationships between triangles, parallelograms, circles, and other figures. Geometry includes logical thinking and reasoning necessary to solve everyday problems. Geometry will help students to state and support arguments in a precise and accurate manner. Geometry is useful in achieving success on SAT, ACT, or state exams, is a stepping stone to higher mathematics and is often required for college admittance.

GEOMETRY ENRICHMENT

A Course Number: 1184

B Course Number: 1185

C Course Number: 1191

Length of Course: 3 terms

Credit Earned: $\frac{1}{2}$ credit per term (elective credit only)

Grade: 10, 11

This class will be offered in addition to the student's regular Geometry class. It will focus on hands-on learning for both concepts and work currently being taught in the student's Geometry class. The credit earned in this class will not count towards math graduation requirement.

TRIGONOMETRY AND ANALYSIS AB

A Course Number: 1161

B Course Number: 1162

Length of Course: 2 terms
Credits Earned: $\frac{1}{2}$ credit per term
Grade Level: 11,12
Prerequisite: Algebra II

Students of this course will begin by exploring rational and exponential functions, growth and decay, and logarithmic functions. Limits, summation notation and binomial expansion will also be introduced. At the core of the curriculum will be the study of the six trigonometric functions, including applications involving central angles and their arcs. Students will verify trigonometric identities and solve trigonometric equations. Graphs of the trigonometric functions will be focused upon, including amplitude, period and phase shift. Finally, right triangle trigonometry will be studied, with emphasis on Law of Sines and Law of Cosines.

TRIGONOMETRY AND ANALYSIS C

Course Number: 1163

Length of Course: 1 term
Credits Earned: $\frac{1}{2}$ credit per term
Grade Level: 11,12
Prerequisite: Trigonometry A/B

Students in this course will begin by exploring rational and exponential functions, growth and decay, and logarithmic functions. Limits, summation notation and binomial expansion will also be introduced. At the core of the curriculum will be the study of the six trigonometric functions, including applications involving central angles and their arcs. Students will verify trigonometric identities and solve trigonometric equations. Graphs of the trigonometric functions will be focused upon, including amplitude, period and phase shift. Finally, right triangle trigonometry will be studied, with emphasis on Law of Sines and Law of Cosines.

*Term C is an optional elective-highly recommended for students continuing on in math in high school and college. Students planning to take Calculus must take this course.

CALCULUS

A Course Number: 1171

B Course Number: 1172

C Course Number: 1173

Length of Course: 3 terms
Credits Earned: $\frac{1}{2}$ credit per term
Grade Level: 12
Prerequisite: Trigonometry & Analysis A/B/C

Calculus is the mathematics of change and motion. Calculus will provide a quick review of Pre-Calculus and explore differentiation rules and applications of differentiation. Students will also learn how to use antiderivatives and integration to find functions when rate of change is given.

ADVANCED PLACEMENT CALCULUS

A Course Number: 1174

B Course Number: 1175

C Course Number: 1176

Length of Course: 3 terms
Credits Earned: $\frac{1}{2}$ credit per term
Grade Level: 12
Prerequisite: Trigonometry & Analysis A/B/C

AP Calculus AB is roughly equivalent to a first semester college calculus course devoted to topics in differential and integral calculus. The AP course covers topics in these areas, including concepts and skills of limits, derivatives, definite integrals, and the Fundamental Theorem of Calculus. You'll learn how to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and how to make connections amongst these representations. You will learn how to use technology to help solve problems, experiment, interpret results, and support conclusions.

CALCULATOR MATH

Course Number: 1110

Length of Course: 1 term
Credits Earned: $\frac{1}{2}$ credit
Grade Level: 11,12

Calculator Math is a one-term elective math course designed to explore concepts using the TI-84 Silver Edition graphing calculator. Students will be provided with the graphing calculator but held responsible for its condition (the calculator's value is approximately \$130.00). Topics will include: linear functions, exponential functions, trigonometric functions, right triangle trigonometry, matrices, sequences and series, and permutations and combinations.

PROBABILITY & STATISTICS

Course Number: 1115

Length of Course: 1 term
Credits Earned: $\frac{1}{2}$ credit
Grade Level: 11,12
Prerequisite: Algebra I

Students will become familiar with many of the practices of statistics, such as taking surveys, collecting data, and describing populations. Students will also learn the basic concepts of probability and the use of the counting principle relating to real world events.

SCIENCE DEPARTMENT

BIOLOGY

A Course Number: 4041

B Course Number: 4042

C Course Number: 4043

Length of Course: 3 terms

Credit Earned: $\frac{1}{2}$ credit per term

Grade: 9

Graduation Requirement: Either Accelerated Biology or Biology

This course is a study of plants, animals, and humans with emphasis on their inter-relationships. This course will include laboratory periods utilizing research, models, and audio-visual aids to provide the students with practical experience to correlate with written materials. This course uses the scientific methods to promote inquiry and learning.

Course A - Includes: Cells, respiration, photosynthesis, transformation of matter and energy in cells, cell functions, organic molecules and cell regulation.

Course B – Includes: Cellular reproduction, heredity, genetics, DNA, protein synthesis and genetic variation.

Course C – Includes: Interdependence of living systems and the environment, populations and communities, ecosystems, human impact on ecosystems, classification, theory of evolution, and natural selection.

ADVANCED PLACEMENT BIOLOGY

A Course Number: 4141

B Course Number: 4142

C Course Number: 4147

Length of Course: 3 terms

Credit Earned: $\frac{1}{2}$ credit per term

Grade: 11, 12

This course is designed for those students planning a career in a biology related field. Designed to be the equivalent of introductory college biology, students may earn college credit by examination.

Course A – Includes: Biochemistry, organic molecules, enzymes, cells, fermentation, photosynthesis, cellular respiration.

Course B – Includes: Heredity, evolution, cell reproduction, inheritance patterns, molecular genetics, RNA, DNA, gene regulation, mutation, viral structure and replication.

Course C – Includes: Animal and plant physiology, environmental science, diversity of organisms, classification, ecology, population dynamics, communities, ecosystems, global issues.

PHYSICS

A Course Number: 4121

B Course Number: 4122

C Course Number: 4123

Length of Course: 3 terms
Credit Earned: $\frac{1}{2}$ credit per term
Grade: 10
Graduation Requirement

This course is a study of motion, forces and energy and the role it plays in our society. Students will perform a variety of experiments including the use of computer demonstrations and related equipment for laboratory.

Course A - Includes: Position and time velocity, forces in motion. Newton's Laws, forces in acceleration and magnetism, momentum, gravity, kinetic and potential energy.

Course B – Includes: Wave characteristics, electromagnetic waves, quantum theory of waves, wave reflection, refraction and diffusion, wave interference, wave particles of light.

Course C – Includes: Electrical charges, magnetic force, electromagnetic energy transfer, circuits, Ohm's law, heat, temperature, efficiency, nuclear reactions, mass and energy relationships.

ADVANCED PLACEMENT PHYSICS

A Course Number: 4150

B Course Number: 4151

C Course Number: 4152

Length of Course: 3 terms
Credit Earned: $\frac{1}{2}$ credit per term
Grade: 10, 11,12
Prerequisite: Previous or concurrent AP class
Graduation Requirement

Students will explore concepts such as kinematics; Newton's laws of motion, work, energy and power; systems of particles and linear momentum; circular motion and rotation; oscillations; and gravitation. Students will learn to apply differential and integral calculus in order to solve problems associated with these concepts. Build your understanding and critical thinking skills through inquire-based , laboratory investigations that explore these physics concepts.

CHEMISTRY

A Course Number: 4101

B Course Number: 4102

C Course Number: 4103

Length of Course: 3 terms

Credit Earned: $\frac{1}{2}$ credit per term

Grade: 11 or with Physics in 10th grade

Graduation Requirement: Successful completion of 1.0 credit Chemistry

This course is a study of matter and the many changes that occur. The atomic structure is emphasized with its relationships to bonding and the reactions that result. This course includes laboratory experiments.

Course A – Includes: Properties of matter, kinetics, elements and compounds, mixtures, molecular formulas, nomenclature, states of matter, gas laws, moles, solutions, atomic structure, electron configuration, periodic table, ions and isotopes.

Course B – Includes: Conservation of matter, rates of reactions, chemical changes, balancing equations, equilibrium, phase changes, changes of state, chemical bonds, oxidation/reduction, acids and bases, and organic chemistry.

Course C – Includes: Chemical potential energy, molecules in motion, breaking chemical bonds, electron movement, nuclear stability, energy transfer and conservation, bond energy, chemical reactions.

ADVANCED PLACEMENT CHEMISTRY

A Course Number: 4115

B Course Number: 4116

C Course Number: 4117

Length of Course: 3 terms

Credit Earned: $\frac{1}{2}$ credit per term

Grade: 11, 12

This course provides students with the conceptual framework, knowledge, and analytical skills necessary to deal with the science of chemistry. Designed to be the equivalent of introductory college chemistry, students may earn college credit by examination.

Course A – Includes: Atomic theory, quantum mechanics, atomic and molecular structure, atoms, molecules, and ions stoichiometry, types of chemical reactions and solutions, and gases.

Course B – Includes: Thermodynamics, periodicity, chemical bonding, chemical kinetics, solution chemistry and the laws of phases of matter.

Course C – Includes: Chemical equilibrium, acids and bases, energy, electrochemistry, nuclear chemistry, and organic chemistry.

PHYSIOLOGY & ANATOMY

A Course Number: 4170

B Course Number: 4171

C Course Number: 4175

Length of Course: 3 terms

Credit Earned: $\frac{1}{2}$ credit per term

Grade: 12 or taken with 11th grade Chemistry

Course A – This course is for students who are strongly considering a career in the medical field. This course examines the structures of the human body on a microscopic level. There will be an emphasis on the mechanisms for maintaining chemical balance. This class includes labs, models, microscopes and skeletal materials.

Course B – This course is for students who are strongly considering a career in the medical field. The anatomy of the major body systems is examined. The primary method of learning will be the dissection of a cat.

Course C – This course is for students who are strongly considering a career in the medical field. This course examines how the human body works. Muscle, nerve and brain physiology along with the special senses will be covered.

HUMAN BIOLOGY

Course Number: 4045

Length of Course: 1 term

Credit Earned: $\frac{1}{2}$ credit per term

Grade: 10, 11, 12

This course offers traditional and hands-on approach to the physiology and anatomy of human body systems. Skeletal, muscular, nervous, circulatory and other body topics are covered. Students will be able to dissect animal organs and apply the knowledge to the human body systems.

EARTH SCIENCE

Course Number: 4190

Length of Course: 1 term

Credit Earned: $\frac{1}{2}$ credit per term

Grade: 11, 12

This course is a study of earth materials and natural resources and its ever-changing surface. Concepts include earth plates, the theories of geology, earthquake, volcanoes, the rock cycle, erosion and the relationships between the interior and exterior earth, formation and composition of minerals, the rock cycle, origin and use of building materials and energy resources.

WEATHER

Course Number: 4191

Length of Course: 1 term
Credit Earned: ½ credit per term
Grade: 11, 12

This course is a study of the atmosphere and the water cycle. The students will learn how the oceans and the atmosphere move and transfer energy around the planet. There will also be a study of earth's freshwater system from rivers, lakes and streams to glaciers. The effects of the human impact on the earth in the form of pollutions will also be covered. There will be an understanding of the factors influencing the changing weather and climate. The development of severe weather will be studied.

ASTRONOMY

Course Number: 4015

Length of Course: 1 term
Credit Earned: ½ credit per term
Grade: 11, 12

This course will provide the student with a better understanding of stars and galaxies including our sun and solar system. There will be an emphasis on the origin and age of the solar system, the planets, moons, asteroids, comets and everything else that orbits the sun. Other topics will include past, present, and future missions by NASA, the chemical composition of matter in the solar system and the life cycle of stars, Physical laws of matter motion and forces will be discussed. The planetarium will be used to reinforce class discussion.

ENVIRONMENTAL SCIENCE

Course Number: 4025

Length of Course: 1 term
Credit Earned: ½ credit per term
Grade: 9, 10, 11, 12

This course provides students an opportunity to deal with current and relevant topics in the science of ecology. Topics include global warming, plants, animals and their environment, alternative energy, human populations, toxins, endangered species and pollution.

ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE

A Course Number: 4160

B Course Number: 4161

C Course Number: 4162

Length of Course: 3 terms
Credit Earned: $\frac{1}{2}$ credit per term
Grade: 9, 10, 11, 12

Students will explore and investigate the interrelationships of the natural world, identify and analyze environmental problems, both natural and human-made, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving and/or preventing them. Students will participate in hands-on, laboratory and field investigations to apply scientific principles, concepts, and methodologies in order to better understand our natural systems and to critically think about environmental issues and potential solutions.

SOCIAL STUDIES DEPARTMENT

CIVICS

A Course Number: 2070

B Course Number: 2071

Length of Course: 2 terms
Credit Earned: ½ credit per term
Grade: 11, 12
Graduation Requirement

This is the study of the major characteristics of the American Political System. This course includes an investigation of comparative governments; competing economic systems, analysis of the U.S. Constitution, Congress, the Presidency, the Judicial System, Civil Rights, Political Parties, Elections and Structure of State Government, based on the state and national government/civics standards.

ADVANCED PLACEMENT U. S. GOVERNMENT

A Course Number: 2075

B Course Number: 2076

C Course Number: 2077

Length of Course: 3 terms
Credit Earned: ½ credit per term
Grade: 11, 12

This course includes the study of the concepts of U. S. politics. It will study the institutions, groups, beliefs and ideas that constitute U. S. politics. Near the end of the third term, students will have the opportunity to take the A.P. exam, which will give them an opportunity to gain college credit.

GLOBAL ISSUES

Course Number: 2021

Length of Course: 1 term
Credit Earned: ½ credit per term
Grade: 10, 11, 12

Global Issues is the study and discussion of today's world. Themes discussed will include world cultures, over population, immigration, climate change, human rights, poverty, hunger, AIDS, religion and discrimination. Particular emphasis will be placed on current events and important items in the news.

GEOGRAPHY

Course Number: 2030

Length of Course: 1 term
Credit Earned: ½ credit per term
Grade: 10, 11, 12

Geography is an introduction to the physical elements of geography and the environment in which people live. The focus is on natural processes that create physical diversity on the earth. Major topics are weather and climate, vegetation and soils, landforms, ecosystems, their distribution and significance to the ways in which humans have lived in and modified their environment.

ADVANCED PLACEMENT HUMAN GEOGRAPHY

A Course Number: 2063
B Course Number: 2064
C Course Number: 2065

Length of Course: 3 terms
Credit Earned: ½ credit per term
Grade: 9, 10, 11, 12

Students will learn about the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students will use spatial concepts and landscape analysis to examine human social organization and its environmental consequences and learn about the methods and tools geographers use in their science and practice.

ECONOMICS

Course Number: 2040

Length of Course: 1 term
Credit Earned: ½ credit per term
Grade: 10, 11, 12
Graduation requirement

Students in economics will develop an “economic literacy” essential for citizens to compete in our national and global economy. This economic literacy will provide students with analysis, reasoning, problem solving and decision making skills to help them function as consumers, producers, savers, investors and responsible citizens.

PERSONAL ECONOMICS

Course Number: 2045

Length of Course: 1 term
Credits Earned: ½ credit
Grade Level: 11,12

Students learn how economies and markets operate and how the United States economy is interconnected with the global economy. Additionally, they learn how to navigate financial decisions related to income, budgeting, banking, credit, insurance, financing postsecondary education, taxes, buying/leasing a vehicle and living independently.

Development of financial literacy skills and an understanding of economics principles will provide the basis for responsible citizenship, effective participation in the workforce and lifelong success.

WORLD HISTORY & GEOGRAPHY

A Course Number: 2052

B Course Number: 2053

C Course Number: 2054

Length of Course: 3 terms
Credit Earned: ½ credit per term
Grade: 9, 10
Graduation requirement

This course begins with the early culture of the Asian, African, Muslim, and European worlds. Students will examine and analyze the impact of demographic, technological, environment, political, and economic changes on people, their culture, and their environment.

ADVANCED PLACEMENT WORLD HISTORY

A Course Number: 2080

B Course Number: 2081

C Course Number: 2082

Length of Course: 3 terms
Credit Earned: ½ credit per term
Grade: 12
Prerequisite: Previous or concurrent AP class

This course is an equivalent to an introductory college course in World History. Qualified students will take the AP World History exam for college credit.

MODERN AMERICAN HISTORY – 1970-PRESENT

Course Number: 2055

Length of Course: 1 term
Credit Earned: ½ credit per term
Grade: 11, 12

This course is the study of American History from Watergate and the end of the Nixon era to the present. Major themes such as technology, media, and foreign relations, social and cultural change will be used to focus on such issues as the demise of the Cold War, the impact of modern media and the Internet on society, the rise of the Reagan revolution, America's increased involvement in the Middle East, the Clinton era and America's role in globalization.

U.S. HISTORY & GEOGRAPHY

A Course Number: 2073

B Course Number: 2074

C Course Number: 2078

Length of Course: 3 terms
Credit Earned: ½ credit per term
Grade: 10
Graduation requirement

Course A: This course will cover U.S. History from the opening of the western frontier in the 1870s and follow America through World War I and the Allied Victory in 1918.

Course B: This course will cover U.S. History from the Roaring Twenties, through the Great Depression and the American victory in World War II.

Course C: This course will cover U.S. History from the beginning of the Cold War to 1974 and the end of the Vietnam Conflict. Major themes such as technology, media, and foreign relations, social and cultural change will be used to focus on such issues as the Cold War, the impact of modern media on society, The Civil Rights Movement, the Vietnam War, and America's entry into the modern world.

ADVANCED PLACEMENT U. S. HISTORY

A Course Number: 2060

B Course Number: 2061

C Course Number: 2062

Length of Course: 3 terms
Credit Earned: ½ credit per term
Grade: 11, 12

AP U. S. History is a demanding and rigorous course designed to prepare you to take the Advanced Placement U. S. History exam in early May. This course interprets the evolution of North America from its colonial beginnings through the development of the United States to the present day. Students will study and gain an understanding of the standard themes in U. S. History such as the causation of the Revolutionary, Civil, and World Wars (as well as the other wars America has been involved in), the creation of the Constitution, the emergence of political parties and the changing nature of parties, reform movements (both 19th and 20th century), westward expansion, Reconstruction, Industrialization, and the standard eras of the 20th century.

CRISIS AND CONFLICT IN THE MIDDLE EAST

Course Number: 2035

Length of Course: 1 term
Credit Earned: ½ credit per term
Grade: 11, 12

This course focuses on the 19th and 20th century eras of the Middle East. It will study the impact of European Imperialism, national movements, resulting in the development of modern states, regional and national conflicts and the Islamic response to industrialization. An emphasis will be placed on social and economic development such as gender issues, fundamentalism, oil conflicts and regional conflicts.

MICHIGAN HISTORY

Course Number: 2025

Length of Course: 1 term
Credit Earned: ½ credit per term
Grade: 9, 10, 11, 12

This course will explore the history of Michigan beginning with early civilization and conclude with current events. Primary focus will be given to the development of the Detroit area. Other focuses will be the economy and tourism industry, early colonization, and the special circumstances surrounding Michigan statehood.

ADVANCED PLACEMENT PSYCHOLOGY

A Course Number: 2090
B Course Number: 2091
C Course Number: 2092

Length of Course: 3 terms
Credit Earned: ½ credit per term
Grade: 9, 10, 11, 12
Prerequisite: Previous or concurrent AP class

Students will explore the concepts, theories, perspectives, phenomena and behaviors associated with the subfields and research areas of psychology. Students will analyze the methods psychologists use to study various types of behavior and mental processes and evaluate the validity and significance of their contributions.

WORLD LANGUAGE DEPARTMENT

FRENCH I

A Course Number: 3211

B Course Number: 3212

Length of Course: 2 terms
Credits Earned: ½ credit per term
Grade Level: 9, 10, 11, 12

Course A: The basic structure of the language is covered with attention to vocabulary building and pronunciation. Students will also learn about the culture of France and other French speaking areas of the world. It is highly recommended that students continue with French IB within the next year if possible.

Course B: Students continue their study of the French language and culture with a quick review of French IA. The four skills of speaking, writing, listening and reading continue as a more in-depth study of verbs and grammar will begin to take place.

FRENCH II

A Course Number: 3213

B Course Number: 3214

Length of Course: 2 terms
Credits Earned: ½ credit per term
Grade Level: 9, 10, 11, 12
Prerequisite: French IA & IB

Course A: Students continue their study of the French language and culture with a thorough review of French I. The four skills of speaking, writing, listening and reading continue as students learn many more verbs and grammatical concepts. Students will greatly increase their vocabulary in this class as they learn more about the French speaking world. It is highly recommended that students continue with French IIB within the next year if possible.

Course B: Students continue their second year of French with a brief review of verbs and grammatical concepts. The four skills of speaking, listening, reading and writing continue to improve as the amount of vocabulary and grammar is increased. Students will be doing an in-depth study of Paris, France.

FRENCH II C

Course Number: 3221

Length of Course: 1 term
Credits Earned: ½ credit per term
Grade Level: 9, 10, 11, 12
Prerequisite: French IIB

This supplemental French course is geared towards motivated French students who have completed French IIB and are looking to improve basic communications skills. Emphasis will be on speaking, but listening, reading and writing will also be strengthened. Skits, dialogues, plays, short stories, and group projects will be the focus of this course.

FRENCH III

A Course Number: 3215

B Course Number: 3216

Length of Course: 2 terms
Credits Earned: ½ credit per term
Grade Level: 9, 10, 11, 12
Prerequisite: French IIA & IIB

Course A: The third year continues the study of the French language structure with special attention to more difficult concepts. Oral proficiency and composition skills are strengthened as a variety of skits and dialogues are produced. Short stories are read and discussed as students gain an increased proficiency with the language. It is highly recommended that students continue with French IIIB within the next year if possible.
Course B: Continued study of the French language structure with special attention to more difficult concepts. Students will be able to converse in a variety of situations.

FRENCH III C

Course Number: 3222

Length of Course: 1 term
Credits Earned: ½ credit per term
Grade Level: 9, 10, 11, 12
Prerequisite: French III B

This advanced French course is aimed towards motivated French students who have completed French IIIB and are looking to improve their overall skills. Emphasis will be on speaking, but listening, reading and writing will also be strengthened. Skits, dialogues, plays, short stories, and group projects will be the focus of this course.

FRENCH IV

A Course Number: 3217

B Course Number: 3218

Length of Course: 2 terms
Credits Earned: ½ credit per term
Grade Level: 10, 11, 12
Prerequisite: French IIIA & B

Course A: The fourth year continues the study of the French language with a strong emphasis in grammar and vocabulary review. Students will increase their proficiency in speaking, reading, writing, and listening comprehension.
Course B: In this course, students will learn new vocabulary and grammar skills through literature, history, and culture. Students will continue to increase their oral and written proficiency in a variety of ways.

FRENCH IV C

Course Number: 3223

Length of Course: 1 term
Credits Earned: ½ credit per term
Grade Level: 10, 11, 12
Prerequisite: French IV B

In this final trimester of French IV, students will continue to increase their proficiency in the target language in reading, writing, speaking and listening.

SPANISH I

A Course Number: 3321

B Course Number: 3322

Length of Course: 2 terms
Credits Earned: ½ credit per term
Grade Level: 9, 10, 11, 12

Course A: The basic structure of the language is covered with attention to vocabulary building and pronunciation. Students will also learn about the culture of Spain and other Spanish speaking areas of the world. It is highly recommended that students continue with Spanish IB within the next year if possible.

Course B: Students continue their study of the Spanish language and culture with a quick review of Spanish IA. The four skills of speaking, writing, listening and reading continue as a more in-depth study of verbs and grammar will begin to take place.

SPANISH II

A Course Number: 3323

B Course Number: 3324

Length of Course: 2 terms
Credits Earned: ½ credit per term
Grade Level: 9, 10, 11, 12
Prerequisite: Spanish IA & IB

Course A: Students continue their study of the Spanish language and culture with a thorough review of Spanish I. The four skills of speaking, writing, listening and reading continue as students learn many more verbs and grammatical concepts. Students will greatly increase their vocabulary in this class as they learn more about the Spanish speaking world. It is highly recommended that students continue with Spanish IIB within the next year if possible.

Course B: Students continue their second year of Spanish with a brief review of verbs and grammatical concepts. The four skills of speaking, listening, reading and writing continue to improve as the amount of vocabulary and grammar is increased.

SPANISH II C

Course Number: 3331

Length of Course: 1 term
Credits Earned: ½ credit per term
Grade Level: 9, 10, 11, 12
Prerequisite: Spanish IIB

This supplemental Spanish course is geared towards motivated Spanish students who have completed Spanish IIB and are looking to improve basic communications skills. Emphasis will be on speaking, but listening, reading and writing will also be strengthened. Skits, dialogues, plays, short stories, and group projects will be the focus of this course.

SPANISH III

A Course Number: 3325

B Course Number: 3326

Length of Course: 2 terms
Credits Earned: ½ credit per term
Grade Level: 9, 10, 11, 12
Prerequisite: Spanish IIA & IIB

Course A: The third year continues the study of the Spanish language structure with special attention to more difficult concepts. Oral proficiency and composition skills are strengthened as a variety of skits and dialogues are produced. It is highly recommended that students continue with Spanish IIIB within the next year if possible.

Course B: Continued study of the Spanish language structure with special attention to more difficult concepts. Students will be able to converse in a variety of situations.

SPANISH III C

Course Number: 3332

Length of Course: 1 term
Credits Earned: ½ credit per term
Grade Level: 9, 10, 11, 12
Prerequisite: Spanish III B

This advanced Spanish course is aimed towards motivated Spanish students who have completed Spanish IIIB and are looking to improve their overall skills. Emphasis will be on speaking, but listening, reading and writing will also be strengthened. Skits, dialogues, plays, short stories, and group projects will be the focus of this course.

SPANISH IV

A Course Number: 3327

B Course Number: 3328

Length of Course: 2 terms
Credits Earned: ½ credit per term
Grade Level: 10, 11, 12
Prerequisite: Spanish IIIA & B

Course A: The fourth year continues the study of the Spanish language with a strong emphasis in grammar and vocabulary review. Students will increase their proficiency in speaking, reading, writing, and listening comprehension.

Course B: In this course, students will learn new vocabulary and grammar skills through literature, history, and culture. Students will continue to increase their oral and written proficiency in a variety of ways.

SPANISH IV C

Course Number: 3333

Length of Course: 1 term
Credits Earned: ½ credit per term
Grade Level: 10, 11, 12
Prerequisite: Spanish IV B

In this final trimester of Spanish IV, students will share their language skills with others as they teach Spanish to local elementary students. Students will continue to increase their proficiency in the target language in reading, writing, speaking and listening.

FRENCH/SPANISH INDEPENDENT STUDY

A Course Number: 3340

B Course Number: 3341

C Course Number: 3342

Length of Course: 3 terms
Credits Earned: ½ credit per term
Grade Level: 10, 11, 12
Prerequisite: Spanish or French IV

This independent study course is designed for the advanced students in World Language. The course is for students who plan on continuing their World Language education at the college level. Students will build upon their skills through increased practice of the spoken language. Opportunities will be provided to develop written and oral skills.

SPECIAL PROGRAMS

ADVISORY

A Course Number: 0600

B Course Number: 0601

C Course Number: 0602

Length of Course: 3 terms

Credit Earned: 1/4 credit per year

Grade: 9, 10, 11, 12

This program aims to nurture the whole student and foster a positive relationship between students and adults at Roseville High School. Students will build relationships with adult advisors and their peers in order to support each other socially and academically.

A Course

This course will cover classroom collaboration skills, knowledge of basic school procedures, self-efficacy skills and awareness skills.

B Course

This course will cover goal setting, goal attainment, self reflection, relationship building, and post-secondary preparation skills

C Course

This course will cover self-motivation, positive mindset, conflict resolution, and post-secondary preparation skills.

COLLEGE AND WORKFORCE READINESS

Course Number: 0500

Length of Course: 1 term

Credit Earned: 1/2 credit per term

Grade: 11

Prerequisite: None

The is a one term course focusing on information, materials, strategies, and test taking techniques related to the Math, Science and English Language Arts portions of the ACT Test and the Work Keys assessment. Students will be able to analyze and identify personal strengths and weaknesses related to these content areas. Students will become more skilled in using graphing calculators, online testing, and college entrance exam formatted questions. To enhance their performance on the ACT/MME Test, improved writing, reading, grammar, and problem solving skills will be a main focus. Students will also identify workforce strategies, job profiling, examine required skill sets, task analysis, and set goals. Campus and work site visitations maybe arranged.

COMMUNITY VOLUNTEER SERVICE

A Course Number: 8501

B Course Number: 8502

C Course Number: 8503

Length of Course: 3 terms

Credit Earned: ½ credit per term

Grade: 9, 10, 11, 12

Approval must be obtained from the principal and parent before community service hours begin.

Community service gives students an opportunity to develop personal responsibility, interpersonal skills and exposure to possible careers as well as providing help to others.

A maximum of one (1.5) credit can be earned towards high school graduation through community service. Students must secure their own service position. Service must be done as a volunteer, it cannot be a paid position. The student must work a minimum of 50 hours of service to earn one-half (.05 credit). Community Service forms are available in the counseling office.

The following sites are examples of appropriate placement: Salvation Army, soup kitchens, summer camps, hospitals, Parks & Recreation Departments, schools, senior citizen care, or charitable organizations.

DUAL ENROLLMENT

Students are allowed to attend courses at local colleges or universities while attending their own high school. This is called “dual enrollment” (see page X).

ADDITIONAL CAREER AND TECHNICAL PROGRAMS

The Southeast Macomb Center and Technical Education Consortium is a cooperative effort between schools. This effort makes available additional and technical programs to Roseville students. Students enrolled in these programs must use school bus transportation while traveling to these programs.

HEALTH OCCUPATIONS

1A Course Number: 9651
1B Course Number: 9652
1C Course Number: 9655
2A Course Number: 9653
2B Course Number: 9654
2C Course Number: 9656

Length of Course: 1 Year, 2 Semesters
Credits Earned: 1 Credit per semester (2 hours)
Grade Level: 11, 12
Prerequisite: Application essay must be submitted
Location: Lake Shore High School

Health Occupations is designed for students who will be pursuing a medical career. Guest speakers will enhance the understanding of training required and duties of several medical professions. Students will learn how to take vital signs and will also learn CPR and First Aid skills.

The classroom is equipped like a clinic: role-playing exercises are performed with an emphasis on physical therapy, nurse aide, medical assistant, and dental assistant skills. However, exploration into a multitude of careers are explored. Employability skills are also learned.

DENTAL ASSISTING

A Course Number: 9601
B Course Number: 9602
C Course Number: 9605

Length of Course: 1 Year, 2 Semesters
Credits Earned: 1 Credit per semester (2 hours)
Grade Level: 11, 12
Prerequisite: Application essay must be submitted
Location: Lake Shore High School

This course prepares students for employment as a dental assistant. Skills learned will include dental terminology, dental anatomy, instrumentation, sterilization of instruments, charting oral conditions, and mixing dental materials. Second year students will continue classroom and lab activities in conjunction with a work-site placement in a dental office.

